MODELING THE BEHAVIOR OF LABOR MIGRATION IN THAILAND: DOES THE WAGE PLAY AN IMPORTANT ROLE IN LABOR MIGRATION

by

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Abstract

This dissertation uses individual-level data from Thailand's Labor Force Survey to explain labor migration, with special attention to the effect of wage rates. By using the nested logit model, and dividing the provinces into four regions, the model fits well with regard to the flexibility of independent irrelevant alternatives for migrants who move to a province to look for a job. The results show that wage rates have the largest effect of all factors on labor migration decisions. A 1% increase in wages in a province leads to an average increase of 3% in the probability of single male migrants in agricultural and non-agricultural sectors moving to such a province to find a new job. Nonetheless, in a struggling economy, food and housing expenses become dominant factors. For single male migrants in the agricultural sector moving to a province, the effect of rice prices on that decision is statistically insignificant. The effect of the non-agriculture sector wage on labor migration was significant, positive, and relatively large. If there is a 1% increase in non-agriculture sector wages of a province, it raises the probability of single male migrants migrating to that province by 4.63%, an impressively elastic response. This research also found that agricultural workers had zero benefit in terms of their wage rate from raising rice prices, and thus raising prices of agricultural products did not induce workers to move to the agricultural sector.

Lay Abstract

This research aimed to explain Thai labor migration, with special attention to agricultural workers, and to clarify the role of wages. By using the location choice model, this research emphasized that awareness of choice similarity need to be well clarified. The results from the location choice model were also employed to prove that the policy of raising the agricultural prices did not induce workers in to agriculture. Accordingly, there are three contributions of this research as follows: to enrich the understanding of labor migration, provide a practical example of using the location choice model, and to assists policy makers in choosing the appropriate policy.

Preface

This dissertation is original, unpublished, independent work by the author, Suvaporn Phasuk.

Table of Contents

List of Tables

List of Figures

Glossary

Migrant is a worker who decided to move to a province and live there less than or equal to 12 months.

The agricultural sector are groups of following industries: crop production, animal production, hunting, forestry, logging, fishing, aquaculture and related service activities including post-harvest activities. This definition is provided by National Statistical Office of Thailand using the classification from the third version of the Thailand Standard Industrial Classification (TSIC) 2009.

The non-agricultural sector are groups of industries that are excluded from the agricultural sector. Those industries are mining and quarrying, manufacturing, electricity, gas, water supply, construction, wholesale and retail trade, repair of motor vehicles, motorcycles, personal and household goods, hotel and restaurants, transport, storage, communications, financial intermediation, real estate, renting activities, public administration, compulsory social security, education, health and social work, private households, social and community/personal service activities. This definition is provided by National Statistical Office of Thailand using the classification from the third version of the Thailand Standard Industrial Classification (TSIC) 2009.

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Chapter 1: **Introduction**

There is a long-term trend in Thailand for migration to occur from agricultural or rural areas to industrial urban areas. Most empirical studies (Amare, Hohfeld, Jitsuchon, & Waibel, 2012; Gordon F. De Jong, Richter, & Isarabhakdi, 1996; Yang, 2004) indicate this migration is induced by the higher urban wage that attracts rural Thai workers to move. This follows the pattern predicted by Harris and Todaro (1970) in their classic model which showed rural-to-urban migration continuing as long as the expected urban wage exceeded the real agricultural wage. However, it has also been observed in recent years that the migration of Thai workers has shown a "reverse migration" from urban to rural areas that is inconsistent with the regional wage patterns.

If we begin to consider the relation between labor migration and wage through the lens of Harris and Todaro (1970), several internal migration articles have shown that an increase in the wage at destination induces workers to migrate (Gabriel, Shack-Marquez, & Wascher, 1993; Gordon F. De Jong et al., 1996; Greenwood, 1969; Nivalainen, 2004). On the other hand, a recent empirical study employed primary data collected from three villages in the Northeast of Thailand to establish that failing to invest in education drives workers to find jobs in urban areas (Rigg & Promphaking, 2014). This study emphasized that migrants chose to leave rural areas because of their personal preferences regardless of the urban wages. In other words, the relatively young workers preferred to live in urbanized areas. Some previous articles chose to focus on personal characteristics and other variables, e.g. social contacts, information, distances, and population (T. D. Fuller, Lightfoot, & Kamnuansilpa, 1985; Junge, Revilla Diez, & Schätzl, 2015; van Lottum & Marks, 2012). Dustmann & Kirchkamp (2002) found that a high wage at the destination induced short-term

migration and reduced the migration rate over time. Nguyen, Raabe, & Grote (2013) argued that economic activity in the non-agricultural sector was an important factor to induce worker to migrate to rural areas. Given these studies, there seem to be many factors influencing migration decisions which leaves us with the question: How important is the role played by the wage labor migration decisions, and are there other economic or non-economic factors that dominate the role of wages?

In Thailand, there is mixed evidence for the argument that migrants move from rural to urban areas in order to gain a relatively high wage is suspicious. The densest urban areas are found in the Center region. The capital city is located there and it is surrounded by industrial areas that are more attractive to workers. Meanwhile, the rural areas consist of the North, Northeast, and South regions where informal or agricultural employment with its relatively low wages is more common. Figure 1-1 shows the ratios of in-migrants in the North/Northeast/South to the Center compared to the ratios of average monthly wages of in-migrants in the North/Northeast/South to the Center during 2002 – 2012. Overall, the numbers of in-migrants to the Center were higher than the other regions providing the ratios within a unit rage except for the Northeast in 2011 and 2012. Likewise, the average monthly wages in the Center were undoubtedly higher than the other regions except for the South in 2008 and 2011. The high ratio of in-migrants was expected to be a response to the high ratio of average monthly wages; however, this positive relationship was rarely found. According to the Labor Force Survey, in 2002, the average monthly wage of in-migrants in the Center was 53%, 61%, and 14% higher than the North, Northeast, and South respectively. This might result in the number of in-migrants to the Center was 93%, 35%, and 146% higher than the North, Northeast, and South respectively. However, in 2011, the number of in-migrants in the

Northeast was 24% higher than to the Center even though the average monthly wages in the Center was 43% higher than the Northeast. In this case, the destination with the relatively high wage seemed to not attract workers to migrate.

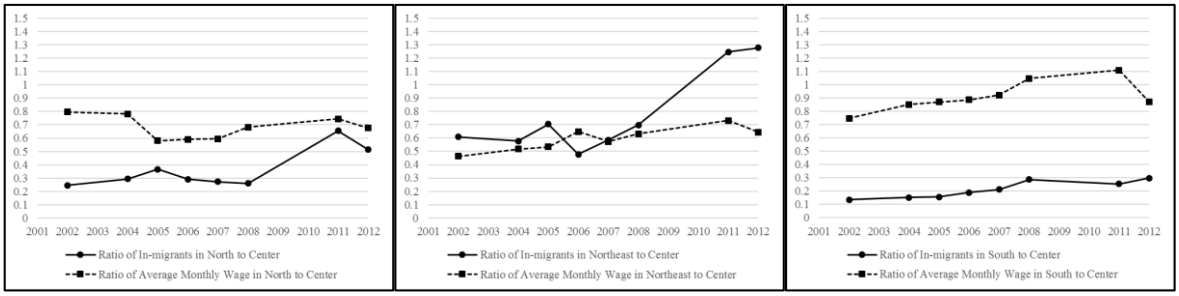

Figure 1-1 The Ratios of In-migrants and Average Monthly Wages in North/Northeast/South to Center
Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)
Note: a ratio of in-migrants in the North/Northeast/South to the Center is number of in-migrants moving to the North/Northeast/South divided by to the Center, regardless of their original region; a ratio of average monthly wage in the North/Northeast/South to the Center is the average monthly wage of all in-migrants in the North/Northeast/South divided by the average monthly wage of all in-migrants in the Center.

Based on the data, this complicated migration pattern might have been because the wages did not reflect the living costs, or account for crisis situations such as violent protests, a military coup, and flooding. Another possible reason was that better development of infrastructure facilities in the Northeast rural areas had decentralized firm and factory locations to create non-agricultural jobs in rural areas. As a result, I closely considered inter-sectoral migration in addition to traditional geographical migration.

During 2005-2011, inter-sectoral migration data showed that 5% and 70% of total migrants were mobile within the agricultural and non-agricultural sectors, respectively, while the percentages of total migrants were 15% for moving from agricultural to non-agricultural sectors and 10% for the opposite direction. The average monthly wage of employees in the non-agricultural sector was

66% higher than the agricultural sector during 2002-2012; therefore, unsurprisingly, the non-agricultural sector was more attractive to workers. Accordingly, working in either the agricultural or non-agricultural sectors was another determinant of labor migration, and thus, this research took these two sectors into account.

Migration was occurring both regionally and across sectors. When workers chose a destination, it was one of the 76 provinces[1] in Thailand. The probability choice model was thus introduced. While some previous articles employed the multinomial and conditional logit model to study place-to-place migration (Davies, Greenwood, & Li, 2001; Linneman & Graves, 1983; Pavlos S Karnaroglou & Mark R Ferguson, 1998; Pellizzari & De Giorgi, 2009), this research focused on the nested logit model (NLM) because this model allowed an existence of correlation between choices (Ben-Akiva & Lerman, 1985). In simple terms, the choices could be grouped in accordance with their similarities. A number of influential studies have enriched our understanding of how to not only use the NLM, but also how to correct the self-selection bias in an estimation of counterfactual wages (Bertoli, Fernández-Huertas Moraga, & Ortega, 2013; Dahl, 2002; Falaris, 1987).

This research aimed to explain Thai labor migration between regions considering the expected industry at the destinations. The research emphasized the role of the wage and used this role to analyze the potential effect of agricultural and non-agricultural factors on labor migration. It also

[1] Thailand has 77 provinces since 2011. In order to have consistent data across sample periods, this research focused on 76 provinces.

provided the estimation of a location choice model separated into three groups of migrants with respect to the different purposes for migration. This utilized the individual-level data of workers and also the provincial-level data of economic indicators collected by the National Statistical Office of Thailand. The primary methodology combined Falaris's (1987) and Dahl's (2002) approaches to select the location choice model that included the estimated wage and allowed for self-selection to vary across destinations.

To begin, *Chapter 2: The Economics of Labor Migration* provides a literature review as guidance for regarding the determinant of labor migration as well as an appropriate model. This chapter also reveals the theoretical underpinnings of the research that follow the concepts of Stillwell and Congdon (1991), and Mueller (1982) who indicate that a worker's preference will decide a destination, and variation in those preferences depend on personal characteristics, choice attributes, and migratory costs.

Chapter 3: The History of Labor Migration in Thailand discloses that the main data source is the Labor Force Survey (2002, 2004-2008, and 2011-2012) conducted by the National Statistical Office of Thailand. The individual-level data consist of gender, age, marital status, educational attainment, current working industry, and the wage. Provincial-level data include employment rates, distances, and food and housing expenses. All these data are analyzed to determine their descriptive statistics in order to clarify their potential effects on labor migration for each group. Given that a migrant is a worker who moves from one province to another during the 12 months prior to October of each sampling year, this research divides migrants into three groups: those who are looking for a job, those who return to their hometowns, and those who want to build their own

businesses. The last part of this chapter explores times of crisis in Thailand as another possible reason for a reduction and variation in labor migration over the sample period.

Chapter 4: Modeling the Labor Migration in Thailand describes the nature of NLM and its econometric implementation. As mentioned earlier, the NLM allows unobserved characteristics to be correlated among choices. In Thailand, according to the division system of the National Statistical Office, there are four regions: Center, North, Northeast, and South. By using the Center as a base category, the model is able to clarify how personal characteristics affect labor migration in the sense of moving from the Center to other regions. The elasticities also serve as another tool to analyze a change in probability of in-migration with respect to a change in wage or provincial attributes (employment rates/distances/food expenses/housing expenses).

Chapter 5: The Result of Modeling the Labor Migration for Those Looking for a Job focuses on the estimation of the first group. The NLM performs well to explain labor migration for this group. Next, the migrants' wages are regressed on the agricultural and non-agricultural factors including rice prices, and agricultural and non-agricultural gross provincial products to explain the effect of agricultural and non-agricultural factors on labor migration. By assuming these factors affect labor migration through wages, ordinary least squares estimator is employed and some mathematical steps are required as shown in *Chapter 6: The Effect of Agricultural/Non-agricultural Factors on Labor Migration*.

Chapter 7: The Results of Modeling the Labor Migration for Those Moving Back to Their Hometowns and Those Moving to Create Their Own Businesses elaborates on the estimation of

the second and third groups, respectively. There is a high variation in the choice model of the second group. However, for the third group, the model fits the data well. This chapter is followed by *Chapter 8: Conclusion*.

Briefly, the main question of this research was how to explain Thai labor migration, with special attention to agricultural workers, and to clarify the role of wages. This was the first empirical study that used individual data to interpret inter-regional labor mobility. The data were also employed to postulate the effect of agricultural and non-agricultural factors, i.e. rice prices, on labor migration to investigate how the policy of raising the agricultural prices affected labor migration, given that landowners generally are the primary beneficiaries from such a policy, not workers. As a result, this research enriches the understanding of labor migration within the literature and also assists policy makers in choosing the appropriate policy in order to achieve the goals of a higher standard of living for Thai people, especially in agricultural sector.

Chapter 2: **The Economics of Labor Migration**

2.1 Literature Review

There were two questions considered in this research. The first question was, what are the important factors of labor migration? To be specific, this research focused on the determinants of labor migration domestically. The second question was, does wage have an important role in labor migration? To consider the first question, I began to review empirical studies that focused on internal migration decisions. Regarding the determinants of migration, Mueller (1982) pointed out that studies relied on two alternative concepts. The first concept was that inter-regional migration was related to government policies, distances, and populations. This has also been known as the gravity model and is mostly used for aggregate migration. The second concept was from neoclassical economics and mentioned by Hicks (1963): labor migration depends on the net economic advantages, especially the wage differentials between regions. Ehrenberg & Smith (1996) specified the advantages as the present value of net benefits that originates from the difference between the increment in utility from getting a new job and the decrement in utility from changing a residence. The decrement consists of direct and psychic costs, i.e. information-seeking costs, moving costs, and positive and negative external costs. In terms of the net benefit, if workers decide to move permanently, the discounted value of lifetime net benefit should be considered at the time of making a decision to migrate (Bartel, 1979; Sjaastad, 1962).

According to the aforementioned concept, the determinants of labor migration depended on factors related to benefit and cost of migration. Phan and Coxhead (2010) used the data on Vietnamese migration during 1980s and 1990s and found that the significant factors of the interprovincial

migration were average incomes and distances that clearly represented the benefit and cost respectively. This was similar to the result of Amare et al. (2012) in Thailand. If a household had a lower total income, there was a higher probability of out-migration from Buriam, Nakhon Phanom, and Ubon Ratchathani where agricultural activities were more dominant. Likewise, if the income of migrants was higher, they were less likely to in-migrate to rural areas or their hometowns (Gordon F. De Jong et al., 1996; Junge et al., 2015). Regarding to the cost of migration, Sjaastad (1962) showed that the incremental cost of migration was associated with additional distance between origin and destination places. Schwartz (1973) argued that the distance had a negative effect on internal migration across the United States. In Thailand, the migration between a workers' hometown and Bangkok would decrease by 12% if there was a 10% increase in distance between those provinces (Yang, 2004). The study of Yamauchi & Tanabe (2008) also found that the networks of migrants from the same origins increased the employment probability of new migrants in Bangkok.

In addition to incomes and distances, these studies also found that personal characteristics such as age, marital status, gender and educational attainment significantly affected the migration decision of labor (Amare et al., 2012; Gordon F. De Jong et al., 1996; Junge et al., 2015; Nivalainen, 2004). This availability of microdata allowed researchers to better measure migration behavior (Greenwood, 1985).

Another factor that might have impacted on the benefit of migration was the (un)employment rate. The number of available jobs at a destination was a vital factor for job-searching migrants. In the words of Fields (1975), "job hiring in the modern sector, more than the number of jobs, which

primarily influences workers' locational decisions" (p.186). The well-known Harris-Todaro model (1970) also mentioned the employment rate as an explanatory variable for a wage rate. In work on the net benefit of migration, many empirical studies focused on incomes, or wages, and employment rates (Gabriel et al., 1993; Gordon F. De Jong et al., 1996; Greenwood, 1969; Nivalainen, 2004).

The second question of this research was: does wage have an important role in labor migration? The studies mentioned in the previous paragraph have proven that wage did play an important role in the labor migration. The model of Harris & Todaro (1970) designated the wage differential between manufacturing and agricultural sectors as the main cause of labor migration. The study of inter-provincial migration of workers in Thailand argued that a 10% increase in wage differential resulted in an 8.7% increase in migration from hometown to Bangkok (Yang, 2004). However, the empirical models of migration always showed a source of self-selection bias regarding to the wage differentials (Bertoli et al., 2013; Borjas, 1987). This was because relatively high educated workers were more likely to out-migrate from their hometowns, and thus, migrants may not have be drawn randomly from an original place. Lanzona's (1998) results proved that there was a self-selected bias in the wage estimation of workers, and thus, the ordinary least squares underestimated the wage in Filipino rural communities. Hence, correcting of the empirical model to control for self-selection bias was required. A study of internal migration in the United States found that the wage differentials between states was still a significant determinant of migration after adjusting the model to account for the self-selection bias (Borjas, Bronars, & Trejo, 1992). Moreover, computing a counterfactual equation to account for different skills that vary across genders and

educational levels was also necessary for improving the measurement of wage as a determinant of labor migration (Bertoli et al., 2013).

Another important step of this research was finding an appropriate model to explain the determinants of labor migration with special attention to wages. Based on the behavior of labor migration, a worker chooses one choice among various choices. This introduces the probabilistic choice models including the conditional logit model (CLM), the multinomial logit model (MLM), and the nested logit model (NLM). The main difference between these three models is the types of independent variables. The CLM requires the alternative-specific regressors that do not vary across individuals. On the contrary, the MLM requires the individual-specific regressors that do not vary across alternatives. In other words, the CLM would be used if alternatives' characteristics are the determinants of choice and the MLM would be used if the determinants rely on individuals' characteristics (Davies et al., 2001; Hoffman & Duncan, 1988).

Pellizzari and De Giorgi (2009) used the CLM to study welfare migration in Europe between 1970 and 1994. The estimation of migration used unemployment rates, wages and welfare benefits as explanatory variables. These variables represented attributes of destination, and thus, they were alternative-specific variables. Nonetheless, because individual characteristics might be sensitive to unobservable conditions of the labor market, the authors used the interaction terms. These terms were the dummies of personal characteristics multiplied by alternatives' attributes, to change individual-specific regressors, i.e. age and gender, into alternative-specific regressors.

Linneman & Graves (1983) studied the effect of housing demand and job searching on migration in Michigan in 1937. In this case, the study used family characteristics, such as gender, education,

and experience in the current job to be proxy variables for housing demand and job searching, and thus, the MLM was more appropriate in their study.

The limitation of CLM and MLM was the independent of irrelevant assumption (IIA). The common example of the IIA is the blue and red busses (Cameron & Trivedi, 2005; Maddala, 1983; Wooldridge, 2010). If an individual must pick from among three choices, a car, a blue bus, and a red bus, assuming the buses have the same aspects except color, this might have little impact on the probability of choosing the car. The CLM and MLM assume all alternatives are irrelevant and independent, and thus, the probability of choosing will be 33.33%. Nevertheless, if the busses are different in color only, the probability of choosing a car and a bus will be 50% and the probability of choosing blue and red busses will be 25% each. Ben-Akiva & Lerman (1985) argued that the buses share unobserved characteristics that are reasonably assumed to be relevant and dependent choices. This relaxed the IIA and led us to the NLM.

The NLM allows researchers to have both types of regressors, alternative- and individual- specific regressors, and to overcome the restriction of IIA. Falaris (1987) used the NLM to study migration in Venezuela and developed Lee's approach (1983) to correct the selectivity biasness. The 24 states were grouped into 7 regions that generated a two-level nested logit model: the top level explains the probability of choosing a region and the bottom level explains the probability of choosing a state given a chosen region. There were two estimations of the NLM in this study. The first one was used to correct the self-selection bias in the wage estimation, and the second one was used to estimate the effect of wage on migration. The ultimate result showed a positive effect of wage on migration. Bertoli, Fernández-Huertas Moraga, & Ortega (2013) found a similar result in

international migration among Ecuador, the U.S., and Spain using a different approach to correct the self-selection bias. They adapted the approach of Dahl (2002) to create a counterfactual wage by assuming people with the same gender, age, educational level, and other relevant aspects had the same wages and tastes on average. By using the individual-level data and the NLM, these two studies concluded that it was possible that wage had an important role in labor migration. Ortega & Peri (2013) used the national-level data and the NLM, and also found that the income per capita of the destination country had a significant effect on immigration in OECD countries.

Regarding the counterfactual wage estimation with selectivity, Lee's (1983) and Dahl's (2002) approaches were similar in terms of using the probability framework to correct the self-selection bias. Lee (1983) used the discrete choice model to explain the unobserved similarities of choices that affect the expected wage of migrants in each location. On the other hand, Dahl (2002) further developed Lee's procedure by generating cells that assumed individuals who had similar characteristics would also have the same earnings and tastes on average. He then calculated the probability as the cell fractions, i.e. the number of migrants within the same cell moving specifically from a location to another location divided by the total number of migrants. The probabilities were be added in the form of polynomial function as an explanation of N^{th} prior choices.

All the mentioned articles enriched the understanding of labor migration. The possible determinants lay in the benefits and cost of migration. The benefits broadly covered expected earnings and relevant factors that raised an opportunity to achieve the expected earnings, i.e. employment rates at the destination. The cost of migration consisted of direct and indirect costs.

The direct cost was measured by the moving cost that directly relates to distance between origin and destination places. The indirect cost was a psychic cost that was hardly measured, and thus, it was an unobservable factor.

Nonetheless, the individual-level data that has personal characteristics enabled researchers to cover unobservable factors that affected both benefit and cost of migration. For example, the different skills across genders, educational attainments, and ages resulted in the self-selection bias regarding to an earning estimation. These characteristics were also accountable for migration decision. Since individuals chose an alternative that served them a utility maximization, they should have balanced the positive benefit against a utility loss in migration. Thus, the personal characteristics improved the predictive model of migration by reducing unobserved variations.

Regarding the model of migration, this research focused on the NLM to specify the determinants of labor migration in Thailand due to the flexibility of the IIA. To clarify the role of wage in labor migration, correcting the self-selection bias had to be considered. This research combined Falaris's (1987) and Dahl's (2002) approaches to come across the self-selected migrants in the wage estimation. Details of this are provided in the section on econometric implementation. The next section describes an economic theory of migration in order to exhaustively specify the possible determinants of labor migration

2.2 An Economic Theory of Labor Migration

The previous section explored the concept of migration through the empirical studies that focused on the determinants of migration in general. This section concentrates on labor migration using studies that follow the theories of Stillwell & Congdon (1991) and Mueller (1982).

According to Stillwell & Congdon (1991), migration had no distinction between micro and macro theory. The micro theory focused on the individual's decision. They might have begun with two choices: staying in a current residence or moving to another one. Once they decided to move, the choice of destination were considered. The influences on the decision were categorized into three groups. The first group was personal characteristics such as gender, age, marital status, and educational attainment. The second group was the characteristics of the destination including local economies and local amenities. The local economies included the level of living costs, housing costs, and relative wage rates. The examples of local amenities were clean air, school quality, and crime rates (Bayer, Keohane, & Timmins, 2009). The last group of the influences was the labor market conditions such as employment rates and relevant factors that raise the probability of being employed. Stillwell & Congdon (1991) also pointed out that the distance between origin and destination locations was another influence of labor migration. Generally, the longer distance moved related to a change in workplace or job.

The macro theory focused on the aggregate migration with labor market conditions. This raised a deliberation of the casual relation between migration and population: the number of available jobs induced workers who were looking for work, or the initial flow of migration created new jobs due to an increase in economic activities. Regardless of which one was a cause or a consequence, the

macro theory elaborated on a change in (un)employment rates, wage rates, and their relevant conditions. All these changes were considered in the micro theory underlying the labor market conditions and thus, it was hard to distinguish between micro and macro approaches.

This led us to consider a combination rather than a distinction between the two approaches. Stillwell & Congdon (1991) referred to the summarization of Cadwallader (1989) who proposed a linkage between the micro and macro theories as follows. First, the macro model was able to show the linkage between aggregate moves and areal attributes that identify the recognition of those attributes among migrants. Then second, the individual recognitions were integrated into aggregate utility functions that finally affect the migration flows in the macro viewpoints.

With regard to the macro model of the first step, the concept of Lowry (1966) had been widely discussed during 1980s (Mueller, 1982). Lowry combined the concepts of gravity and neoclassical models. The gravity model serves as the macro model to investigate the relation between aggregated migration and locational characteristics. For the neoclassical model, Hicks (1963) stated that the wage differentials between origin and destination places were the primary cause of labor migration. According to these two concepts, Lowry designed the model of migration as follows:

$$M_{jk} = f\left(U_{jk}, W_{jk}, \frac{L_{jk}}{D_{jk}}\right) \qquad (2.1)$$

where M_{jk} was the quantity of migration from j to k, U_{jk} was the relative unemployment rates of area j and k, W_{jk} was the relative wage rates of area j and k, L_{jk} was the product of labor forces of area j and k, and D_{jk} was the distance between j and k. The ratio of the latter two factors seemingly

served as the relative benefit and cost of migration. Altogether, these factors required the consideration of origins and destinations simultaneously. Muller (1982) stated that consideration of the in- and out- migration separately was also comprehensible.

This research focused on in-migration across Thailand. In this case, a worker chose a destination among various destinations. Muller explained this behavior according to the theoretical model of the neoclassical potential migrant. The neoclassical potential migrant model assigns an individual will choose an alternative *j* that serves him a utility maximization associated with the budget constraint. Suppose there are *M* commodities in the market, and *T* is a lifetime period. If *t=0* is the current period, the budget constraint is given by:

$$\sum_{t=0}^{T} Y_t^j (1+r)^{-t} - C_t = \sum_{t=0}^{T} \sum_{m=1}^{M} P_{mt}^j x_{mt}^j (1+r)^{-t} \qquad (2.2)$$

where Y_t^j is the income in period *t* at alternative *j*, *r* is an discount rate at the current period, C_t is the cost of selecting alternative *j*, P_{mt}^j is the price of commodity x_{mt}^j, and x_{mt}^j is the quantity consumed of commodity *m* in period *t* at alternative *j*. Supressing the right hand side to a present value of the bundle consumption in a lifetime after choosing alternative *j*, then equation (2.2) can be rewritten as:

$$\sum_{t=0}^{T} Y_t^j (1+r)^{-t} - C_t = P_j x_j \qquad (2.3)$$

Similarly, let $y_j = (\sum_{t=0}^{T} Y_t^j (1+r)^{-t} - C_t)/P_j$ is a present value of lifetime net income from choosing alternative *j* in a real term, the budget constraint will be:

$$y_j = x_j \qquad (2.4)$$

In this case, an individual is considering a lifetime net benefit from choosing the j^{th} alternative that is a permanent movement.

For the utility function, individuals will choose an alternative that serves them a utility maximization relatively. Muller modelled the utility level depends on the present discounted value of the bundle consumption, x_j, and the set of amenity attributes at alternative *j*, a_j. Thus, the utility at alternative *j* is:

$$U_j = u(x_j, a_j) \qquad (2.5)$$

From equation (2.4), then equation (2.5) can be expressed as an indirect utility:

$$V_j = v(y_j, a_j) \qquad (2.6)$$

To maximize the utility, an individual will choose alternative *j* over alternative *k* if and only if:

$$v(y_j, a_j) > v(y_k, a_k), \qquad j \neq k$$

This equivalent to:

$$y_j \text{ observed if and only if } \max_j \left(v(y_j, a_j) - v(y_k, a_k)\right) \geq 0 \qquad (2.7)$$

According to this perspective, Muller assumed that migrants who have identical incomes and tastes would chose the same destination.

Regarding the utility function, Ehrenberg & Smith (1996) focused on the worker mobility by using the human-capital model that describes the labor migration as an investment to gain the higher level of utility for the rest of lifetime. Suppose *T* is a lifetime period after getting a new job and *r* is a discount rate as usual, an individual will consider the present value of the net benefit to make a migratory decision as follows:

$$PV\ of\ NB = \sum_{t=0}^{T} U_t^B (1+r)^{-t} - U^C \qquad (2.8)$$

where U_t^B is an increase in utility due to changing a job from the current year, *t=0*, to year *T* and U^C is a loss in utility due to changing a job. The loss includes money and non-money costs. The

money costs are generally measured by moving costs including expenditures for food and transportation during a moving period. According to Sjaastad (1962), the non-money costs consisted of two parts. The first part was opportunity costs that accounted for a loss of income during a moving period, the cost of searching for a new job, and the cost learning a new job. The second part was psychic costs such as adjusting to new surroundings and leaving familiar friends. However, because the psychic costs do not employ economic resources, its value should be equivalent to zero regarding the migratory cost (Sjaastad, 1962). Ehrenberg & Smith (1996) also mentioned that the level of utility will be improved later since the psychic costs will be gone after moving for a certain period.

It is obvious that workers will choose a destination according to their preferences. The preferences rely on the lifetime net benefits and migratory costs. There are several factors that affect the benefits and costs. For a convenient consideration, these factors will ultimately affect the worker's utility level. Hence, in addition to considering the influences of utility in the context of benefits and costs, the following paragraphs describe such influences in three categories: personal characteristics, choice attributes, and migratory costs. These influences are the causation of differences in chosen destination (Mueller, 1982).

Personal Characteristics. These characteristics affect the differences in migratory choices through incomes and the migrant's utility function itself. The possession of different skills due to different personal characteristics, such as attitudes, educational attainments, experiences, and genders, originates different levels of income among workers. Each destination requires different labor forces that depend on job tasks and locational characteristics, and thus, destinations have different wage structures that lead to different migratory decisions. In this case, some workers

might be suitable for a specific type of job at a specific area. Personal characteristics also show different tastes that affect the worker's utility level and alter a rank of alternative. This requires a stated assumption that workers with identical observable characteristics would have the same tastes and choose the same destination; however, there are still unobservable characteristics of the workers that are hardly measured and observed. The additive random form of utility accounts for those unobservable characteristics by adding a deviation of utility (Bertoli et al., 2013; Mueller, 1982; Stillwell & Congdon, 1991). The details of the additive random utility will be described later in the section dealing with the theoretical model.

Choice attributes. In the context of labor migration, the categories of choice attributes are labor market conditions and areal amenities. The labor market conditions account for the probability of getting a new job and a relatively high income. The common variables that are used to express the conditions are (un)employment rates and wage rates at destinations. The areal amenities, such as hospitalities, air quantities, and crime rates, might be implicit in housing prices and living costs. Hedonic models are widely used to measure local amenities. Bayer et. al. (2009), for example, found that a change in housing price associated with a change in air pollution

Migratory costs. These include transportation and non-transportation costs. If the transportation costs were not accessible, most researchers used distances between origin and destination places as its proxy variable (Schwartz, 1973; Sjaastad, 1962; Stillwell & Congdon, 1991; Yang, 2004). The transportation costs are a part of moving costs that directly relate to the size of household and distances. The bigger of family size was the higher cost of moving. For the non-transportation costs, Mueller (1982) described the opportunity and nonpecuniary separation costs. The opportunity costs included a foregone income during a moving period, a spending time to look for a new residence, and a cost of job search. These costs would be relatively high for low-

skilled or low-experienced workers. The networks' migrants also play an important role in getting a new job at the destination (Yamauchi & Tanabe, 2008), and this might be implicit in a job searching costs. The nonpecuniary separation costs were equivalent to the psychic costs that result from a stressfulness of leaving a familiar environment. These costs were unobservable; however, they might be explainable through workers' observable characteristics. Additionally, researchers might ignore the opportunity and separation costs because they might occur in a short period. For a worker with high frequencies of job and residential turnovers, he will spend less time searching for a new job and a new residence. He is also less tied to an institution and a residence.

All factors mentioned above are the influences on an individual's utility. An individual assigns utility level to each destination. A change in the influences of utility will definitely alter the individual's ranking of destination. The influences are observable and unobservable factors. The observable factors will be expressed by the deterministic component of utility. Personal characteristics and non-transportation costs consist of many unobservable factors that cause the variation in tastes or utility levels. Hence, the unobservable factors must be included in the deviation of utility. The utility associated with the deterministic and unobserved components is called the additive random utility model.

In conclusion, migrants will choose destinations that maximize their utility level. The migrant's utility depends on the lifetime net benefits and migratory costs. There are several factors that affect these benefits and costs, and ultimately affect utility levels. These factors can be categorized into three groups: personal characteristics, choice attributes, and migratory costs. Each category consists of both observable and unobservable factors. Researchers have to carefully choose an

appropriate model to explain both types of factors. This introduces the form of additive random utility that is described in the theoretical model section. The next chapter will clarify the history of labor migration in Thailand in order to situate the nature of the data source and identify the observable and unobservable factors of this research. The limited availability of data is another reason for an uncontrollability of unobservable factors.

Chapter 3: **The History of Labor Migration in Thailand**

3.1 Data Source

The Labor Force Survey (LFS) was the main source of data for all analysis in this research. The National Statistical Office of Thailand has conducted it since 1963 and collected the data quarterly since 1998. The questions of migration were included into the LFS only in the fourth quarter of 1994, 1997, 2002, 2004-2009, and 2011-2012. The fourth quarter data were manipulated during October to December annually for all 76 provinces[2] in Thailand. However, the individual wages were available for the following years: 2002, 2004-2008, and 2011-2012. Because the main objective of this research was to clarify the role of wage in labor migration, the data used were thus drawn from these eight years only.

The definitions of migration do vary across the research. In the words of White and Woods (as cited in Stillwell & Congdon, 1991), "the reason for the difference between the conceptual and the operational definitions lies in the nature of the sources available for the study of any migrational phenomenon" (p.3-4). In this research, the definition was developed in accordance with the approach of LFS, as follows: "a migrant is a worker who decided to move to a province and live there less than or equal to 12 months." For example, if the LFS was conducted during October to December 2012, a migrant must have moved into the current province any time between October

[2] Since March 23, 2011. Thailand has 77 provinces. This research focuses on 76 provinces for a comparable analysis.

2011 and September 2012. Thus, the sample for this research was a partial sample of the LFS that was attached a weight to each individual record.

The LFS data had seven categories of labor as follows: employers, self-employed workers, unpaid family workers, government employees, enterprise employees, private employees, and cooperative employers. However, the wage data were available only in three groups of workers that are government, enterprise, and private employees. Because this research aimed to clarify the role of wage in labor migration, the availability of wage data reduced the samples to those three groups. Table 3.1 shows that the highest percentage of migration was seen in the group of private employees with an average of approximately 38%, while the average percentage of government and enterprise employees was approximately 4% and 0.4% respectively. Nevertheless, this was not the primary reason for focusing on the private employees' research. The most important reason was a difference of job structure.

In Thailand, the government and enterprise employees have had relatively high job security. The government institutions and state-owned enterprises have been subsidized by the government. For the state-owned enterprises, the government holds at least 51 per cent of the stake. Hence, the government and enterprise do not concern themselves about any complaint regarding to their services, efficiencies, and productivities. Jaturanonda, Nanthavanih, and Chongphaisal (2006) also found that these types of organizations are also careless about the contributions of their workers to the jobs. This may have led to the low rate of job turnover in these organizations, and thus, the workers of these organizations have had no motivation to move around the country to obtain a relative high income.

Table 3.1 Distribution of Migrants by Employment Status in 2002, 2004 – 2008 and 2011 - 2012

	2002	2004	2005	2006	2007	2008	2011	2012
Employers	1.22%	1.13%	1.24%	1.13%	0.96%	0.67%	1.20%	3.49%
Self-employed workers	14.51%	12.76%	15.45%	11.87%	13.44%	15.89%	19.65%	24.55%
Unpaid family workers	15.55%	12.92%	16.82%	14.43%	16.64%	17.73%	25.33%	20.73%
Government employees	4.92%	3.75%	2.59%	3.06%	2.54%	2.23%	6.67%	6.19%
Enterprise employees	0.43%	0.47%	0.25%	0.42%	0.29%	0.22%	0.57%	0.68%
Private employees	34.06%	38.87%	34.93%	38.44%	35.52%	34.90%	46.53%	44.21%
Cooperative employers	0.16%	0.23%	0.08%	0.09%	0.23%	-	0.05%	0.06%
Unknown	29.15%	29.87%	28.64%	30.58%	30.40%	28.37%	-	0.09%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)
Note: “unknown” meant interviewed people were unable to answer the employment status of their family member.

On the contrary, the private sector had the highest rate of job turnover because of its competitiveness. These competitive situations drove private employees to gain new experiences and demonstrate their performance levels in order to secure their jobs and seek better incomes. According to the LFS data, quitting a job, looking for a high income, and trying to obtain high job security were the main reasons to migrate for the group of private employees. As a result, this research expected that the employees' wages play a significant role in labor migration.

In addition to the workers' categories, the LFS also provided a job description of workers to clarify their industrial sectors. The National Statistical Office (NSO) of Thailand divided industries into two main sectors: agricultural and non-agricultural sectors. These two sectors had different structures in terms of job tasks and wages that directly affected migratory decisions, and therefore, the consideration of a migrant's current sector was necessary in this research. The agricultural sector[3] contained the following industries: crop production, animal production, hunting, forestry, logging, fishing, aquaculture, and related service activities including post-harvest activities. Not surprisingly, the non-agricultural sector[4] was made up of industries that were excluded from the agricultural sector. Those industries were mining and quarrying, manufacturing, electricity, gas, water supply, construction, wholesale and retail trade, repair of motor vehicles, motorcycles, personal and household goods, hotel and restaurants, transport, storage, communications, financial intermediation, real estate, renting activities, public administration, compulsory social security, education, health and social work, private households, social, and community/personal service

[3] National Statistical Office of Thailand used the classification from the third version of the Thailand Standard Industrial Classification (TSIC) 2009.
[4] National Statistical Office of Thailand used the classification from the third version of the Thailand Standard Industrial Classification (TSIC) 2009.

activities. Because the code for a job description varied across years, this research considered two sectors according to the definition by the NSO. This also avoided the inconsistency of definitions among the sample periods. For the same reason, this research used a four-region division system defined by the NSO. Hence, in the context of this research, Thailand consisted of four regions: Center, North, Northeast, and South. The tie of industry and regional labor mobility was considered in accordance with these division systems of the NSO.

With regards to the individual data of place-to-place migration, even though the data for original place and industry were accessible, the structure of the chosen model focused on the determinants of chosen destination only. In other words, this research was an in-migration study that used the allocation model (Mueller, 1982). The attributes of the original place, however, were still taken into account. For example, if a migrant decided to move from Nonthaburi to Yasothon, the attributes of these two provinces were included in his considerations as well as the attributes of the other provinces. This means that he considered the attributes of 76 provinces including Nonthaburi, and eventually he chose Yasothon that maximized his utility level. According to this behavior, I also assumed that a migrant take a working sector into account, and thus it was possible that this migrant changed his job from non-agricultural sector in Nonthaburi to agricultural sector in Yasothon.

The LFS also interviewed workers to determine a reason for migration where migrants declared their main purpose for migrating. Knowing a reason for migration had both advantages and disadvantages. The advantages were to get rid of ambiguous reasons and to group migrants. Based on the reasons for migration, the migrants were grouped into three groups as shown in Table 3.2.

The reasons of the first group were to look for a job, to change a job, to change a job for a better income, to help family's business, to have better job security, to avoid a wage reduction, and to look for a new experience. This group was related to economic factors such as wage rates and employment rates. Even though the job security and new experience reasons were unlikely to rely on the economics factors, the migrants with these reasons might still have received economic benefits from the job in the long term. The second group was comprised of the migrants who returned to their hometowns. Interpreting the effect of economic factors on this group was a challenge because a migrant might have had either an economic or non-economic reason, or both; however, an economic reason might have been implicit. Suppose a migrant wanted to quit a current job and return to his hometown because of the stress; he needed to think about what he could do at the hometown. This example takes the role of economic factors into account. Hence, it is possible that economic factors might have had an effect on labour migration even though they were not the primary factor. The third group's reason was to move to create their own business at the destinations. This group's considerations were the same as the first group because the economic opportunity at the destination induced workers who wanted to have their own business and workers who looked for a job in the same direction.[5]

Unfortunately for some reason, the questionnaire has been changed since 2011. The original question to ask for the reason was translated as: "What is the main reason for moving to the current residence?" For 2011 and 2012, the question has been translated as: "What is the main reason for changing a job?" The latter question indicated that a migrant might move either from a province

[5] The third group will be estimated in 2011 only because there was too small sample size in 2012.

to another province or within a province to change a job. In the meantime, the available answers in the questionnaire were also changed, for example, from either “Look for a job” or “To change a job” to “To change a job for better income” as shown in Table 3.2. Even though there was a change in answers, they still expressed the same purpose of migrants that can be grouped in the same category. However, to set the comparable samples of migrants across years, only the migrants that moved from one province to another province were selected.

Another disadvantage of the sample was the long term, or permanent, or seasonal migration were unable to be identified. The questionnaire excluded an identification of these types of migration. Hence, it is possible that the samples did include all these types that might contributed a source of variation into the model. An annual estimation of location choice model was thus seemed to be the better approach to reduce the variation. Moreover, even though the research employed 8 years of data, these were not panel data that limited a technique of pooling data. The unstable situation in Thailand, which originated some unobservable determinants of labor migration, was also another obstacle to pool data as a multiple cross-sectional data. All in all, this research clarified the short response of workers due to a change in wages as well as other factors, i.e. employment rates, food and housing expenses.

There were several reasons that were unspecified among the three groups. The migrant who chose one of these reasons was excluded from the sample. This was because some reasons were ambiguous and some others were not related to economics factors in any way. For example, economic and non-economic reasons might have affected a decision to move to a new residence; however, the main purpose was different in each family causing variation in utilities, and thus, the

model was difficult to identify[6]. A main issue was a personal reason that was obviously unaffected by economic factors. The temporary move identified migrants who were working in the agricultural sector and waiting for a planting season. This group of migrants did not have another job during their waiting period, and therefore, they might have chosen a current province as an enjoyable vacation place. The other reasons were also unpredicted by economic factors in both direct and indirect manners, and thus, they were omitted in this research.

[6] The nested logit model was estimated for this group; however, the convergence was not achieved and thus, the results were omitted from this research. There were two main results for convergence failure: small sample size and extreme distribution of either dependent or independent variables (Allison, Altman, Gill, & McDonald, 2004). Even though this group had the small sample size, the third group, which also has a smaller sample size, could be estimated. Hence, the extreme distribution did happen in this case. There was an extreme response in some provinces. In other words, the number of migrants in some provinces were extremely higher than the others. Nonetheless, this was problematic if the sample size was large enough.

Table 3.2 The Percentage of Migration by Group of Reasons in 2002, 2004 – 2008 and 2011 - 2012

		2002	2004	2005	2006	2007	2008	2011	2012
Group 1									
	Look for a job	36.29%	38.02%	27.63%	34.87%	31.02%	26.69%	-	-
	To change a job	4.42%	5.01%	8.01%	7.94%	8.36%	12.40%	-	-
	To change a job for better income	1.88%	1.80%	2.77%	4.56%	2.88%	3.51%	14.86%	16.59%
	To help family's business	0.52%	0.15%	1.24%	1.43%	1.43%	2.36%	-	-
	To have a better job security	-	-	-	-	-	-	1.29%	3.85%
	To avoid a wage reduction							0.95%	
	Look for a new experience	-	-	-	-	-	-	4.51%	4.20%
	Total	**43.12%**	**44.97%**	**39.65%**	**48.80%**	**43.68%**	**44.96%**	**21.62%**	**24.63%**
Group 2									
	Return to hometown	**30.41%**	**26.54%**	**32.65%**	**23.43%**	**25.47%**	**26.59%**	**46.08%**	**42.12%**
Group 3									
	Move to create their own business							**8.90%**	**0.32%**
Etc.									
	Move to a new residence	3.33%	2.67%	3.18%	2.47%	4.34%	4.05%	-	-
	To be transferred as a requirement of a current job	4.32%	6.87%	5.96%	7.45%	5.76%	5.83%	-	-
	To pursue a new degree	0.47%	0.39%	0.78%	0.25%	0.53%	0.24%	-	-
	To follow a household member	15.41%	13.87%	13.44%	15.05%	13.04%	12.40%	-	-
	Have a healthy issue/To take case family	0.90%	1.99%	2.51%	1.38%	2.92%	2.60%	2.64%	1.69%
	Look for a job that is suitable for the degree	-	-	-	-	-	-	0.18%	-
	Reduce transportation costs	-	-	-	-	-	-	10.94%	9.75%
	Job dismissal/Lack of Funding/Job completed	-	-	-	-	-	-	7.48%	11.75%
	To move temporarily	-	-	-	-	-	-	2.16%	2.41%
	Etc.	2.04%	2.70%	1.82%	1.17%	4.25%	3.33%	-	6.70%
	Unknown	-	-	-	-	-	-	0.00%	0.64%
	Total	**26.47%**	**28.48%**	**27.69%**	**27.77%**	**30.84%**	**28.46%**	**23.40%**	**32.93%**
Total Migration		100%	100%	100%	100%	100%	100%	100%	100%

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Another advantage of knowing migratory reasons was that the meanings of each reason in those three groups were clearly specified. For example, a migrant who returned to their hometown did not have another hidden purpose such as a health issue, following a family member, or dismissal. Admittedly, it ws possible that a migrant had a combination of reasons. For example, some migrants wanted to return to their hometown to take care their families. In this case, the hidden purpose was unknown and unspecified because the migrants could not provide a ranking of their reasons. Hence, this research assumed that all migrants provided one genuine reason to move regardless of other hidden purposes.

The limitation of personal characteristic data was the availability of an individual's age. The age was generally collected as a discrete number; however, in 2006, it was gathered into 10 age groups as follows: less than or equal to 15 years, 15-17 years, 18-19 years, 20-24 years, 25-29 years, 30-34 years, 35-39 years, 40-49 years, 50-59 years, and greater than or equal to 60 years. Hence, the analysis of each year took the age into account as the age groups that will be clarified again in each step.

In addition to the data of the LFS, the aggregate data at the provincial level from the NSO have been used in this research as well. The aggregate data were employment rates, and food and housing expenses that served as provincial attributes describing labor market conditions and the local economies of provinces. Unfortunately, the data of food and housing expenses were only available for 5 years – 2002, 2004, 2006, 2007, and 2011 – 2012 because the data were drawn from the household socio-economic survey that was not conducted every year. For the migratory costs, because the chosen type of travel was not collected from migrants, this research decided to

use distances between origin and destination provinces instead. The distance between provinces was collected by a private company named Asset Performance Solutions Co., Ltd.

In conclusion, the sample for this research was drawn from the LFS of Thailand. These data provided individual characteristics including gender, age, education attainment, marital status, worker's category, and sector. According to the worker's category, this research focused on the private employees group because of its available wage data and job structure that caused a high rate of labor migration. The workers were also categorized into two industrial sectors: agricultural and non-agricultural. Because these two sectors had different structures of employment and required different skills from employees, they affected migrants' decisions. Next, the samples were divided into specific groups based on their purpose for migration. The first group was the migrants whose main intent was to have a better life due to a job change. The second group was the migrants who decided to return to their hometowns. The third group was the migrants who moved to a province to create their own business. Based on these three groups, the assumption of trustworthy reasons without a hidden purpose needed to be stated. In addition to the personal characteristics from the LFS, this research also needed the secondary data including employment rates, and food and housing expenses from the NSO as well as distances between provinces across the country from a private company. The next section focuses on all the variables with a presentation of descriptive statistics. This step enabled the researcher to understand the nature of the data and their variations to consider the appropriate methodology that is described later in the section of econometric implementation.

3.2 Descriptive Statistics

Searching for determinants of labor migration was challenging. In the terminology of this research, migrants chose a province that served them a utility maximization. The economic theory of labor migration in the previous section described three groups of factors that affected the migrant's utility level. They were personal characteristics, choice attributes, and migratory costs. The personal characteristics were gender, age, marital status, and educational attainment. These personal characteristics affected the tastes and preferences of migrants as well as showed their differences in skills. The most important factor in this group was wages which is also the most complicated variable. The higher age and educational attainment characteristics indicated higher experience and skill in a job that reflected a relatively higher wage. The choice attributes were employment rates, food and housing expenses, and distances. These represented the labor market condition, local economy, and migratory cost, respectively. The following sub-sections present the descriptive analysis of those variables to clarify their potential effects on labor migration in each group, and this begins with an understanding of labor migration in Thailand.

3.2.1 Labor Migration in Thailand

The labor migration in Thailand has a long history. One central reason for its importance is the substantial level of migration that has occurred within the country. Past research (Amare et al., 2012; T. D. Fuller et al., 1985; Gordon F. De Jong et al., 1996; Yang, 2004) found that this pattern has occurred at least partially in response to higher wage in the urban areas.

Thailand consists of four regions: Center, North, Northeast, and South[7]. The urban areas are commonly referred to as the Central region of Thailand because it contains the capital city which is surrounded by industrial areas. The rural areas are the other regions where informal or agricultural employment is relatively more common. To compare the number of in-migrants between rural and urban areas, Figure 3-1 shows the ratio of in-migrants in the North/Northeast/South to the Center during the sample period. Most ratios, which were less than one, indicated the numbers of in-migrants regardless of original regions in the Center were higher than the other regions. Only for 2011 and 2012, the numbers of in-migrants to the Northeast were higher than the Center. Indeed, the ratios had been gradually increasing during 2007 – 2012 especially the in-migration to the Northeast. There were possible reasons to explain the reduction in labor migration on both supply and demand sides. On the demand side, there was an increase in demand for labor for non-agricultural jobs in rural areas, or the regions of North, Northeast, and South, because the better development of infrastructure facilities in rural areas has decentralized firm and plant locations. In the years 2002 and 2004, the migrants were likely to move to the Central region (~50% of total migrants) rather than the others, especially for Bangkok and Samut Prakan that are the business and industrial hubs of Thailand. However, the number of migrants in the Northeastern region has dominated in 2011 and 2012 (~40% of total migrants), especially for Nakhon Ratchasima, Buri Ram, and Surin. Nakhon Ratchasima is the main economic center in the Northeastern region and it also contains one of the biggest cities in Thailand. Surin has a popular border crossing between Thailand and Cambodia, while Buri Ram is located between Nakhon

[7] There are four systems to divide regions in Thailand that has been assigned by different institutions with different purpose. This research used the four-region division system following the National Statistical Office that was the main source of data.

Ratchasim and Surin, Hence, workers may be attracted by the economic activities of these three provinces.

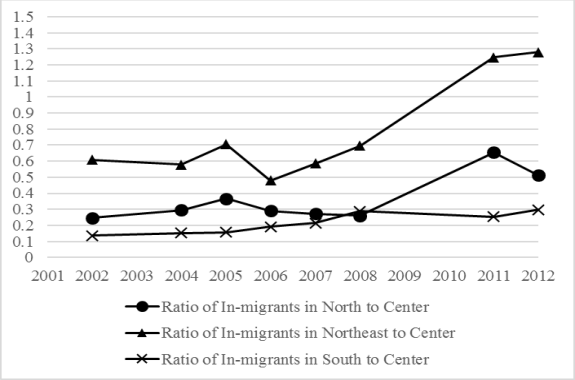

Figure 3-1 The Ratios of In-Migrants in North/Northeast/South to Center in 2002, 2004 – 2008 and 2011 - 2012

Source: The Labor Force Survey (2002, 2004 - 2008 and 2011-2012)
Note: a ratio of in-migrants in the North/Northeast/South to the Center is number of in-migrants moving to the North/Northeast/South divided by to the Center, regardless of their original region.

This research focused on the role of wage in labor migration. To clarify the potential relation between labor migration and wage, I plotted the total number of in-migrants by province against the associated average monthly wage of all those migrants providing a graphical representation of basic simple linear regression as shown in Figure 3-2. Even though the in-migration was concentrated in the range of average monthly wage from 4,000 – 6,000 Baht, there was a potential positive relationship between the in-migration and average monthly wage in most years, and it was the most noticeable in 2011. There were three reasons for the intractable relationship. First, the wage did not account for self-selection bias because the wages do vary across personal characteristics as well as geographic location. Secondly, the wage might not reflect living costs. Lastly, the migrants had different purpose of migration. For example, a worker, who wants to move back to his hometown, might not consider the possible wage rate at his destination. These required an estimation of counterfactual wage with a correction of self-selected migrants, and adding living

costs into the model as well as considering the purpose of migration presumably improved the clarification of wage as a significant determinant of labor migration.

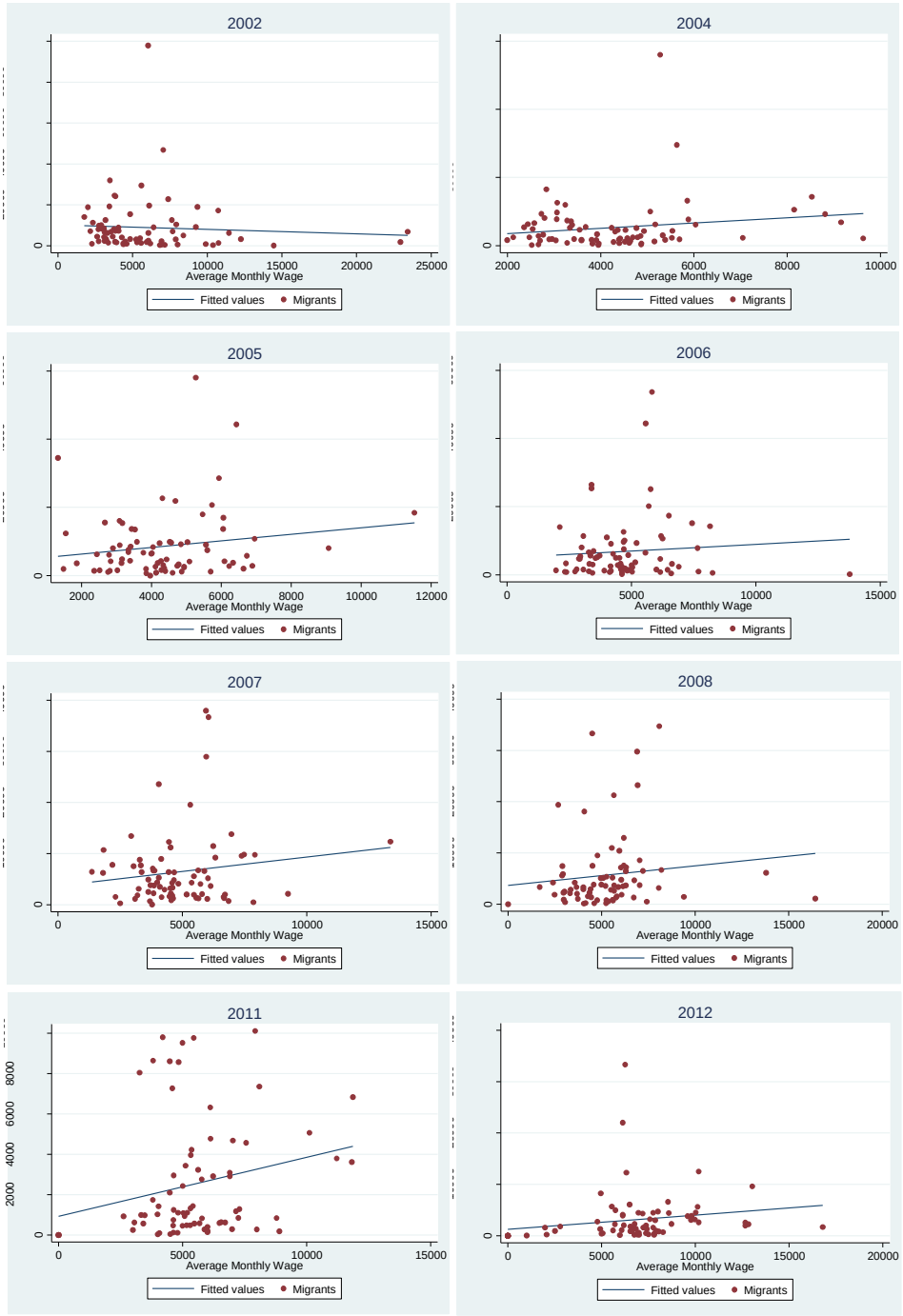

Figure 3-2 The Number of In-migrants and Average Monthly Wage in 2002, 2004 – 2008 and 2011 - 2012

Source: The Labor Force Survey (2002, 2004 - 2008 and 2011-2012)

Another dimension of labor migration in Thailand is industrial labor mobility. This research focused on two industries, agriculture and non-agriculture. The tie between regional and industrial labor mobility is depicted by Figure 3-3. As treated the Center as a base region, workers noticeably moved to other regions to work in the agricultural sector, and hence the ratio of in-migrants, regardless of original region, in the North/Northeast/South to the Center were greater than one. However, the ratio gradually declined for the North and South during 2006 – 2012. On the contrary, there was an gradually increase in the ratio of in-migrants in the non-agricultural sector during the same period. The ratios in this sector were less than one, and thus the numerous workers moved to the Center region rather than the others in order to work in the non-agricultural sector. As a result, it is possible to conclude that the Center is the main source of employment in the non-agricultural sector while the other regions were dominated by the agricultural jobs.

As mentioned in the previous section, this research concentrated on three groups of migrants: the first group was the migrants who aimed to benefit from a new job at the destination, the second group was the migrants who returned to their hometown, and the third group was the migrants who moved to a province to create their own business. Appendix B shows the numbers of in-migrants by province. It is clear that group 1 was more likely to move to the Center (~30% - 36% of total migrants) during the sample period, and thus this region were the main source of workers who wanted to change jobs and benefit from it. At the same time, for workers returning to their hometowns, most of their hometowns were located in the Northeast regions (~14% - 28% of total migrants). The share of group 1 migrants in total migrants was 28.77%, 2.85%, 3.5%, and 3.82% on average across the sample period in the Center, North, Northeast, and South, respectively.

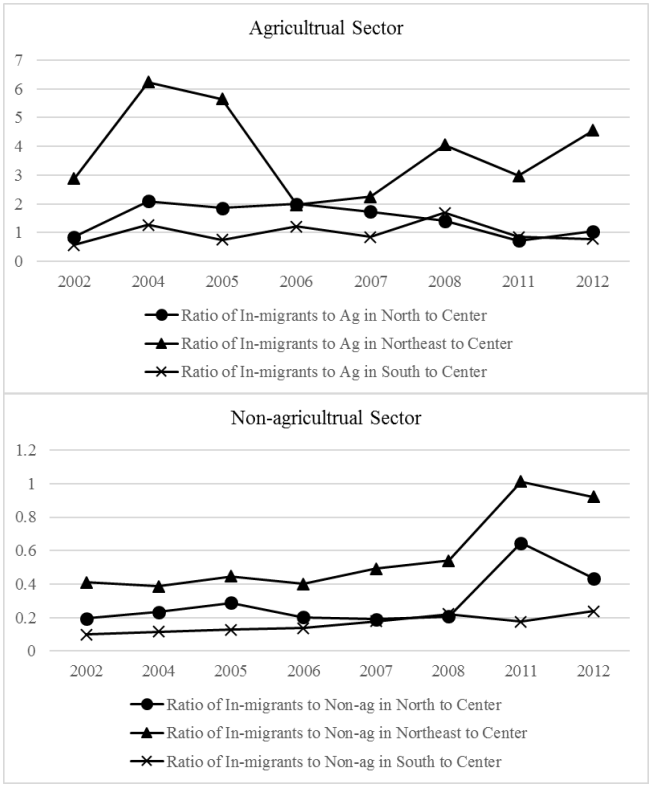

Figure 3-3 The Ratios of In-Migrants in North/Northeast/South to Center in 2002, 2004 – 2008 and 2011 – 2012 by Sector
Source: The Labor Force Survey (2002, 2004 - 2008 and 2011-2012)

Regarding the labor migration by group and province, Bangkok and Samut Prakan took first and second place respectively in 2002 and 2004 – 2008 (~6% - 14% of total migrants). During the same period, the numbers of group 1 migrants in Chon Buri, Nakhon Pathom, and Samut Sakhon were relatively higher than in the other provinces (above 90th percentile). These three provinces were major industrial hubs in the same way as Samut Prakan. Accordingly, these provinces were attractive to workers who wanted to migrate to get a better job. For group 2 migrants, they concentrated into the Northeast. The provinces with the number of migrants above the 80th percentile in most years were Ubon Ratchathani, Chaiyaphum, and Khon Kaen. For group 3, who moved to create their own business at the destinations. Even though this group of migrants moved

to only 26 out of 76 provinces, this was a good start to answering the question: Do economic factors affect this group of migrants? This group was more likely to move to the Central area; however, the top three highest shares of migrants were Nakhon Si Thammarat, Phitsanulok, and Surin (~1% - 2% of total migrants) that were located in South, North, and Northeast respectively.

The common pattern of labor migration in Thailand was the regional mobility. According to the historical data, workers were more likely to move to the Center and Northeast regions. The migrants of group 1 and group 3 were concentrated in the Center, and most of group 2 migrants chose to live in the Northeast. In the dimension of sectoral mobility, more than 90%, 70% and 50% of group 1, 2 and 3, respectively, decided to work in the non-agriculture sector. The agricultural workers of group 1 were relatively concentrated in the South region. This led the researcher to focus on the regional migration; however, the sectoral migration could not be overlooked because the high earning in the non-agricultural sector was always attractive to workers.

3.2.2 Personal Characteristics of Migrants

The Labor Force Survey provided individual-level data for employed workers. This data included gender, age, marital status, educational attainment, and wage. The following sub-section elaborates on the descriptive analysis of these personal characteristics. This consideration relied on the regional pattern for a convenient comparison between the main results and the descriptive statistics. Moreover, the model was estimated annually to reduce the year-to-year variation because of the political violence and severe flooding (see the detail in the section 3.3). In this approach, the coefficients were able to vary and be comparable across years, and thus, the annual descriptive statistics were expected to explain the changes in magnitude of coefficient.

3.2.2.1 Gender

The past studies of developing countries (de Brauw & Harigaya, 2007; Yang, 2004) indicated that females were less likely to migrate. In the context of labor migration in Thailand, it showed the similar result. Less than 50% of total migrants were female for group 1 and group 2 as depicted in Figure 3-4 and Figure 3-5. For group 1, the female migrants were less likely to move to the North and Northeast relative to the Center and South, and their numbers have continually decreased over the past decade in every region, especially for the North. The growth rate of female migrants in the North was -0.12%, while -0.011%, -0.044%, and -0.003% were the growth rate in the Center, Northeast and South, respectively. This was consistent with the study of Gordon F. De Jong et al. (1996) that showed the tie of financial responsibility forced males to migrate in order to look for a job with a relative high income to take care of their families.

For female migrants, they were more likely return to their hometowns because of family nurturance (Gordon F. De Jong et al., 1996). However, it was contradicted with the trend of female migrants in group 2 who decided to return to their hometowns. The percentages of female migrants were about the same as group 1, and thus, females were less likely to return to their hometowns. However, the female migrants had positive trends for the Center and North that accounted for the growth rate of 0.029% and 0.025%, respectively. For the Northeast and South, the growth rates of female migrants were -0.009% and -0.029%, respectively. In 2011, as depicted in Figure 3-6, the percentage of female migrants in group 3 was highest in the Center followed by the North, Northeast, and South, respectively. For the North and Northeast, the shares of female migrants in these regions was less than the Center which was the same as group 1 and group 2.

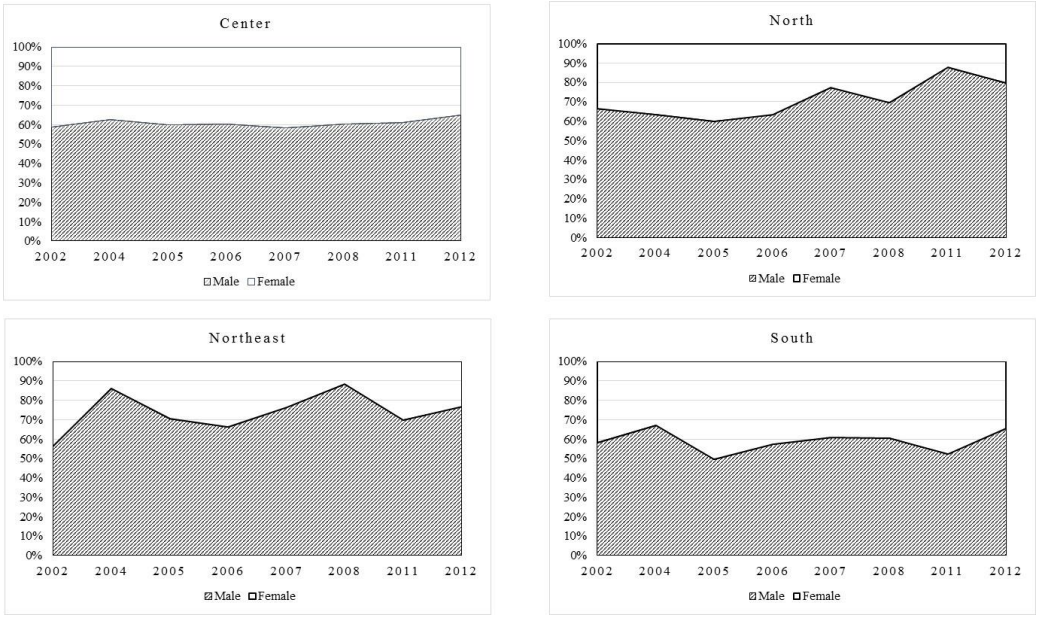

Figure 3-4 The Share of Male and Female in Total Migrants of Group 1 in 2002, 2004-2008, and 2011-2012

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

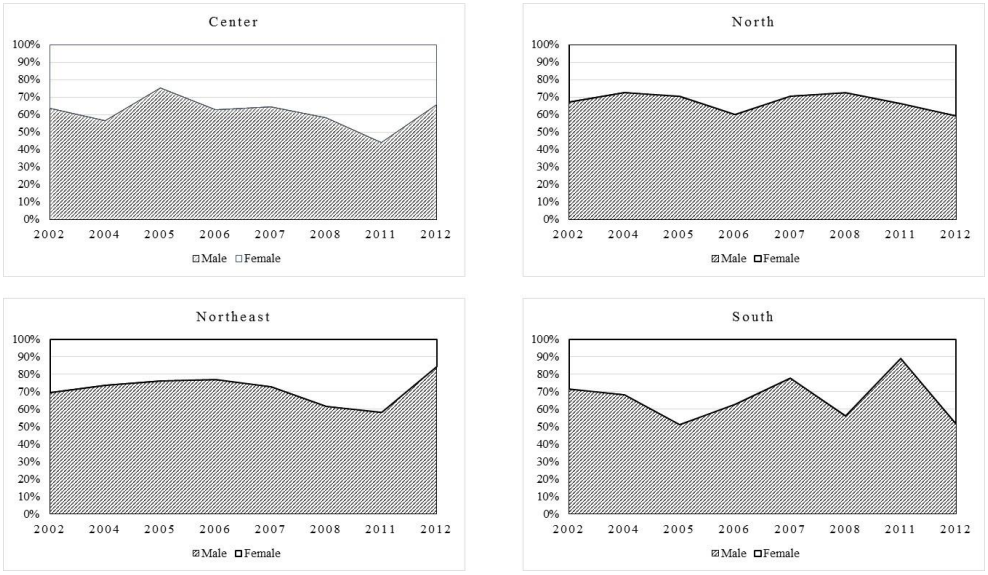

Figure 3-5 The Share of Male and Female in Total Migrants of Group 2 in 2002, 2004-2008, and 2011-2012

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

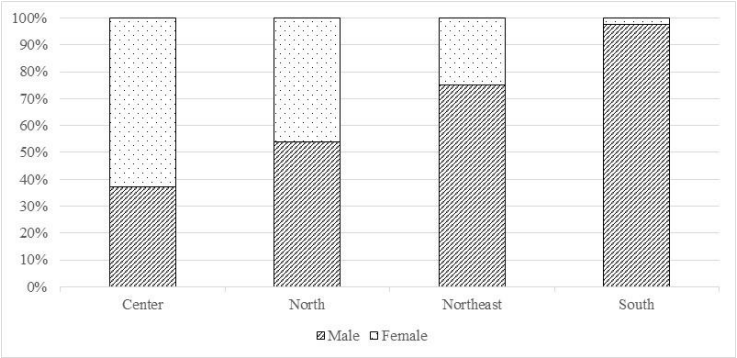

Figure 3-6 The Share of Male and Female in Total Migrants of Group 3 in 2011
Source: The Labor Force Survey (2011)

As a result, it was possible to conclude that the female migrants mostly moved to the Center and Southern regions for group 1 and group 2. For the group 3, the percentage of female migrants was highest in the Center and lowest in the South.

3.2.2.2 Age

The age of migrants represented two factors that accounted for the migratory decisions. First, a higher age meant a higher level of experience. Hence, the younger migrants tended to have relative low incomes because of their less experience. This encouraged young workers to look for new experiences and attempt to obtain a better income. Secondly, age was a measurement of family dependency. The older migrants were more dependent on their families with regard to financial responsibilities and caring concerns. The relatively low level of experience and the high level of dependency influenced young workers to migrate as indicated in the past literature on developing countries (Amare et al., 2012; T. D. Fuller et al., 1985; Junge et al., 2015). As has been noted in the data source, the worker's age in 2006 was gathered in 10 groups: less than or equal to 15 years, 15-17 years, 18-19 years, 20-24 years, 25-29 years, 30-34 years, 35-39 years, 40-49 years, 50-59

years, and greater than or equal to 60 years. At this point, age was grouped into 3 groups for a convenient comparison: 15-24 years, 24-39 years, and greater than or equal to 40 years.

Overall, the average age of group 1 migrants was around 23-36 years as illustrated in Table 3.3. In the Center, the average age had continually increased during 2002-2012. The opposite trend was shown in the North. For the Northeast and South, there were no specific patterns. Figure 3-7 depicts the share of age groups in the total migration of group 1. Migrants aged 15 to 24 constituted the share of 40-70% that was higher than the other age groups, especially in the North. Nonetheless, the percentage of migrants aged 25-39 years had been rising since 2007 in the Center and since 2005 in the Northeast and South. Migrants aged 40 years and older accounted for only 10% on average across the years for all regions.

Table 3.3 The Mean Age of Group 1 Migrants in 2002, 2004-2005, 2007-2008, and 2011-2012

	Center		North		Northeast		South	
	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*
2002	25.19	*7.50*	26.53	*7.52*	23.87	*5.47*	25.56	*6.72*
2004	26.80	*8.86*	26.22	*8.27*	24.31	*7.18*	28.93	*10.91*
2005	26.30	*8.35*	26.95	*5.62*	27.60	*7.01*	27.94	*8.15*
2007	26.80	*9.22*	28.12	*9.17*	31.19	*8.48*	28.15	*7.54*
2008	29.45	*9.74*	28.81	*9.19*	26.57	*5.78*	30.22	*9.76*
2011	29.67	*6.71*	23.74	*6.93*	35.89	*10.30*	25.36	*4.09*
2012	31.22	*7.85*	24.74	*7.44*	26.91	*10.04*	30.11	*7.53*

Source: The Labor Force Survey (2002, 2004-2005, 2007-2008, and 2011 – 2012)

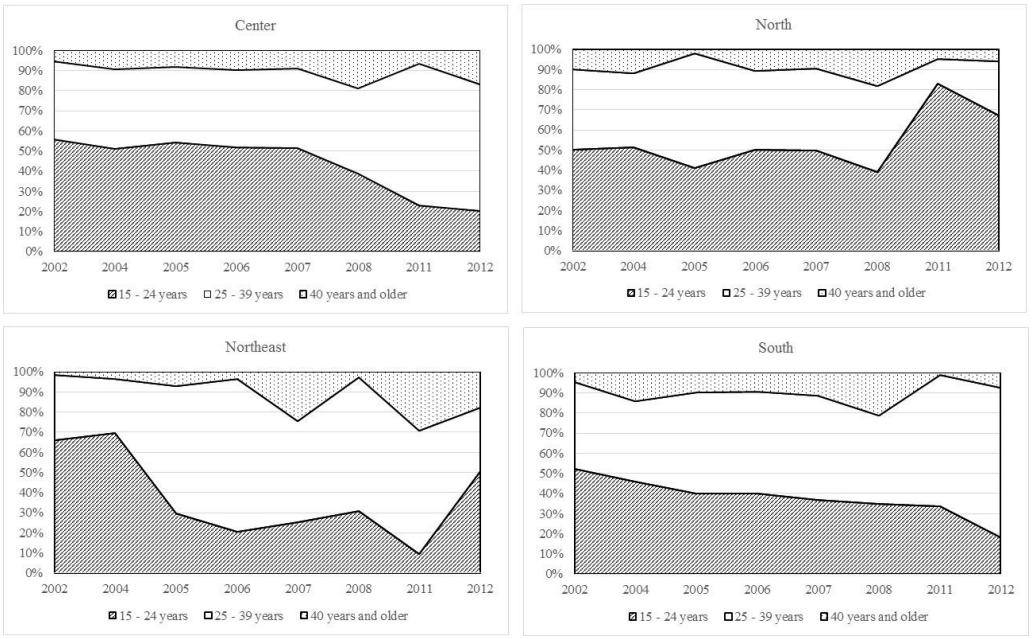

Figure 3-7 Proportion (in percentage) of The Group 1 Migrants aged 15 to 24, 25 to 39 and 40 and over in 2002, 2004-2008, and 2011-2012

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

The range of average age in group 2 migrants was lower than group 1; however, group 2 had a higher variation. Table 3.4 shows the average age of group 2 migrants with the range from 24 to 33. Except for the South region, the average age of migrants in 2005 and 2007 was higher than in other years. In the South, the highest average age was 30 in 2011. According to Figure 3-8, it was possible to conclude that the number of migrants has been dominated by the age group between 25-39 years except for the South where the age group between 15 to 24 years was more numerous than the other age groups. The average proportion of the migrants aged 25-39 years was 50%, 47%, 44%, and 43% in the Center, North, Northeast, and South, respectively.

In 2011, the average ages of group 3 migrants were 31.52, 28.6, 25.82, and 25.45 in the Center, North, Northeast, and South, respectively. On a year-by-year basis, they were higher than group 1

and group 2 for the Center and North, and vice versa for the Northeast and South. The group 3 migrants consisted of migrants aged 25-39 years, the most for all regions except the Northeast. The percentage was 40% in the Northeast compared to 44%, 61% and 51% in the Center, North, and South, respectively (Figure 3-9). The share of migrants aged 40 and over in this group was higher than the other groups on a year-by-year comparison, especially in the Center (25%).

With regard to the regional patterns of migration, all groups of migrants aged 25-39 years were more likely to migrate to all regions for any purpose of migration. However, this trend was just raised since 2011 for group 1. Because the minimum age of employment in Thailand is 15 years of age, the workers between 15 and 24 years can be defined as the young workers because of their inferior experience and relatively low income. For the middle-aged workers, 25-39 years, this group could afford the moving costs and had an appropriate level of experience that was ready to be adapted or developed, and thus, they might have been able to obtain a new job and build their own businesses easier than the other age groups.

Table 3.4 The Mean Age of Group 2 Migrants in 2002, 2004-2005, 2007-2008, and 2011-2012

	Center		North		Northeast		South	
	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*
2002	28.72	*8.05*	28.83	*9.09*	28.19	*9.51*	25.07	*7.64*
2004	28.36	*8.43*	29.34	*10.21*	29.05	*10.95*	29.37	*9.63*
2005	29.72	*9.44*	32.47	*10.27*	31.70	*11.61*	25.78	*9.02*
2007	28.62	*9.62*	30.97	*11.43*	33.33	*12.29*	24.31	*4.80*
2008	27.27	*7.94*	28.33	*8.46*	29.59	*9.69*	24.83	*6.48*
2011	27.65	*7.22*	27.87	*9.68*	27.54	*8.50*	30.64	*7.75*
2012	29.15	*9.63*	28.37	*7.88*	26.72	*6.14*	28.19	*8.57*

Source: The Labor Force Survey (2002, 2004-2005, 2007-008, and 2011-2012)

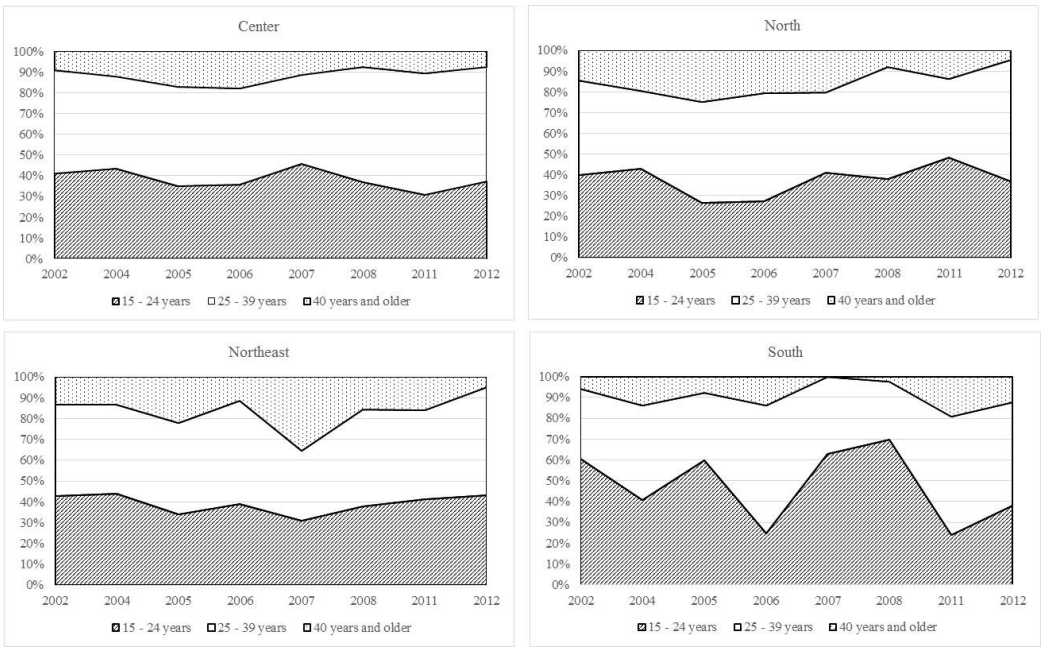

Figure 3-8 Proportion (in percentage) of The Group 2 Migrants aged 15 to 24, 25 to 39 and 40 and over in 2002, 2004-2008, and 2011-2012

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

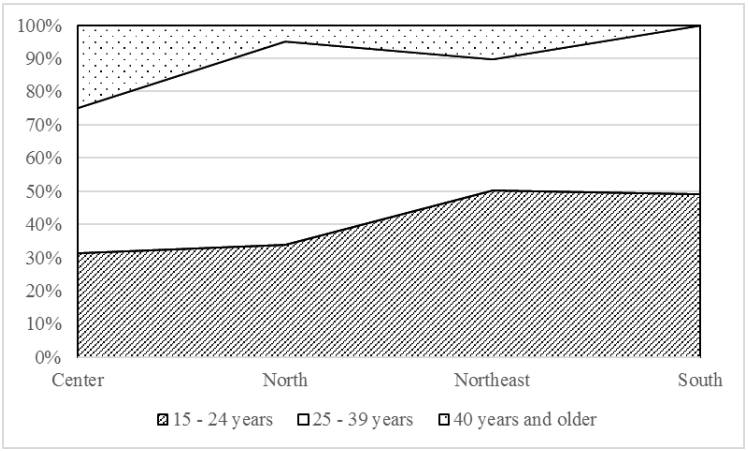

Figure 3-9 Proportion (in percentage) of The Group 3 Migrants aged 15 to 24, 25 to 39 and 40 and over in 2011

Source: The Labor Force Survey (2011)

3.2.2.3 Marital Status

The married workers were more tied by their families than the single workers, and thus, they were less likely to migrate (Phan & Coxhead, 2010). Nonetheless, this trend was unnoticeable across the regions of Thailand as depicted in Figure 3-11 and Figure 3-12. More than 50% of group 1 migrants were married workers in the Center and Northeast. For the North and South, the married workers constituted a relatively large share only in 2011 and 2012 (~ 50%-80%). It was notable that the number of married migrants had gradually increased since 2006 in all regions except for the North. This seemed to be contradict the result of Phan & Coxhead (2010) who studied inter-provincial migration in Vietnam. For the group 2 migrants, who decided to return to their hometowns, the past articles on Thailand (Gordon F. De Jong et al., 1996; Junge et al., 2015) indicated that married workers were more likely to return to their hometowns. This was consistent with the numbers in Figure 3-11 that depicts the married workers accounted for 50-60% of group 2 migrants for all regions except for the South. Even though the number of single workers fluctuated from year to year in the South, its share was around 60% higher than the other regions, distinctively. In 2011, the migrants of group 3 were clearly dominated by the married workers (Figure 3-12). The percentages of married migrants were 36%, 72%, 98%, and 44% in the Center, North, Northeast, and South, respectively.

In conclusion, the dominance of married workers was noticeable for all groups of migrants except for the group 2 in the Southern region. The married workers had relatively high family ties that caused them to avoid the South Thailand insurgency although the Southern areas contained their hometowns.

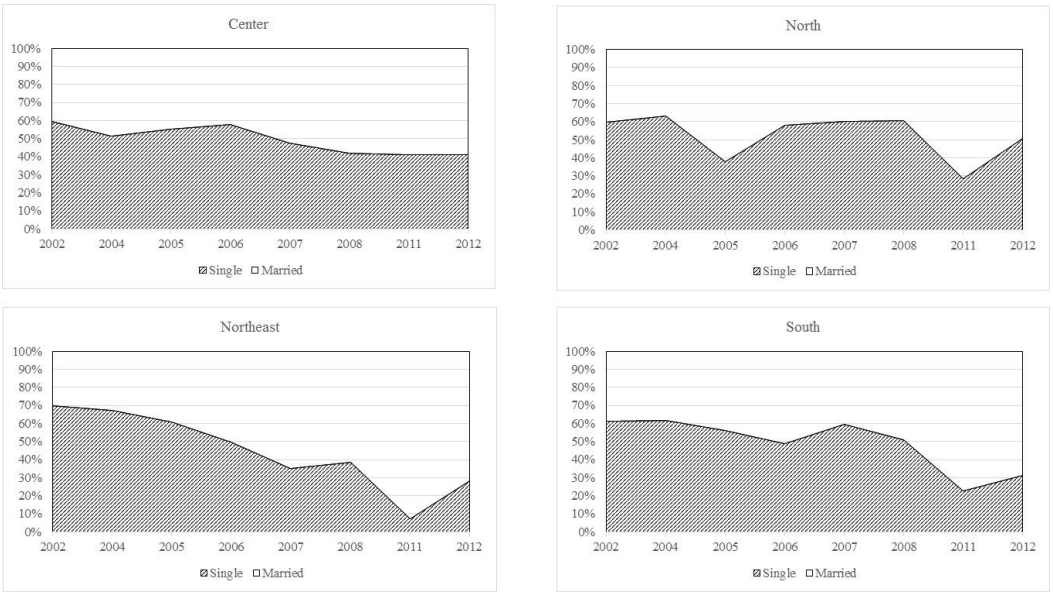

Figure 3-10 The Proportion (in percentage) of Single and Married Migrants for Group 1 in 2002, 2004-2008, and 2011-2012.

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

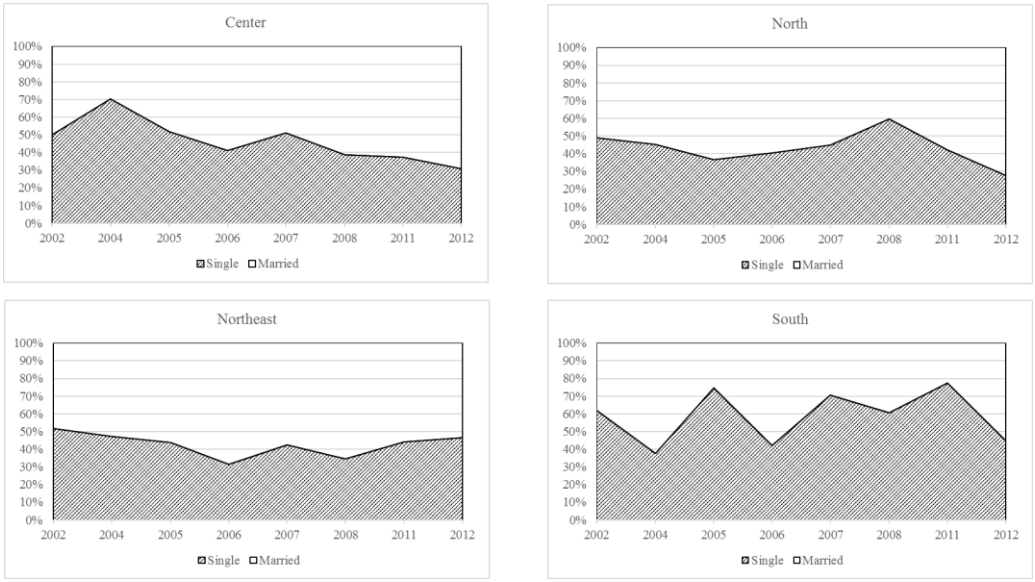

Figure 3-11 The Proportion (in percentage) of Single and Married Migrants for Group 2 in 2002, 2004-2008, and 2011-2012

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

Figure 3-12 The Proportion (in percentage) of Single and Married Migrants for Group 3 in 2011

Source: The Labor Force Survey (2011)

3.2.2.4 Educational Attainments

Education Attainment was the highest level of education that a worker had reached. The highest educational attainments of individual were categorized into 15 classes during 2002-2005 and 17 classes during 2007-2012 by the National Statistical Office (NSO) of Thailand. Based on the NSO's classification, this research further grouped them into 7 classes in order to achieve an evenly distributed sample across the years. The classification of highest educational attainment was defined as follows:

- None of educational attainment: a worker with no schooling or who completed kindergarten.
- Less than elementary: a worker who obtained some schooling, but did not reach elementary graduation.
- Elementary: a worker who completed grade 6.
- Lower secondary: a worker who completed grades 7, 8, or 9.

- Upper secondary: a worker who completed grades 10, 11, or 12 or an equivalent that includes a vocational certificate.
- Post secondary: a worker who reached an occupational certificate from a postsecondary institute, high vocational certificate, vocational diploma, technical certificate, associate's degree, college certificate, or another non-certificate or diploma below the bachelor level and above a grade 12 equivalency certificate.
- University degree: a worker who received a bachelor's degree, university certificate or diploma, higher technical diploma, master's degree, or doctorate. In other words, a worker who obtained a bachelor's degree or equivalent or higher.

These educational attainments enabled us to clarify the labor qualification. In the Thai labor market, an initial income relied on the worker's highest educational attainment. For example, the initial income offered to a worker who obtained a bachelor's degree was definitely higher than a worker who had just completed the elementary education.

The share of group 1 migrants with a lower secondary graduation classification were dominant across regions as shown in Table 3.5 and Table 3.6. In the Center, migrants with elementary and lower secondary education accounted for at least 50% of the total migrants except in 2012. In most years, these shares were also relatively high in the Northeast and South representing 60-80% and 50-70% respectively. Nonetheless, in the Northeast, migrants with upper secondary level comprised 33% of group 1 migrants that had the highest share in 2004 and 2008. For the North, the migrants who reached lower and upper secondary level education constituted the share of 40-60% in 2002 and 2004-2007. Regarding a lower secondary level education only, the share was incredibly high in 2011 and 2012 (70% and 52% respectively). This may have indicated that the

violent protests and severe flooding mainly affected migrants with the lower secondary graduation to migrate to the North in order to look for a new job.

The shares of group 2 migrants by educational attainment were different from group 1. The migrants with elementary graduation were most numerous during 2002-2006; however, in 2007-2008 and 2011-2012, it was dominated by the share of migrants who completed the lower secondary level. This pattern was distinguishable for the Center and North as shown in Table 3.7. The highest shares of migrants, which were approximately 26-48%, fell to the elementary level during 2002-2006 and turned to the lower secondary level during 2011-2012 for the Center region. Similarly, the highest shares in the North were approximately 29-44% and fell to the elementary level during 2002-2006 and then moved to the lower secondary education during 2007-2012. The Northeast also showed a similar pattern; however, the magnitudes of highest shares were higher than the other regions (~35-54%) as shown in Table 3.8. For the Southern region, the share of migrants with an elementary education were higher than the other levels in 2002, 2004, 2005, and 2008. The highest shares fell to the lower secondary level in 2006, 2007, and 2011. In 2012, the migrants with the upper secondary level accounted for the highest share at 27% compared to 22% for the lower secondary level. Because the migrants with elementary and lower secondary level education accounted for the higher shares than the other levels, it was possible to conclude that the migrants with relatively low education were more likely to migrate. Nonetheless, this phenomenon did not occur during a few years. For example, in the Northeast, the group 1 migrants with a university degree accounted for the second-ranked shares that were 24% and 21% in 2005 and 2006, respectively, compared to the respective shares of 29% and 20% for the lower secondary level. Moreover, in the Center, the group 2 migrants with a university degree constituted 25.53%

and were about the same as the share of migrants who accomplished the elementary level (25.72%). Overall, the group 1 migrants had the higher educational attainment than group 2 on average. Junge et al. (2015) argued that low education was a significant factor for returning to Thai workers' home villages.

In 2011, the group 3 migrants with elementary graduation constituted the highest shares of total migration that were 67% and 91% in the Northeast and South, respectively (Table 3.9). For the Center and North, the migrants who reached the lower secondary level represented the highest shares that were 26% and 60%, respectively. Hence, for the group 3, the migrants with relative low education were more likely to migrate which was the same as group 1 and 2.

All groups of migrants accounted for the shares of educational attainment in a similar pattern. In other words, the migrants were not widely distributed across the educational attainment scale. They were concentrated in the level of elementary and lower secondary education in most years. The past studies on Thailand and Vietnam (Amare et al., 2012; de Brauw & Harigaya, 2007; Phan & Coxhead, 2010) also indicated that the migrants generally gained the educational level of elementary and lower secondary education, which was higher than the non-migrants on average, and summarised that the well-educated workers were more likely to migrate. The relatively high education in such studies thus meant elementary and secondary school education without consideration of post-secondary and university degrees. These studies clash with the context of this research that emphasized the elementary and secondary schools as the relative low educational level and the postsecondary or above as the relative high educational level. However, Gordon F. De Jong et al. (1996) and Fuller et al. (1985) argued that the migrant's educational level was

unrelated to the migratory decision unless its value measures were taken into account. To clarify, education did not affect labor migration directly, but did affect the migrant's wage that ultimately influenced their chosen destinations. As a result, this research considered the educational attainment as a factor of counterfactual wage estimation only.

Table 3.5 The Proportion (in percentage) of Group 1 Migrants by Educational Attainment in the Center and North in 2002, 2004-2008, and 2011-2012

Year	Center						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	1.92%	9.99%	33.18%	31.19%	15.67%	5.10%	2.94%
2004	1.37%	10.69%	28.77%	24.30%	24.29%	7.10%	3.48%
2005	2.43%	8.48%	22.13%	29.63%	22.59%	6.01%	8.73%
2006	1.50%	10.42%	22.87%	27.35%	24.32%	8.16%	5.38%
2007	3.52%	7.56%	27.17%	31.48%	23.32%	4.59%	2.35%
2008	2.84%	16.20%	28.56%	26.56%	12.48%	7.90%	5.46%
2011	2.21%	5.46%	28.53%	24.14%	21.46%	3.65%	14.55%
2012	12.27%	18.17%	20.23%	14.46%	15.04%	4.34%	15.49%
Year	North						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	7.48%	6.70%	7.00%	35.69%	26.38%	4.43%	12.32%
2004	6.72%	11.37%	16.14%	42.60%	13.12%	4.72%	5.32%
2005	2.06%	1.05%	11.86%	28.79%	24.32%	8.23%	23.70%
2006	3.79%	12.02%	22.25%	20.45%	18.57%	2.38%	20.54%
2007	17.66%	6.08%	6.64%	14.24%	30.36%	12.15%	12.86%
2008	5.80%	15.92%	26.08%	15.08%	17.90%	11.93%	7.29%
2011	0.00%	4.94%	1.86%	70.74%	16.11%	0.00%	6.35%
2012	0.00%	25.33%	8.21%	52.17%	0.00%	10.86%	3.43%

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

Table 3.6 The Proportion (in percentage) of Group 1 Migrants by Educational Attainment in the Northeast and South in 2002, 2004-2008, and 2011-2012

Year	Northeast						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	0.80%	1.85%	27.37%	45.94%	14.74%	7.04%	2.25%
2004	0.00%	8.53%	30.85%	21.93%	32.62%	5.50%	0.55%
2005	3.41%	6.00%	61.69%	19.45%	7.29%	1.70%	0.46%
2006	4.88%	11.14%	56.13%	5.06%	8.95%	0.67%	13.17%
2007	0.60%	8.75%	46.22%	22.28%	16.88%	0.59%	4.68%
2008	0.00%	10.33%	16.34%	20.99%	33.28%	3.70%	15.37%
2011	0.00%	21.31%	37.98%	36.70%	3.04%	0.00%	0.96%
2012	0.00%	12.23%	24.83%	43.93%	19.01%	0.00%	0.00%
Year	South						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	0.69%	9.73%	35.18%	29.22%	12.64%	6.63%	5.91%
2004	1.41%	16.52%	29.64%	21.50%	22.76%	2.14%	6.04%
2005	0.00%	15.07%	17.33%	21.97%	9.60%	14.89%	21.14%
2006	3.85%	16.10%	21.73%	18.33%	17.73%	6.28%	15.98%
2007	15.40%	7.11%	20.57%	20.74%	18.76%	4.60%	12.82%
2008	10.15%	14.11%	23.77%	25.76%	11.06%	7.47%	7.68%
2011	1.05%	6.41%	0.00%	68.79%	6.22%	1.07%	16.46%
2012	0.00%	0.54%	37.65%	27.16%	22.83%	8.90%	2.92%

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

Table 3.7 The Proportion (in percentage) of Group 2 Migrants by Educational Attainment in the Center and North in 2002, 2004-2008, and 2011-2012

Year	Center						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	3.09%	17.23%	44.97%	23.98%	5.87%	1.75%	3.11%
2004	0.00%	11.02%	31.82%	12.37%	29.52%	6.53%	8.75%
2005	3.04%	15.48%	34.94%	11.82%	23.35%	0.78%	10.59%
2006	3.88%	16.42%	25.72%	12.30%	15.18%	0.97%	25.53%
2007	0.00%	7.62%	24.51%	29.74%	13.24%	9.80%	15.08%
2008	0.00%	0.48%	47.62%	29.37%	5.00%	8.21%	9.31%
2011	0.00%	6.82%	15.12%	33.80%	25.30%	5.56%	13.40%
2012	0.00%	4.53%	16.70%	48.01%	16.48%	2.76%	11.54%
Year	North						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	2.57%	19.29%	34.57%	17.74%	15.20%	3.02%	7.60%
2004	2.42%	19.09%	33.68%	21.06%	10.95%	2.96%	9.84%
2005	7.10%	27.06%	28.52%	18.00%	10.07%	2.15%	7.11%
2006	1.36%	26.81%	37.56%	13.26%	6.10%	6.14%	8.77%
2007	6.57%	17.56%	20.06%	29.68%	14.10%	3.49%	8.54%
2008	0.00%	20.62%	15.73%	28.70%	21.88%	5.99%	7.07%
2011	6.98%	3.30%	3.32%	40.60%	29.96%	2.55%	13.29%
2012	0.00%	8.76%	22.13%	44.35%	20.13%	3.19%	1.44%

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

Table 3.8 The Proportion (in percentage) of Group 2 Migrants by Educational Attainment in the Northeast and South in 2002, 2004-2008, and 2011-2012

Year	Northeast						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	1.39%	17.27%	45.84%	18.14%	11.35%	1.73%	4.28%
2004	1.21%	15.95%	41.57%	24.04%	13.62%	2.39%	1.22%
2005	1.16%	25.18%	34.53%	22.52%	13.37%	0.60%	2.63%
2006	0.00%	14.97%	39.31%	24.33%	15.29%	3.55%	2.55%
2007	1.71%	27.19%	39.44%	18.85%	8.21%	0.15%	4.45%
2008	0.00%	10.67%	40.46%	24.75%	15.27%	0.57%	8.28%
2011	5.02%	11.35%	12.51%	46.99%	14.36%	9.49%	0.27%
2012	0.00%	2.38%	17.77%	54.37%	18.78%	0.88%	5.82%
Year	South						
	None	Less than elementary	Elementary	Lower secondary	Upper secondary	Postsecondary	University degrees
2002	0.00%	13.73%	34.95%	19.48%	14.74%	0.50%	16.59%
2004	0.94%	17.56%	40.66%	23.40%	1.80%	0.00%	15.64%
2005	0.00%	10.01%	23.19%	17.03%	16.28%	2.62%	30.88%
2006	0.00%	10.21%	22.70%	30.57%	14.78%	0.97%	20.77%
2007	0.00%	2.48%	12.46%	57.48%	12.30%	3.75%	11.52%
2008	0.00%	10.14%	33.91%	22.40%	15.30%	0.00%	18.25%
2011	10.22%	0.00%	15.48%	48.56%	19.26%	2.70%	3.78%
2012	0.64%	5.14%	9.48%	22.26%	27.01%	0.00%	35.47%

Source: The Labor Force Survey (2002, 2004-2008, and 2011-2012)

Table 3.9 The Proportion (in percentage) of Group 3 Migrants by Educational Attainment in 2011

	Center	North	Northeast	South
None	0.92%	0.00%	0.00%	0.00%
Less than elementary	18.03%	0.00%	0.00%	0.00%
Elementary	12.05%	31.13%	67.02%	90.57%
Lower secondary	26.41%	60.39%	0.00%	0.00%
Upper secondary	16.21%	0.00%	32.98%	0.00%
Postsecondary	3.92%	8.48%	0.00%	0.00%
University degrees	22.46%	0.00%	0.00%	9.43%

Source: The Labor Force Survey (2011)

3.2.2.5 Wages

The term of wage in this research was the monthly wage that was calculated from the summation of salary, bonus, overtime pay, and other benefits per month. Examples of other benefits were rental costs, meals, clothes, and shares of crop as a cash or non-cash payment per month. This wage was collected from full-time and part-time workers. The full-time workers were required to work at least 40 hours per week. If workers were working a part-time job during a week before interviewing, the wage would be calculated from this part-time job as a monthly payment. In this way, if workers did nothing during other times except for the week before interviewing, they were considered as employed workers. If workers have several part-time jobs, the job that provided the maximum hours was counted regardless of the others. Because of this operation, the employment rate of Thailand was relatively high (see the details in 3.2.3.1)

The main objective of this research was to clarify the role of wages in the internal labor migration of Thailand. To achieve this objective, the two relevant factors of wage needed to be considered. These factors were the difference in personal characteristics and the geographical wage differentials. The personal characteristics were gender, marital status, age, and educational

attainment. The diverse personality traits reflected differences in skills that originated different tasks or productivities with different levels of wages. The gender wage gap was the most common study and the best example regarding the question of how personality traits affect wages. The wages were also diverse across regions or provinces. Because each region had dissimilar resources and attributes, they sorted out into various occupations across regions with different structure of wages. Hence, the wage differentials were recognizable due to the diversities of personal characteristics and local attributes.

To begin with, Table 3.10 shows the average monthly wage of single migrants from group 1 by gender and educational attainment. As mentioned in the previous section, age and education represented the skill levels of migrants. A higher age meant a higher level of experience that was reflected in higher wages, and likewise higher education enabled workers to earn greater initial salaries. The average wages of single males were slightly higher than females in most educational level. The single male migrants with elementary education (~4,000–8,000 Baht or $115-$255 USD) were significantly lower than the migrants with the university degrees (~8,000–29,000 Baht or $255-$839 USD)[8]. In the meantime, the single female migrants with elementary and university education acquired a monthly wage of around 4,000–5,700 Baht (~$115-$165 USD) and 6,600-15,000 Baht (~$191-$434 USD), respectively. It was also difficult to conclude that single migrants had higher average wage than married migrants significantly, as shown in Table 3.11. A possible reason of the relatively low wage for married migrants was the parenthood penalty (Budig & England, 2001; Lundberg & Rose, 2000). The parent's responsibility for their children's

[8] 1 USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*)

nurturance reduced their working hours and productivities, and thus, married workers received lower wages than single workers. However, according to the data of this research, the single migrants with relative high wages compared to married migrants did vary across gender, education levels, and years. For example, the average monthly wages of single female migrants with less than elementary and postsecondary educations was 12% and 15% higher than married female migrants, respectively, in 2006; in the meanwhile, the average monthly wage of single male migrants was lower than married male migrants around 33% and 63% for those achieved less than elementary and upper secondary educations, respectively, in 2012.

The group 2 migrants had similar pattern of wage differentials between gender and educational attainment, as shown in Table 3.12 and Table 3.13. The single male migrants of group 2 earned a significantly higher average wage than the females, and overall average monthly wages were around 2,200-4,400 Baht and 1,500-4,300 Baht for the single males and females with elementary education, respectively. The average wages of married migrants in group 2 were also significantly lower than the single migrants which was similar to group 1 results. Overall, the group 2 migrants had low average wages relative to the group 1 migrants. This possibly indicated that the group 2 migrants consisted of low-skilled workers; and hence, they had a low opportunity to get a job in urban areas and would rather move back to their hometowns. For group 3 migrants, most of them reached the elementary education and earned the average monthly wages around 2,400 – 6,000 Baht.

Table 3.10 Average Monthly Wage (in Thai Baht) of Single Migrants from Group 1 in 2002, 2004–2008, and 2011-2012

	2002		2004		2005		2006	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	4955.50	6992.57	4106.05	2365.94	2988.39	3345.11	3396.95	2893.10
	(1068.17)	(3297.78)	(432.95)	(309.45)	(1292.06)	(692.51)	(442.95)	(1442.60)
Less than Elementary	4797.52	5568.54	5135.67	3865.28	4726.73	4040.35	3631.23	4398.28
	(1311.88)	(1460.13)	(1944.71)	(978.44)	(1458.01)	(929.97)	(1401.46)	(992.68)
Elementary	5593.00	5664.51	4497.31	4071.27	4188.73	3865.55	4969.79	4170.97
	(2339.55)	(1229.08)	(1648.75)	(993.48)	(1647.73)	(1060.81)	(1577.48)	(1633.25)
Lower Secondary	5594.35	5828.33	4492.09	4414.19	5038.58	4934.47	4872.99	4564.16
	(1490.97)	(2730.25)	(2170.14)	(1150.10)	(1758.56)	(1710.04)	(1526.22)	(995.49)
Upper Secondary	5709.46	6056.36	5246.78	4949.78	5019.17	5069.80	5398.37	5089.44
	(2771.80)	(2130.26)	(1441.78)	(1753.80)	(1787.95)	(1484.94)	(2331.63)	(1139.08)
Postsecondary	9030.10	7550.56	6203.76	4688.78	6056.02	6367.31	6500.28	5961.02
	(6181.73)	(4747.94)	(2114.77)	(1343.34)	(2219.02)	(1730.91)	(1536.33)	(1468.55)
University	16950.27	8560.14	10089.94	8576.85	6046.16	7935.92	8502.24	6617.60
	(13054.09)	(3638.81)	(4016.25)	(4853.23)	(3731.05)	(2675.56)	(3531.39)	(2915.05)

	2007		2008		2011		2012	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	4660.41	2314.43	4876.48	2946.92	7156.39	-	8012.78	6211.37
	(2545.09)	(726.01)	(989.26)	(1253.97)	(2849.56)		(799.06)	(598.11)
Less than Elementary	6793.00	4947.68	5973.97	4965.27	-	3674.58	7234.69	5245.69
	(3154.82)	(1407.30)	(1023.36)	(1188.69)		(1521.83)	(918.11)	(961.61)
Elementary	4523.55	4190.67	5033.56	4381.12	4893.99	4835.63	7889.25	4596.07
	(1439.34)	(1705.94)	(1970.25)	(1443.06)	(347.57)	(623.60)	(3559.62)	(1958.84)
Lower Secondary	5252.48	5383.00	5337.83	5997.49	6784.13	7996.17	15791.65	6655.10
	(1866.23)	(2090.76)	(1163.02)	(1439.60)	(1489.57)	(4273.36)	(15254.29)	(444.15)
Upper Secondary	5292.08	5512.92	5538.22	6217.12	7307.16	5541.84	6882.04	10348.95
	(1529.96)	(2035.25)	(2864.97)	(1896.47)	(2435.59)	(666.00)	(3140.68)	(2890.25)
Postsecondary	6183.64	6925.06	7735.49	9108.71	5050.60	4744.40	8685.95	-
	(1358.50)	(1739.90)	(1844.31)	(5035.82)	(69.94)	(554.70)	(1265.62)	
University	8077.78	8439.87	8237.84	11215.28	12623.16	15389.96	28735.61	14478.25
	(1860.36)	(3194.47)	(1833.24)	(3961.32)	(1660.44)	(5745.88)	(12281.22)	(4654.97)

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Note: Standard deviations in parentheses.

Table 3.11 Average Monthly Wage (in Thai Baht) of Married Migrants from Group 1 in 2002, 2004–2008, and 2011-2012

	2002		2004		2005		2006	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	3818.42	4178.49	3170.34	3633.95	3986.46	4637.50	3297.82	2890.18
	(724.89)	(126.68)	(1290.47)	(1101.83)	(593.05)	(197.22)	(567.38)	(323.38)
Less than Elementary	5254.98	4558.56	5846.89	4477.58	5204.57	4511.87	6648.03	3926.31
	(1917.74)	(2482.15)	(3854.47)	(1453.21)	(2132.96)	(574.03)	(3440.80)	(1432.99)
Elementary	5986.77	5005.24	5911.45	4590.69	5058.67	4290.12	4516.96	4528.98
	(2767.57)	(1273.13)	(5732.08)	(940.19)	(2448.58)	(1064.47)	(2071.70)	(2073.33)
Lower Secondary	5618.81	6409.45	5761.04	4457.85	4789.03	4463.89	5018.32	4596.09
	(2589.54)	(6742.14)	(3018.22)	(1003.14)	(1585.76)	(1655.87)	(1997.18)	(602.69)
Upper Secondary	5927.45	5205.65	5008.05	4601.47	6660.80	5088.43	5427.86	5095.79
	(1944.87)	(1674.47)	(1614.25)	(1400.14)	(2986.31)	(1705.21)	(1644.93)	(885.28)
Postsecondary	6067.90	8070.62	6316.44	5919.58	5656.98	4997.60	7448.88	5165.62
	(1217.16)	(4251.04)	(1310.48)	(1957.35)	(1840.35)	(1366.74)	(2595.14)	(75.49)
University	70735.08	9840.89	14887.09	5349.30	6041.98	7081.03	11659.95	8296.08
	(42884.37)	(2251.00)	(8832.53)	(1012.29)	(1089.37)	(3153.57)	(2964.55)	(3154.81)

	2007		2008		2011		2012	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	3912.43	3971.47	5520.81	4469.99	-	-	7319.48	6905.69
	(1473.20)	(1250.64)	(831.76)	(813.23)			(1105.18)	(602.90)
Less than Elementary	5544.57	6132.01	5601.83	4751.24	4421.84	1955.14	9634.44	9232.76
	(3535.81)	(2053.71)	(1821.45)	(2203.39)	(1594.69)	(721.81)	(2657.90)	(3633.36)
Elementary	5733.55	5315.36	6468.97	5403.67	7103.19	4961.68	7316.94	6730.87
	(1700.22)	(1009.77)	(2884.19)	(1572.42)	(1464.40)	(1195.40)	(3096.15)	(1625.03)
Lower Secondary	5268.88	6099.37	5055.53	5844.36	8120.72	13399.86	7802.42	7267.60
	(1318.87)	(2978.27)	(2089.36)	(1871.40)	(8889.05)	(11520.27)	(2457.46)	(2953.41)
Upper Secondary	5907.72	5404.19	5556.52	5981.20	6178.21	6374.53	11243.56	7937.80
	(2522.51)	(2447.57)	(2646.57)	(2005.32)	(536.55)	(1633.52)	(2947.00)	(722.50)
Postsecondary	6585.01	5011.66	6159.43	5264.76	-	6731.57	8540.90	10408.11
	(1853.56)	(1031.24)	(2436.70)	(192.46)		(857.62)	(3572.26)	(2814.49)
University	8930.39	7603.70	16810.72	11184.92	29920.81	7565.76	20421.74	13535.64
	(1325.75)	(2254.13)	(6066.90)	(6829.56)	(7621.52)	(496.77)	(8620.69)	(498.96)

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Note: Standard deviations in parentheses.

Table 3.12 Average Monthly Wage (in Thai Baht) of Single Migrants from Group 2 in 2002, 2004–2008, and 2011-2012

	2002		2004		2005		2006	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	-	-	-	2395.20	-	-	2011.56	4316.00
				(718.94)			(598.08)	(612.74)
Less than Elementary	3270.39	2590.39	2410.41	4597.47	1987.43	2359.74	3214.40	2464.61
	(770.14)	(884.21)	(1198.87)	(3138.79)	(1197.99)	(913.81)	(690.61)	(1029.45)
Elementary	2372.68	2197.82	2255.49	3154.77	2745.25	1468.09	2898.10	2395.30
	(1416.23)	(1795.57)	(1429.77)	(1129.43)	(1007.02)	(1173.38)	(1535.55)	(881.94)
Lower Secondary	2944.32	1123.97	2473.88	1074.44	2957.68	4457.19	3807.94	4165.34
	(1190.31)	(458.91)	(1297.21)	(761.05)	(966.94)	(1348.89)	(1407.06)	(1027.39)
Upper Secondary	3282.42	3439.27	3332.58	3313.72	3218.34	3971.92	5008.92	4228.25
	(679.57)	(982.97)	(1827.20)	(533.44)	(1485.83)	(1894.70)	(2965.44)	(250.33)
Postsecondary	4476.36	4835.57	4031.83	4659.34	6015.62	3408.13	7140.62	3327.70
	(1445.45)	(686.73)	(1717.47)	(942.55)	(1210.58)	(529.81)	(864.24)	(793.53)
University	7685.78	10984.99	8398.04	5570.78	9476.16	6694.25	2478.82	8468.22
	(3130.96)	(18937.09)	(10942.16)	(1614.26)	(7095.95)	(2183.02)	(1919.14)	(3103.35)

	2007		2008		2011		2012	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	-	1054.66	-	-	6032.49	5025.77	-	-
		424.61			424.73	278.54		
Less than Elementary	1832.98	1758.46	4506.74	2925.99	2122.54	3346.51	4503.47	4742.58
	(920.48)	(1384.93)	(865.23)	(325.04)	(927.34)	(1010.53)	(1225.46)	(250.00)
Elementary	3137.01	3088.85	4431.89	2266.67	4350.76	2067.88	4055.06	4312.74
	(2164.06)	(1085.54)	(2573.04)	(1372.50)	(555.34)	(624.83)	(1407.92)	(1280.97)
Lower Secondary	3043.24	1949.93	3191.86	3462.70	4583.05	5155.32	6010.53	4808.17
	(1521.20)	(729.22)	(965.89)	(1491.05)	(1594.68)	(560.36)	(1375.85)	(1576.85)
Upper Secondary	4482.66	4981.11	6145.18	4239.80	5733.43	4304.53	6603.27	7698.54
	(992.66)	(3678.33)	(2763.06)	(1185.11)	(1602.23)	(1602.94)	(4392.59)	(1082.59)
Postsecondary	-	3077.84	6190.62	5149.09	6135.42	5718.22	6203.27	6445.83
		(907.86)	(983.35)	(228.88)	(1190.47)	(2174.67)	(1058.37)	(464.45)
University	8264.21	8318.81	8796.01	6332.09	7509.73	8164.96	13811.46	8988.45
	(3765.17)	(3270.97)	(3597.03)	(1523.76)	(1964.58)	(1902.97)	(3187.69)	(2104.01)

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Note: Standard deviations in parentheses.

Table 3.13 Average Monthly Wage (in Thai Baht) of Married Migrants from Group 2 in 2002, 2004–2008, and 2011-2012

	2002		2004		2005		2006	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	4200.20	3500.47	3438.53	1992.02	3983.44	1923.76	2469.12	-
	(1542.05)	(1928.43)	(1894.54)	(488.63)	(1576.36)	(1582.97)	(895.46)	
Less than Elementary	6303.10	1748.56	3084.27	2358.95	2786.75	1747.47	3488.69	2027.84
	(17931.23)	(810.96)	(1874.96)	(1276.04)	(1900.47)	(932.63)	(1895.58)	(1486.49)
Elementary	2410.03	2550.40	2549.35	2453.04	3220.49	1775.27	3518.76	2392.03
	(2074.57)	(1498.95)	(1712.96)	(1387.75)	(3099.09)	(1157.00)	(1795.96)	(1141.10)
Lower Secondary	3283.02	3345.37	3860.22	1613.29	2288.72	4035.00	3507.42	2758.84
	(1248.03)	(1234.91)	(2081.08)	(939.72)	(1789.64)	(3067.46)	(1532.97)	(907.53)
Upper Secondary	4629.80	2293.58	3320.41	2818.35	4465.05	3538.93	4647.20	3696.01
	(3370.22)	(1975.50)	(2827.38)	(1199.12)	(1688.87)	(1148.67)	(5379.43)	(597.58)
Postsecondary	23211.10	3824.43	3205.31	3641.26	-	-	5591.48	1334.31
	(13808.47)	(689.46)	(413.84)	(438.99)			(611.22)	(1968.44)
University	5002.48	5150.03	4800.74	9499.55	4375.80	5211.84	-	4586.92
	(1523.47)	(1729.56)	(514.52)	(6509.69)	(413.70)	(1345.32)		(2369.24)

	2007		2008		2011		2012	
	Male	Female	Male	Female	Male	Female	Male	Female
None Education	1220.47	1549.66	-	-	3482.05	-	476.32	-
	(375.44)	(296.37)			(445.59)		(96.28)	
Less than Elementary	3826.09	1868.61	3445.00	1549.12	3628.21	5119.45	9176.44	4174.07
	(3300.50)	(759.10)	(1605.83)	(746.46)	(1506.08)	(1624.88)	(6690.68)	(1796.35)
Elementary	4498.42	2453.85	4415.29	2952.43	4610.29	4035.55	8011.42	5037.20
	(2233.45)	(1152.35)	(1890.72)	(1440.45)	(1946.02)	(2125.50)	(6035.96)	(1821.43)
Lower Secondary	4499.87	3008.86	4365.71	4677.57	5637.85	4222.39	7100.98	5685.82
	(1180.56)	(1904.18)	(2025.35)	(1009.92)	(3118.39)	(613.39)	(1881.37)	(2257.04)
Upper Secondary	4058.27	5005.95	5785.83	3483.21	6143.70	5083.86	6451.25	5595.05
	(2273.67)	(2909.30)	(2531.32)	(376.20)	(1524.48)	(1597.02)	(1269.05)	(1538.78)
Postsecondary	7843.71	5336.15	7622.08	1715.61	6123.46	6088.56	8023.58	8628.02
	(2657.20)	(942.81)	(558.34)	(1415.84)	(1926.54)	(1154.40)	(1578.24)	(1709.43)
University	-	13166.16	.	6508.92	11277.09	8017.78	13069.77	10393.17
		(6236.31)		(1156.75)	(6818.99)	(2175.82)	(1891.01)	(4550.88)

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Note: Standard deviations in parentheses.

Another influence on wage differentials was the worker's occupation or task. In this context, the types of occupation were considered as two sectors, agriculture and non-agriculture. Table 3.14 compares the average monthly wages between agricultural and non-agricultural sectors for group 1 and group 2. For group 1, migrants in the non-agricultural sectors received average monthly wages (~5,200–9,700 Baht) that were significantly higher than those for migrants in the agricultural sector (~3,100-6,600 Baht). The group 2 of migrants also showed the same pattern as group 1; however, the average monthly wages were relatively low for the group 2, approximately 3,600-7,000 Baht in non-agriculture and 1,800-6,000 Baht in agriculture. For group 3, the average monthly wages of all migrants were 3,100 Baht and 5,900 Bath in agriculture and non-agriculture, respectively.

Table 3.14 Average Monthly Wages (in Thai Baht) by Group and Sector in 2002, 2004-2008, and 2011-2012

	Group 1				Group 2			
	Agriculture		Non-agriculture		Agriculture		Non-agriculture	
	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*	Mean	*S.D.*
2002	5114.27	*2527.16*	6179.97	*5064.66*	2843.55	*9460.60*	4297.34	*6731.53*
2004	3227.95	*1973.37*	5228.20	*2892.68*	1972.08	*1412.70*	3593.05	*2719.46*
2005	3569.50	*2215.16*	5219.85	*2092.85*	1785.07	*1013.03*	4154.46	*2755.51*
2006	3139.24	*2112.57*	5382.45	*2027.89*	1935.65	*1117.73*	4032.05	*2262.63*
2007	3912.64	*2056.59*	5699.88	*2776.37*	2054.83	*1349.78*	4758.83	*3015.31*
2008	3328.37	*1745.34*	6279.23	*2772.01*	2049.90	*1134.00*	4788.17	*2095.69*
2011	6589.77	*3509.57*	8506.43	*6935.12*	3939.24	*1802.36*	5407.83	*2155.96*
2012	6264.13	*4087.21*	9739.77	*6536.69*	5985.50	*5878.16*	6896.62	*2699.89*

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Note: Standard deviations in parentheses.

In conclusion, the wage differentials based on the personal characteristics are summarized by the following sentences. The average wages of the males were significantly higher than those for females. The married migrants received a relative low wage, and the low average wages were also a penalty for migrants with the low education level. The migrants in the non-agricultural sector earned a higher wage relative to those in the agricultural sector. These wage differentials due to personal characteristics and geographical attributes required an approach to construct the counterfactual wages that are described in the next chapter.

3.2.3 Provincial Attributes

A worker chooses a destination associated with its subsequent benefits. Besides the wage rate, the benefits can be measured by the labor market conditions and local economies, as mentioned in the section 2.2. This research used employment rates to represent labor market conditions. The provincial employment rates accounted for the probability of getting a job which was a potential determinant of labor migration, especially for workers who were looking for a job. The other potential determinants were the local attributes of food and housing expenses. These factors corresponded to the living costs at the destination. Altogether, the provincial attributes included employment rates, and food and housing expenses. The following sub-sections describe these attributes across destinations.

3.2.3.1 Employment Rates

The employment rate is the share of employed workers to the labor force. The definition of labor force in accordance with the Ministry of Labor of Thailand (ILO Regional Office for Asia and the Pacific, 2013) is quoted here:

> *"Labor force covers all persons aged 15 - 64 years who, during the Labor Force Survey week, were engaged in the labor force (either employed or unemployed) or were classified as seasonally inactive labor force (neither employed nor unemployed but were waiting for the appropriate season, as persons who usually worked without pay on farms or in business enterprises engaged in seasonal activities owned or operated by the head of the household or any other member of the household)" (p.13).*

For the definition of employed persons, the National Statistical Office of Thailand followed the International Labor Organization's definition (ILO Regional Office for Asia and the Pacific, 2013), as cited here:

> *"An employed person is someone aged 15 – 64 who, during the Labor Force Survey week, worked for at least one hour for wage/salary, profit, dividends or any other payment in kind or did not work at all or worked less than one hour but received wage/salary, profit from business enterprise or farm during a period of absence or did not receive wage/salary, profit from business that they would return to. Or it is someone who worked for at least one hour without pay in a business enterprise or on a farm owned or operated by the household head or family member" (p.17).*

According to these definitions, the unemployment rate of Thailand was fairly low relative to the other countries (Yuvejwattana, 2015). In 2012, the Thailand's unemployment rate of 0.7% was ranked as the fourth-lowest country in the world (International Labour Office, 2013). Regarding the employment rates for all provinces and years, the range was between 92.36% and 99.98% as illustrated in Table 3.15. The provinces with the highest employment rates were Ubon Ratchathani, Samut Songkhram, Chaiyaphum, Chumphon, Trat, Trang, and Prachuap Khiri Khan in 2002 and

2004, 2005, 2006, 2007, 2008, 2011, and 2012, respectively. Their employment rates were in the range of 99.47%-99.98%. It was obvious that the high employment rates were constituted in the tourism provinces. Ubon Ratchathani and Chaiyaphum have famous tourist attractions for hikers; whereas, the other provinces are popular for water activities.

Given these points, for all mentioned provinces, the relation between migration and employment rates were undecided as shown in Figure 3-13 proving a plot of in-migration against employment rate by province. The provinces with the high employment rates did not account for a relatively high number of migrants. The employment rate implied the probability of getting a job at destination; hence, the relation between the number of migrants and employment rate was expected to be positive. The group 1 migrants, who looked for a job at a destination, should have moved to a province with a relatively high employment rate corresponding to a high probability of obtaining a job. Similarly, high employment rates may have signaled a good economy inducing the group 3 migrants to create their own businesses. On the contrary, the group 2 migrants, who returned to their hometowns, may not have been impacted by the employment rates. The reason of an unidentified relation at this step was probably because the endogeneity problem. In the simple term, the employment rates might represent an aggregate demand for labor, and thus a province with a high employment rate will induce workers to migrate to. This will be clarified in the next chapter.

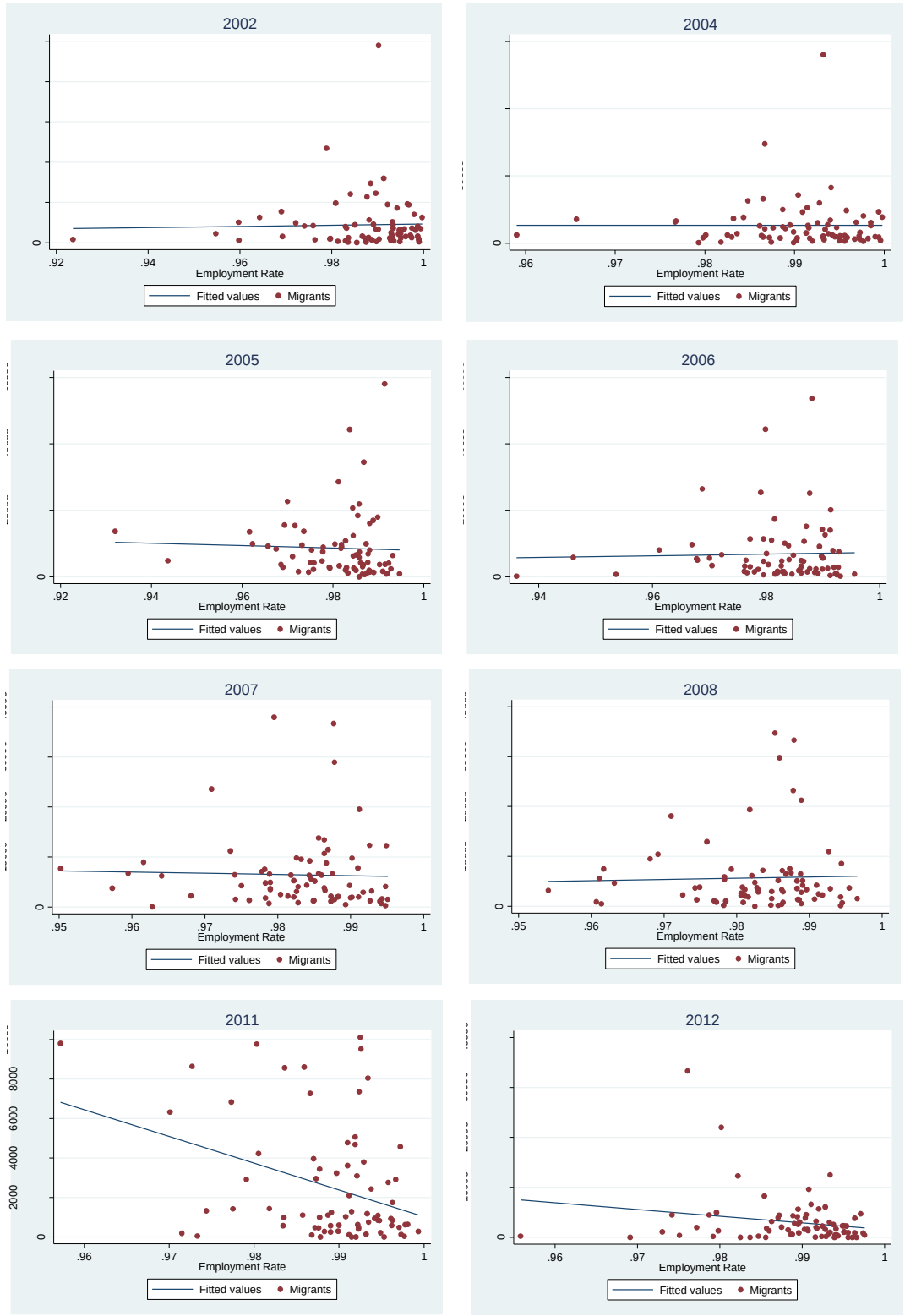

Figure 3-13 The Number of In-migrants and Employment Rate in 2002, 2004 – 2008 and 2011 - 2012
Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

3.2.3.2 Food Expenses

The average food expenses by province has been collected by the National Statistical Office for some years since 2002. According to the sample period of this research, it was available in 2002, 2004, 2006, 2007 and 2011. In this context, the food expense was the monthly expenditure on food and non-alcoholic beverages per employee. It has been provided as the average food and non-alcoholic expenses of all employees in each province; henceforth, this was the term of average food expenses in this research. The average food expenses by province will be considered in the following paragraphs.

Table 3.15 illustrated the average food expenses of all migrants by province of their chosen destinations. The average food expenses for the whole nation were between 3,628 and 5,995 Baht (~$105-$173 USD)[9] based on the years of data availability. Overall, it gradually increased every year. The average expenses of all provinces increased by 4.82% from 3,627 Baht in 2002 to 3,802.93 Baht in 2004, and sharply rose 18.26% to 4,497.26 Baht in 2006. From 2006 to 2007, there was a 5.33% increase in the average food expenses to 4,737 Baht. In 2011, it jumped up 26.57% to 5,995.43 Baht from 2007. Unsurprisingly, Bangkok always took the first or second place rankings for average food expenses in 2002, 2004, 2006 and 2007 (~6,000-6,900 Baht per month). Also, there were three provinces–Nonthaburi, Phuket, and Songkhla–with the average food expenses above the 90th percentile in 2002, 2004, 2006, 2007, and 2011. Nonthaburi is located northwest of Bangkok and also considered as a part of Bangkok. Phuket and Songkhla are the

[9] 1 USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*).

major tourist destinations. Consequently, the average food expenses in these three provinces were undoubtedly high.

To avoid endogeneity, the food expenses had been calculated as a share of the monthly wage that was the average food expense divided by the average monthly wage. As mention in the previous paragraph, the average food expense was an average food and non-alcoholic beverage expense for all employees including both migrants and non-migrants in a province, and thus, the average monthly wage of all employees in such a province was used as well.[10] This research considered the food expense as a partial living cost, and thus, the relation between the labor migration and the food share was expected to be negative. Figure 3-14 represents a simple linear regression of in-migration on average food shares by province. Most results showed the negative relationship as expected. Even though the variable was highly distributed in 2007 and 2011, the food shares were well behaved as an exogenous variable.

3.2.3.3 Housing Expenses

The National Statistical Officers collected the average housing expenses by using the same approach employed with the average food expenses. Thus, the data for housing expenses was available for only 5 years: 2002, 2004, 2006, 2007, and 2011. The housing expenses, in this context, were a rental cost or mortgage payment, or market rent valuation for an owner-occupied house per month. The following paragraphs discuss the average housing expenses by province.

[10] The average food expenses of migrants were unavailable.

The average monthly housing expenses of all provinces were higher than the average monthly food expenses at around 60%-80%. It was undeniably that the food expense constituted the higher share of living costs compared to the housing expense. As summarized in Table 3.15, the average housing expenses of all provinces were around 2,000-3,180 Baht per month (~$58-$92 USD)[11]. Even though the housing expenses were relatively lower than the food expenses, it was otherwise for the percentage increases. There was an 11% increase in the average monthly housing expenses from 2,002 Baht in 2002 to 2,216 Baht in 2004. From 2004 to 2006, it jumped up 27% to 2,820 Baht. In 2007, the average housing expenses were about the same as 2006. Then, it rose by 14.27% from 2,783 Bath in 2007 to 3,180 Baht in 2011. The sharp increase in both food and housing expenses in 2006 and 2011 might have resulted from an increase in global food prices beginning in 2006. This also increased construction costs and raised housing prices during the same year.

The average monthly housing expenses in Bangkok and Nonthaburi were higher than the other provinces for all years, except for 2007. In the meantime, these provinces also had average food expenses above the 90th percentile in 2002, 2004, 2006, 2007, and 2011. Consequently, it was understandable to conclude that Bangkok and Nonthaburi had a relatively high cost of living. Given these points, in the same way as the food expense, this research considered the housing expense as part of living costs that were expected to have a negative relation with the labor migration, and thus the housing shares was calculated as the same approach as the food shares. The number of in-migrants was plotted against the housing shares as depicted in Figure 3-15. The negative relationship between the in-migration and the housing shares were less obvious than the

[11] 1 USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*)

food shares; and hence this variable presumably served as an endogenous variable due to a hidden demand for labor in a construction industry, or urban characteristics. This issue will be elaborated later in the next Chapter.

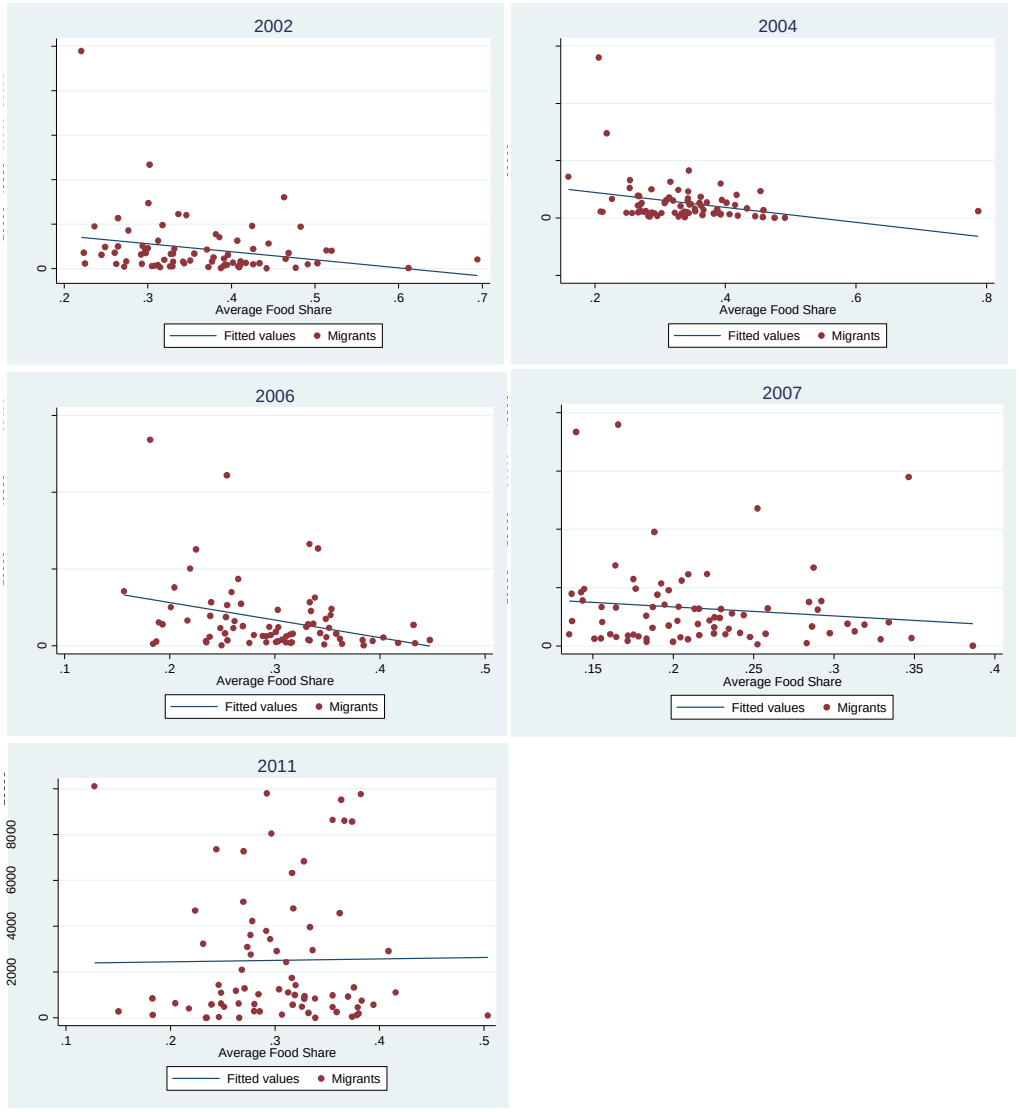

Figure 3-14 The Number of In-migrants and Average Food Share in 2002, 2004 – 2008 and 2011 - 2012

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

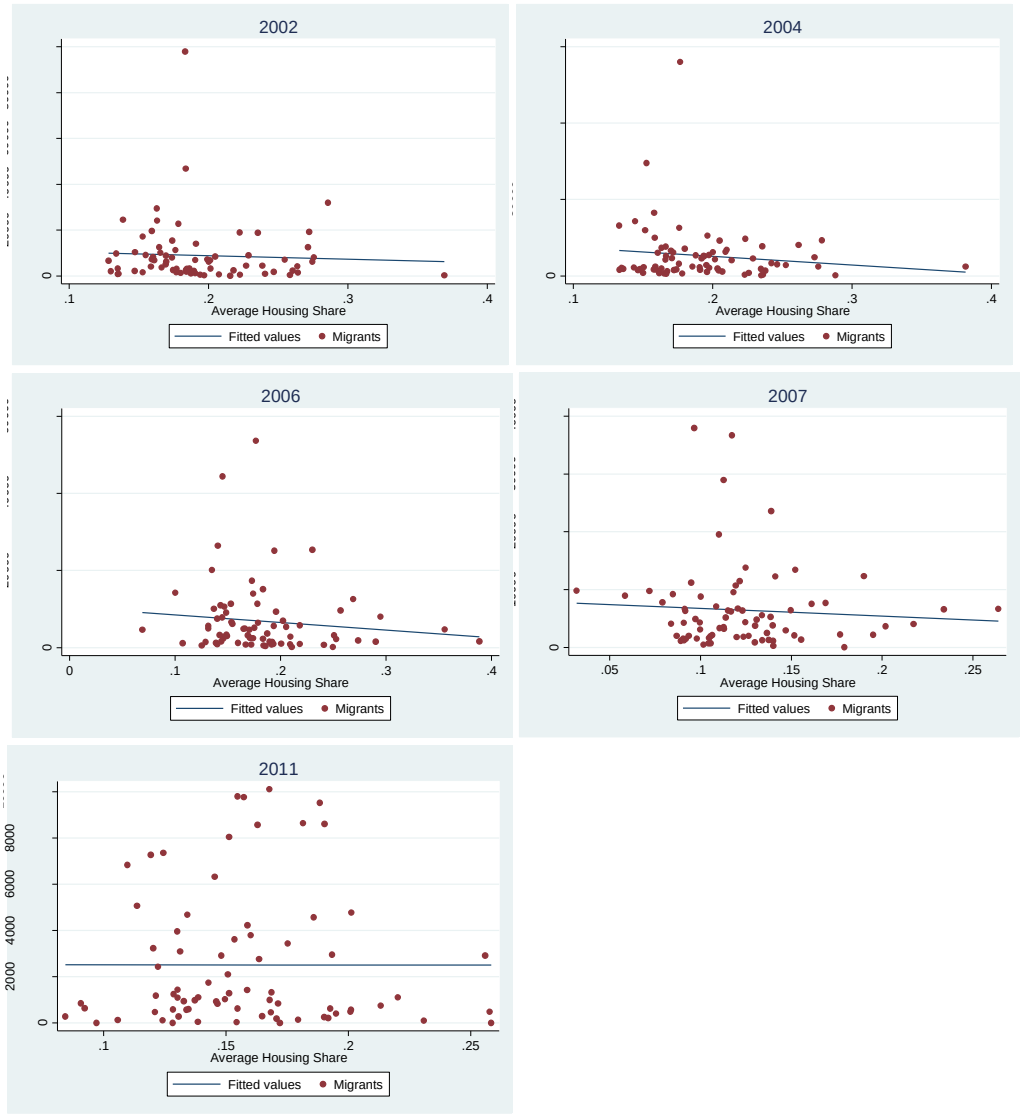

Figure 3-15 The Number of In-migrants and Average Housing Share in 2002, 2004 – 2008 and 2011 - 2012

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

Table 3.15 Summary Statistics of Employment Rate, Food and Housing Expense in 2002, 2004-2008, and 2011-2012

	2002	2004	2005	2006	2007	2008	2011	2012
	Employment rate							
Mean	0.9870	0.9904	0.9811	0.9819	0.9829	0.9826	0.9891	0.9888
Max	0.9997	0.9998	0.9947	0.9956	0.9951	0.9966	0.9981	0.9976
Min	0.9236	0.9590	0.9320	0.9361	0.9502	0.9541	0.9572	0.9558
S.D.	0.0123	0.0073	0.0105	0.0104	0.0092	0.0090	0.0075	0.0074
	Food Expense (in Thai Baht)							
Mean	3627.93	3802.93	-	4497.26	4737.01	-	5995.43	-
Max	6063	6104	-	6671	7410	-	7941	-
Min	2175	2310	-	2834	3306	-	4138	-
S.D.	801.9035	772.9848	-	797.6598	800.3325	-	764.553	-
	Housing Expense (in Thai Baht)							
Mean	2001.67	2216.14	-	2819.49	2782.74	-	3179.87	-
Max	5464	5230	-	6477	8086	-	8215	-
Min	1283	1322	-	1077	965	-	1912	-
S.D.	741.95	633.49	-	911.08	1050.66	-	1009.89	-

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

3.2.4 Migratory Costs

The migratory costs included transportation and non-transportation costs. Because of the limitation of data availability, this research focused on transportation costs. However, since migrants had not been asked about their types of transportation, the data of distances between origins and destinations were used as a proxy variable of the transportation cost[12]. As mentioned in previous articles, the distances directly related to the marginal of migratory cost (Schwartz, 1973; Sjaastad, 1962). The relation between labor migration and distance was thus expected to be negative. If there was an increase in the distance, which raised the cost of moving, workers were less likely to

[12] The distance between provinces has been collected by a private company named "Asset Performance Solutions Co., Ltd.".

migrate. The greatest distance for driving in Thailand is 2071 kilometers from Mae Hong Son to Narathiwat. This would have required a day for non-stop driving or two days on trains

Figure 3-16 depicts the average migration distances for migrants by province of their destination for group 1, group 2, and group 3. The average distance of migration for Group 1 migrants was around 350-479 kilometers during the sample period. The group 2 migrants had average distances of migration that were slightly higher than group 1. The average migration distance of group 2 migrants was around 410-450 kilometers during the sample period. Overall, most of the provinces in the Center had low average distances of migration (below the 10^{th} percentile), such as Phra Nakhon Si Ayutthaya, Ang Thong, and Nakhon Nayok. For the 26 provinces serving as the destinations for group 3 migrants in 2011, The average migration distance for all provinces was 261.57 kilometers which was lower than for the other groups on a year-by-year basis.

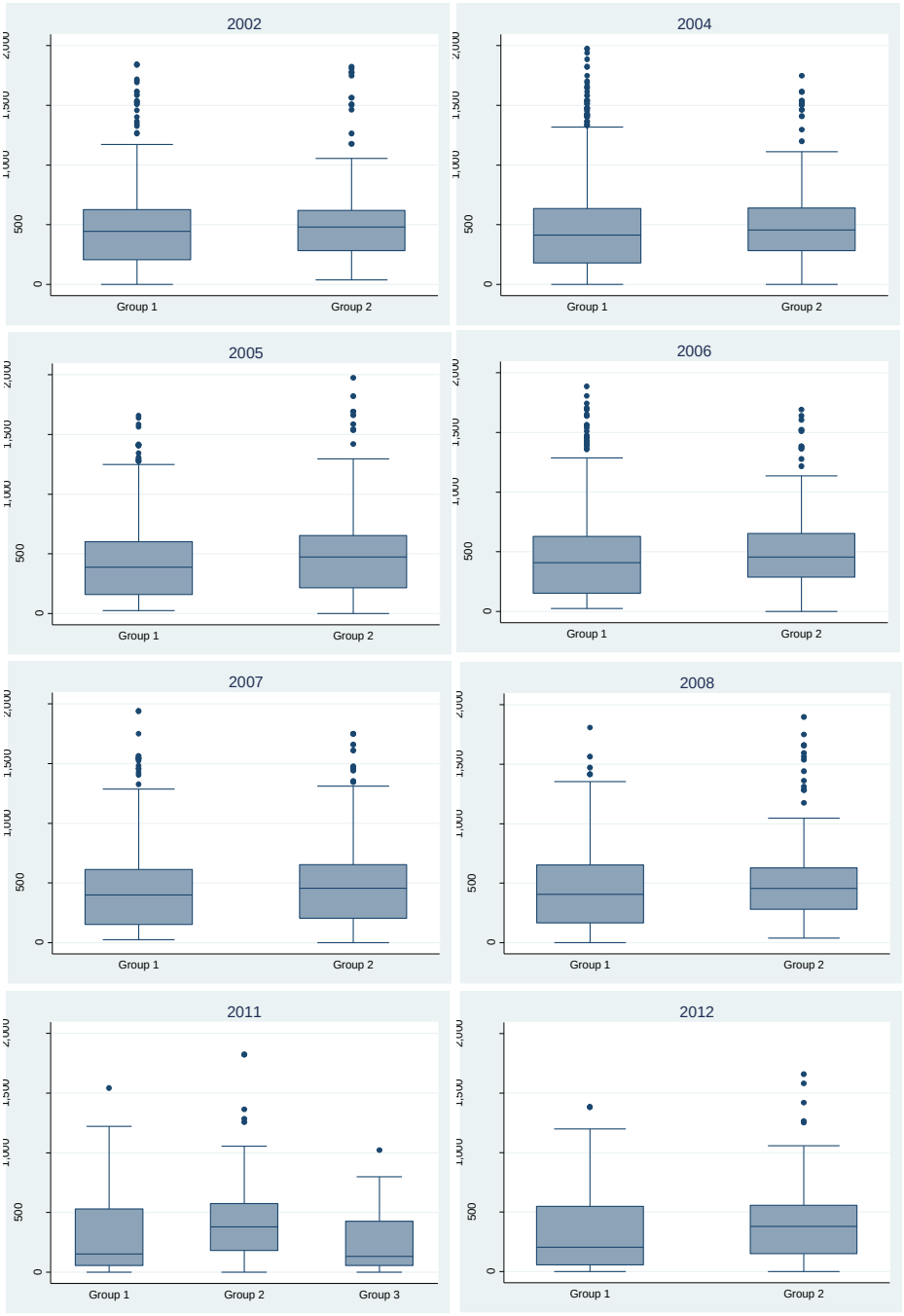

Figure 3-16 Box Plots of Migration Distance in 2002, 2004-2008 and 2011-2012

Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

According to the descriptive statistics, the migrants were more likely to migrate to the Center to look for a job or create their own businesses even though most of the group 2 migrants dwelt in the North and Northeast as their hometowns. With regard to industrial mobility, more than 50% of total migrants moved to work in non-agricultural sector. For the agricultural sector, group 2 constituted the higher share of migrants than group 1. Even though the group 3 migrants were distributed into only 26 provinces, 42% of them moved to work in the agriculture sector which was higher than group 2 and group 1. In terms of gender, more than 50% of migrants were male for both group 1 and 2, especially in the North and Northeast. For group 3, the share of female migrants was higher than 50% of total migrants in the Center and North. The range of the average age of migrants was from 24 to 33 years during the sample period. The Center and North consisted of relatively older migrants than the Northeast and South for all groups. The married workers were also more likely to migrate than the single workers especially for group 2; however, this was not true for the South because of its insecure situation. The highest educational attainment of migrants was concentrated in the elementary and lower secondary levels for all groups, and it did not vary between regions. The descriptive statistics of monthly wages demonstrated differentials in accordance with personal characteristics and provinces. The average monthly wages of migrants with relatively high education were undoubtedly higher than for the migrants with the relatively low education.

In conclusion, there were three stylized facts in view of the descriptive analysis as follows:

- The total migrant pool that had been moving across all regions had no linear pattern. The decentralized development of industries, especially for the tourism industry, was a possible reason to explain this fact which can be seen through the relation between labor migration

and provincial attributes. However, the relation between labor migration and each attribute was still ambiguous. As has been noted, the province with the highest employment rate did not account for the highest number of migrants. This was because the provincial attributes might have served as a causal combination to affect the migrant's decision. For example, a worker considered the average wage and employment rate at the destination in deciding to migrate there. Accordingly, formulating a model to explain the behavior of labor migration was necessary.

- There were some sources of variation in labor migration due to the different purposes of the migrants. After separating the purposes into three groups of migration, the group 1 and 3 migrants were clearly concentrated in the Center; while the group 2 migrants greatly moved to the Northeast. Nonetheless, provincial attributes seemingly attracted the workers in the same way across the groups and regions. Given this fact, how the fundamental factors affected the labor migration in each group needed to be clarified.
- The wage seemed to be a significant determinant of labor migration

These three stylized facts led this research to have three main objectives. The first objective was to formulate a model to explain the behavior of labor migration in Thailand and that helped to identify the effect of economic variables on the labor migration with special attention to wages. Secondly, this research aimed to test for differences in the effect of economic variables between groups of labor migrants. Lastly, this research also intended to clarify the role of wage in labor migration. These objectives, however, were not reached without a consideration of Thailand's situation. The political instability, Southern insurgency, and natural disasters certainly impacted migratory decisions. The next section explores the crisis times in Thailand and their tentative effect on labor migration.

3.3 Crisis Times in Thailand

The sample period of this research included 2002, 2004-2008, and 2011-2012. There were three important crises that happened in these years: a political crisis, South Thailand insurgency, and the greatest flooding.

Political Crisis

During 2002-2006, Mr. Thaksin Shinnawatra was the Prime Minister of Thailand. He was suspected of causing severe protests and a political crisis in Thailand. When he was the Prime Minister, his main policy was to encourage people to move back to their hometowns and create their own business. This might have contributed to the average employment rates of all provinces being the highest in 2004 (99.04%) compared to other years in the sample period. However, the share of migrants in the total population decreased from 7.22% in 2002 to 3.98% in 2004 as depicted in Figure 3-17. Certainly, it had continually decreased during 2002-2012, and this period had a negative growth rate of 22.1%. The decrease in labor migration might have been driven by the political crisis.

The mass anti-Thaksin protests that occurred in mid-2004 were against the amnesty bill and political corruption, and the protests continued during 2005 and 2006 (Campbell, 2013; Hassett, 2011). Two parties of protest were founded in 2005. The supporters of Thaksin were known as "Red Shirts", while the group of anti-Thaksin protesters was called the "Yellow Shirts". Thaksin was ultimately overthrown by a military coup in 2006, and an interim government was established in 2007. During these two years, the share of migrants was stable at 2%. Thaksin's party was re-elected on December 23rd, 2007 (Hassett, 2011). This caused a widespread protest of Yellow Shirts

across Bangkok to oust the Prime Minister in 2008. The major international airport (Suvarnabhumi Airport) was occupied by thousands of protesters in November 2008 (T. Fuller, 2008). Because the protesters rallied around Bangkok, the number of migrants in this province gradually declined, but the percentage of group 1 migrants of total migrants in Bangkok was still higher than other provinces in 2006, 2007, and 2008. The percentages were 13%, 10%, and 9%, respectively. In December 2008, Abhisit Vejjajiva, who was the head of Democrat Party and had gained the support from Yellow Shirts, was elected by the National Assembly of Thailand to be the 27th Prime Minister (Beech, 2008). Severe protests by the Red Shirts began then and continued on till 2011. This political violence included car bombs, shootings, and arsons not only in Bangkok, but also in the major provinces across the country, such as Chiang Mai, Khon Kaen, and Nakhon Si Thammarat. In 2011, there was a brutal encounter between the Red Shirts and the military which caused at least 20 deaths (Thepgumpanat, 2011). The share of migrants in total population significantly decreased from 1.85% in 2008 to 0.67% in 2011. Moreover, the percentage of group 2, who returned to their hometowns, in total migrants increased from 24.05% in 2008 to 42.54 % in 2011. The severe political crises ended after the new election was approved on May 9th, 2011 (Hassett, 2011).

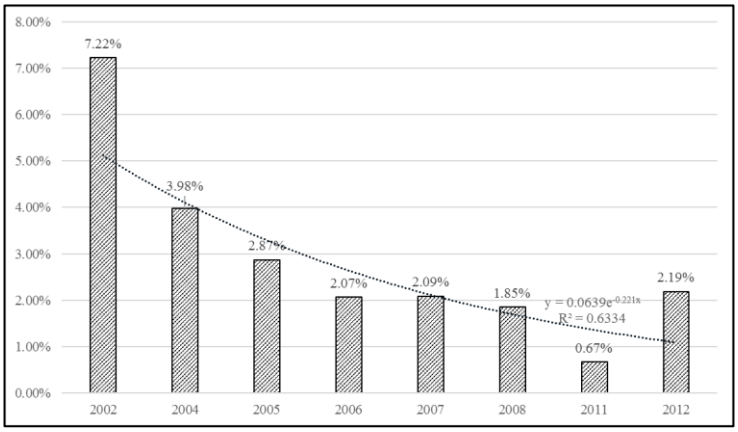

Figure 3-17 The Percentage of Migrants in Total Population in 2002, 2004-2008, and 2011-2012
Source: The Labor Force Survey (2002, 2004 – 2008 and 2011 – 2012)

South Thailand Insurgency

The main cause of the South Thailand Insurgency was the public administration reform in the nineteenth century (Croissant, 2005). A spasm of harshness had been reoccurring since 2001 due to the abolishment of the Southern Border Province Administration Center by Thaksin (McCargo, 2006). The insurgency had been centered in three provinces: Pattani, Yala, and Narathiwat, It began with assaults on police and the military followed by arsons and bombs. Martial law was enforced in January 2004 because the attacks had expanded to include the children and teachers at more than 1,000 schools in those three provinces (McCargo, 2006). Due to a report by Songkla University, the Bangkok Post (2016) had re-summarized the number of deaths and injuries as follows: “A total of 15,374 insurgency-related incidents in the far South during the past 12 full year (2004-2015) have claimed 6,543 lives and injured 11,919 people…”.

The percentage of migrants in those three provinces in total migration were around 0.04%-1% during the sample period; while the maximum and minimum percentage among all provinces were 19% and 0.01%, respectively. Even though, the percentage of migrants in total migration did not

show the lowest value, the number of migrants to those three provinces was relatively low. It also varied across the three provinces (Pattani, Yala, Narathiwat) and years. For example, the share of group 1 and group 2 migrants in total migration were 0.38% and 0.02%, respectively, in Yala in 2005; meanwhile, they were 0.03% and 0.20%, respectively, in Narathiwat in 2006.

Greatest Flooding

The greatest flooding happened from August 2011 to January 2012 because of the heaviest rainfall in 61 years, and it affected 64 out of 76 provinces in Thailand (Gale & Saunders, 2013).[13] As mentioned in section 3.1, a migrant was a worker who had just moved to the current area for less than 12 months covering October in the previous year to September in the current year of the interview period. Hence, the labor migration in 2012 was interrupted by the flooding during almost 4 months of the possible moving period. The total flooded area was around 6% of the total area (Gale & Saunders, 2013). This natural disaster completely affected the migratory decision. Recall Figure 3-17, the share of migrants increased from 0.67% in 2011 to 2.19% 2012. The political crisis obviously affected the labor migration more than the flooding. This was because the severe protests in 2011 interrupted the labor migration almost 8 months during the possible moving period.

In conclusion, given the sample period of this research (2002, 2004-2008, and 2011-2012), the political crisis impacted labor migration in the interview period of 2005, 2006, 2007, 2008, and

[13] In the context of Gale & Saunders (2013), it was 65 out of 77 provinces because Bueng Kan was founded and separated from Nong Khai in 2011; however, this research focuses on 76 provinces to set the comparable data across years.

2011. The South Thailand Insurgency clearly impacted labor migration for all the years of the sample period. The effect of the greatest flooding on labor migration occurred only in 2012; however, there might have been a combination of adverse impacts from the political crisis and severe flooding in 2011 and 2012. These three crises may have partially caused the reduction in labor migration. Other possible reasons were the decentralized development of facilitation and industries that were presumably measured by the provincial attributes. Thus, the personal characteristics, the provincial attributes, and the times of crisis needed to be considered to identify the determinant of labor migration. For the econometric implementation, because the times of crisis were also a source of variation, all process was computed for each year separately to reduce the variation.

Chapter 4: **Modeling the Labor Migration in Thailand**

This chapter will describe the location choice model using to explain the labor migration. It consisted of three steps of estimation to correct self-selected migrants. Then, the result will focus on migrants moving to a province to look for a job. This group was primary focused by this research because economic variables, i.e. wages and employment rates, were expected to play an important role in the migration decision. The result of other two groups, for those moving to their hometowns and for those moving to create their own business, will be elaborated in Chapter 7.

4.1 The Model

Workers decide to move if their utility levels at the chosen destination serves to maximize their utility. If an individual *i* chooses to migrate to province *k*, his utility would be given by:

$$U_{ik} = \max u_{ik}(Z_i, X_k) \qquad (4.1)$$

where there are 76 provinces, $k = 1, 2, \ldots, 76$. Z_i is a vector of the i^{th} individual's characteristics, and X_k is a vector of characteristics describing province *k*. Because an individual chose one alternative among various alternatives, he or she assesses the random utility associated with each alternative to decide which alternative maximizes his utility. This utility consists of observable and unobservable components. This introduced the additive random utility model (ARUM). The ARUM specifis the utility of each alternative as follows:

$$u_{ik} = V_{ik} + \epsilon_{ik} \qquad (4.2)$$

where $V_{ik} = v_{ik}(Z_i, X_k)$ is the deterministic component of utility, and ϵ_{ik} is the unobserved component.

To estimate the additive random utility models, a probabilistic choice model was introduced because we were unable to observe the utility of each alternative, but we could observe the probability of choosing a choice. There are many types of the probabilistic choice model. The nested logit model (NLM) was an appropriate model to estimate labor migration in this research for two reasons because the model allowed a flexibility of the independence of irrelevant alternatives (IIA). In the simple terms, the NLM allowed researchers to group alternatives that are similar to each other with respect to their unobservable characteristics (Koppelman & Bhat, 2006). There were similarities between the 76 provinces especially for the provinces in the same region. Assuming the provinces within the same region had some similar attributes, the provinces were clustered in the form of regions that were divided into four: Center, North, Northeast, and South. This followed the division system of the National Statistical Office of Thailand.

The appropriateness of NLM was able to be tested by the IIA property. This research used two tests: the likelihood-ratio test, which was automatically computed by the software package, and the Hausman's specification test. The likelihood-ratio statistic tested the null hypothesis that assumed at least dissimilarity parameters equal to one that proves an existence of the IIA property. For the Hausman's specification test, the first step was to estimate all choices at the bottom level as the conditional logit model. The second step was to estimate all choices in a selected nest as the conditional logit model. The Hausman's specification test compared the coefficients from these two steps.[14] If the difference in coefficients was not systematic as the null hypothesis, it meant the

[14] The Hausman's specification test required the multiple tests according to the number of nest minus one, excluding the base category.

choices in the second step were independent of each other in the same way as the first step. In the simple terms, the choices from the selected nest in the second step were not affected by the other choices, and thus, the IIA does exist. The concept of the NLM violated the property of IIA, and therefore, both tests were expected to reject the null hypothesis.

The NLM explained the behavior of choosing province and region in the form of joint probability. The joint probability of choosing region *j* and province *k* was the product of the probability of choosing region *j* and the probability of choosing province *k* conditional on choosing region *j* as follows:

$$P_{ijk} = p_{ij} \times p_{ik|j} \quad (4.3)$$

Given the above equation, an individual *i* obtained utility by choosing province *k* in region *j* as:

$$u_{ijk} = Z'_i \alpha_j + X'_{jk} \beta + \epsilon_{ijk} \quad (4.4)$$

where Z'_i was a vector of i^{th} individual characteristics and X'_{jk} was a vector of k^{th} province attributes in j^{th} region. This form of utility assigned the probability of the NLM as:

$$P_{ijk} = p_{ij} \times p_{ik|j} = \frac{exp(Z'_i \alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z'_i \alpha_m + \rho_m I_m)} \times \frac{exp(X'_{jk} \beta / \rho_j)}{\sum_{n=1}^{K_j} exp(X'_{jn} \beta / \rho_j)} \quad (4.5)$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(X'_{jn} \beta / \rho_j\right)\right)$ was called the inclusive value. The first component represented the probability of choosing region *j* that was the top level as depicted in Figure 4-1. This probability depended on the alternative-invariant or individual-specific variables including the personal characteristics and non-agricultural dummy, which represented their sectors in destinations. Accordingly, this research assumed that the probability of choosing a region (or a clustered choice) relied on the individual characteristics and the job's industry; however, it was a

comparison to the base category.[15] For example, if the Center was the base category and the female coefficient was negative for the South region, female workers compared to males were less likely to move to the South rather than the Center. Whereas, the coefficient associated with the individual-specific variables did vary across regions (α_j). The second component of the equation (4.5) was the probability of choosing province *k* given region *j* (the bottom level in Figure 4-1) that was determined by the wage and provincial attributes as the alternative-specific variables. For this type of variables, the coefficient of each variable (β) was constant for all alternatives. In other words, the effect of these variables on labor migration was expected to have the same direction across choices. For example, an increase in the employment rate of Bangkok induced workers to migrate to this province if the coefficient of the employment rate was positive, and this relation was applied for all provinces. Based on Figure 4-1, it did not mean a worker chose a region firstly and then a province within such a region. All region-varying and province-constant coefficients revealed how a worker would choose one of the 76 provinces. The NLM merely violated the property of IIA without interrupting the decision-making process (Hensher, Rose, & Greene, 2005). The relaxation of the IIA property allowed the unobserved component of utility to be correlated among provinces within the same regions, but uncorrelated across the regions. Because the uncorrelation between branches was the primary condition in the NLM, similar choices were grouped into the same branch. This research grouped 76 provinces into four regions for two reasons. The first reason was to follow the four-region division system of the National Statistical

[15] According to the explanation of (Cameron & Trivedi, 2005), the nature of logistic cumulative distribution function was given by $\Lambda(z) = e^z/(1 + e^z)$, and thus, the coefficients of the base category were normalized to zero to have a value of one in the denominator.

Office to arrange consistent data across regions.[16] Secondly, the labor migration in Thailand, as described in section 3.2.1, also showed workers seemed to focus on this regional pattern such as group 2 mostly concentrated into the Northeast. Nonetheless, Hensher, Rose, and Greene (2005) stated that the correlation might still have existed among nests. In the context of this research, the two provinces located next to each other, but in the different regions, might have shared similar attributes. For example, Saraburi and Nakhon Ratchasima are located next to each other, but found in the Center and Northeast regions, respectively. The National Statistical Office of Thailand divided provinces into four regions based on the similarities of geography, weather, and culture. Saraburi and Nakhon Ratchasima might have had similarities in terms of these features that caused the minimal difference in average monthly food expenses between the two provinces. The average food expenses of Saraburi and Nakhon Ratchasima in 2012 were 6,274 and 6,356 Baht per month, respectively.

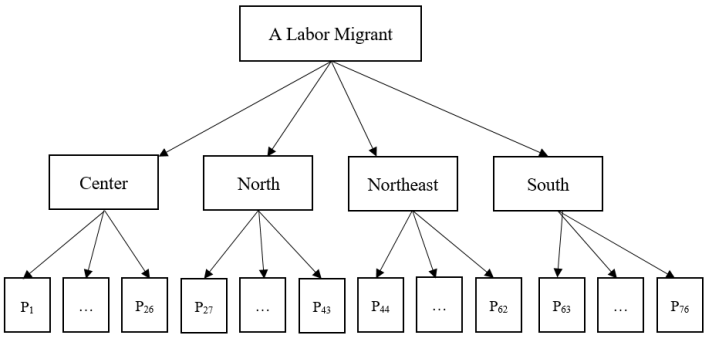

Figure 4-1 The Nested Logit Model Frame Work

[16] This research has estimated the NLM in different division system of region following the Thai institutions that includes the Thai Meteorological Department (five regions), the Tourism Authority of Thailand (five regions), the National Geographical Committee (six regions), and the Ministry of Interior (Bangkok and 18 districts of provinces). Most of the results showed instabilities of coefficients and dissimilarity parameters. This judgement also relied on other factors, such as the log-likelihood values and the compatibility with Thailand's situation in each year.

The parameter ρ_j in equation (4.5) was the scale parameters that show the correlation between provinces within a region *j*, or alternatives in the nest. If ρ_j was equal to 1, the model implied zero correlation among provinces within the same region, and thus, the IIA did exist in this case. On the other hand, if ρ_j was equal to zero, the model implied perfect correlation between provinces within a region. An increase in value of ρ_j was a decrease in substituted degree among provinces within the same region. Thus, this parameter was known as the dissimilarity parameter. The unit interval of ρ_j satisfied the maximization of random utility model. Regarding the maximization of an additive random utility model, Börsch-Supan (1990) stated that the NLM needed to satisfy three conditions as adapted to be compatible with this research here:

1) $p_j(v_1) \geq 0 \quad , \quad \sum_{j=1}^{J} p_j(v_1) = 1 \quad ; \quad p_{k|j}(v_2) \geq 0 \quad , \quad \sum_{k=1}^{K_j} p_{k|j}(v_2) = 1$ and $p_{jk}(V) = p_{jk}(V + c)$ for all $c \in \mathbb{R}$ (translation invariance)
2) $\partial p_{jk}(V)/\partial V_{mn} = \partial p_{mn}(V)/\partial V_{jk}$,$\forall\, j \neq m, k \neq n$
3) $\partial^{m-1} p_{jk}(V)/\partial V_{11} \dots \left[\partial V_{1K_1}\right] \dots \partial V_{JK_j} \geq 0$

where $V = v_1 + v_2$; $v_1 = (v_1, \dots, v_J)$ and $v_2 = (v_{1|1}, \dots, v_{K|j})$ that were the deterministic components of utility associated with alternatives. The first condition ensured the basic requirement of probabilities and translation invariance.[17] The second condition held the integrability of p_{jk} as the Slutsky condition. The final condition was required to meet the property of nonnegative density function (Börsch-Supan, 1990; Cameron & Trivedi, 2005; Koning & Ridder, 2003). The difficulty of NLM was the third condition that insisted upon $0 \leq \rho_j \leq 1$. Nonetheless, Börsch-Supan (1990)

[17] The translation invariance property will be held if the utility ordering was unchanged after adding a constant (Koning & Ridder, 2003).

indicated that the nested logit model with $\rho_j > 1$ was also compatible with stochastic utility maximization in local conditions that required that the marginal choice probabilities of a selected nest were sufficiently large. In the context of equation (4.5), the condition was given by:

$$\rho_j \geq 1/(1 - p_j) \qquad , j = 1, \ldots, J \qquad (4.6).$$

In conclusion, this research employed the NLM to explain the determinants of labor migration in Thailand due to the violation of the IIA property. There were three conditions required to meet the utility maximization that included the basic requirement of probabilities, the integrability, and the property for well-behaved distribution function. The next part will discuss the variables in the deterministic component of utility and the econometric implementation of NLM.

4.2 Econometric Implementation

This research aimed to clarify the role of wages in labor migration. In order to do this, however, there were unobserved factors affecting workers' choices and wages that caused sample selection bias. To correct this bias, this research combined Falaris's (1987) and Dahl's (2002) procedures and had three stages of estimation. The first stage was to estimate the choice probability by using the NLM to categorize migrants with the same personal characteristics and the same destinations due to the fractions of these migrants may result in a high or low wage at destinations. The predicted probability estimated from the first stage was used to regress the counterfactual wage in the second stage that was a correction function for the self-selection bias generated from the individual- and location-specific skills of migrants. The estimated counterfactual wage from the second stage was included in the estimation of NLM at the last step. This structural approach allowed us to study the role of wages in labor migration without the presence of selectivity bias.

The first step: to estimate the nested logit model without the wage. Recall the additive random utility model (ARUM):

$$u_{ijk} = V_{ijk} + \epsilon_{ijk} \quad (4.7)$$

where V_{ijk} and ϵ_{ijk} are the deterministic and unobserved components of utility. In this step, the deterministic utility is given by:

$$V^1_{ijk} = Z'_i\alpha^1_j + X'_{jk}\beta^1 \quad (4.8)$$

Then, the ARUM is expressed by:

$$u^1_{ijk} = Z'_i\alpha^1_j + X'_{jk}\beta^1 + \epsilon^1_{ijk} \quad (4.9)$$

where Z'_i is the vector of personal characteristics of i^{th} individual including gender, marital status, age, and a current industry (non-agricultural sector=1), and X'_{jk} is the vector of k^{th} province attributes in j^{th} region including employment rates and distances. This yields the probability in the form of NLM as follows:

$$P^1_{ijk} = p^1_{ij} \times p^1_{ik|j} = \frac{exp\left(Z\prime_i\alpha^1_j + \rho^1_j I^1_j\right)}{\sum^4_{m=1} exp\left(Z\prime_{im}\alpha^1_m + \varphi^1_m D_{im} + \rho^1_m I^1_m\right)} \times \frac{exp\left(X\prime_{jk}\beta^1/\rho^1_j\right)}{\sum^{K_j}_{n=1} exp\left(X\prime_{jn}\beta^1/\rho^1_j\right)} \quad (4.10)$$

where $I_j = ln\left(\sum^{K_j}_{n=1} exp\left(X'_{jn}\beta^1/\rho^1_j\right)\right)$. This step follows the Falaris's approach (1987) to categorize workers with the same characteristics(skills) having the same migration paths on average in order to compute counterfactual earnings in each location for each individual in the next step. In other words, there is self-selected migrants in some specific locations that results from location-specific skills. Some jobs are most available in a specific area, for example, coastal fisheries are concentrated in the South due to its geographical characteristics. This results in a high fraction of migrants with the same personal skills in a specific destination, and thus there is a difference in wage structures across provinces. Dahl (2002) argued that the individual migration

probability, equation (4.10), represented the fraction of workers who have the same individual characteristics and who move to k^{th} province in j^{th} region. This fraction might be credibly high because of unknown factors, i.e. location-specific skills, that ultimately affect wages.

The second step: to estimate the counterfactual wage. This was estimated by the following equation:

$$\ln(w_{ijk}) = Z'_i\alpha + ED'_i\beta + f(\hat{p}_{ijk}, \hat{p}_{ij'k'}) + \varepsilon_{ijk} \quad (4.11)$$

where ED'_i is a vector of educational attainments including none education, less than elementary, elementary, lower secondary, upper secondary, postsecondary, and university, and $f(\hat{p}_{ijk}, \hat{p}_{ij'k'})$ is the polynomial function of the estimated probability of choosing the current province ($\hat{p}_{ijk}$) and the other provinces ($\hat{p}_{ij'k'}$) from the first step. This is the polynomial function of degree two to explain the first-best and second-best choice probabilities of choosing provinces following Dahl's approach (2002). It is because the second- or third- best choice may have taken an important factor as the second consideration of a migratory decision. In the meanwhile, as mentioned in the first step, these probabilities represented for a fraction of migrants affecting wage differentials across locations. Hence, there are a fraction of migrants for the chosen provinces as the first- and second-best alternatives that may have altered the destinations' wages (Dahl, 2002). Accordingly, the equation (4.11) accounts for the selectivity bias. However, the number of additive probabilities was hardly determined; hence, the practical approach was to test the statistical significance of each additional term (Dahl, 2002).

I also assumed that there is a self-selection bias of a low educated migrants with low returns to education. Previous studies indicated that highly educated people are more likely to migrate resulting in a wage draw from the upper tail of wage distribution of original province (Bertoli et al., 2013; Dahl, 2002; Robinson & Tomes, 1982). However, as has been noted in section 3.2.2.5, numerous migrants achieved the elementary and lower secondary education levels with relatively low wage compared to migrants with university education. Hence, in this terminology, migrants might be drawn from the lower tail of original province's wage distribution causing selectivity bias.

The third step: to estimate the nested logit model with the wage. In this step, the deterministic component is similar to equation (4.8); however, it adds the estimated counterfactual wage from the second step as follows:

$$V_{ijk}^{2} = Z'_{i}\alpha_{j}^{2} + X'_{jk}\beta^{2} + \gamma\widehat{w}_{ijk} + O'_{jk}\varphi \qquad (4.12)$$

Thus, the ARUM for this step can be rewritten as:

$$u_{ijk}^{2} = Z'_{i}\alpha_{j}^{2} + X'_{jk}\beta^{2} + \gamma\widehat{w}_{ijk} + O'_{jk}\varphi + \epsilon_{ijk}^{2} \qquad (4.13)$$

where $\widehat{w}_{ijk}$ is the antilog of $\widehat{lnw}_{ijk}$ and O'_{jk} is the vector of other provincial attributes. This provided the NLM in the following form:

$$P_{ijk}^{2} = p_{ij}^{2} \times p_{ik|j}^{2} = \frac{exp\left(Z\prime_{i}\alpha_{j}^{2} + \rho_{j}^{2}I_{j}^{2}\right)}{\sum_{m=1}^{4} exp\left(Z\prime_{i}\alpha_{m}^{2} + \rho_{m}^{2}I_{m}^{2}\right)} \times \frac{exp\left(\left(X\prime_{jk}\beta^{2} + \gamma\widehat{w}_{ijk} + O\prime_{jk}\varphi\right)/\rho_{j}^{2}\right)}{\sum_{n=1}^{K_j} exp\left(\left(X\prime_{jn}\beta^{2} + \gamma\widehat{w}_{ijn} + O\prime_{jn}\varphi^{2}\right)/\rho_{j}^{2}\right)} \qquad (4.14)$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(\left(X'_{jn}\beta^{2} + \gamma\widehat{w}_{ijn} + O'_{jn}\varphi\right)/\rho_{j}^{2}\right)\right)$.

Let's consider the unobserved term from equation (4.11) and (4.12) following Bertoli et al.'s concept (2013) as:

$$\epsilon_{ijk}^{2} = \sigma_{ijk} + \varepsilon_{ijk}^{M} \quad (4.15)$$

$$\varepsilon_{ijk} = \sigma_{ijk} + \varepsilon_{ijk}^{W} \quad (4.16).$$

where ε_{ijk}^{M} and ε_{ijk}^{W} are the unobserved component related to individual choice and wage model, respectively. For example, ε_{ijk}^{M} will be high if the i^{th} individual's network, that is unobserved factor in this research, might attract him to k^{th} province in j^{th} region. σ_{ijk} represents the unobserved propensity of migration that is assumed to affect the migrants' wages. As mentioned in step 1 and 2, this propensity results from location-specific skills that alters the destinations' wages. Hence, the estimation of equation (4.13) requires an estimation of selection-corrected migrant wages that have been done in step 1 and 2. Following these three steps, the estimated coefficient of wage (γ) was unbiased and identified from individual variation according to educational attainments and location-specific tasks.

The other provincial attributes (O'_{jk}) were the living costs and provincial dummy. The provincial dummy was the dummy for Bangkok and Samut Prakan that was added into the model only for group 1. This was because, as mentioned in section 3.2.1, the number of group 1 migrants in these two provinces was higher than the other provinces in 2002 and 2004-2008. Hence, the dummy variable was used to represent these two distinctive choices. Generating a nest for Bangkok and Samut Prakan was another possible approach; nonetheless, the dissimilarity parameters of the other regions became negative in this case. The negative values of the dissimilarity parameters failed the structural form of the NLM. As has been noted, the relation between provincial attributes, which were the alternative-specific regressors, and the probability of migrating to a province were expected to have the same direction for all provinces. In the case of a negative value of dissimilarity

parameters, the direction was different for at least a province within the same region. To put it another way, the regions with negative dissimilarity parameters were unable to compete with the group of Bangkok and Samut Prakan.[18] As has been noted in the first chapter, I assumed that wages might not reflect living costs, which resulted in a minimal role of wages in migration decisions, and adding living costs will clarify the role of wages more precisely. The living costs included food and housing expenses. As can be seen in section 3.2.3.2 and 3.2.3.3, the data of these expenses were available only in 2002, 2004, 2006, 2007, and 2011, and thus they would be added only in the mentioned years.

The estimation of NLM was considered by following Cameron & Trivedi (2005). Recall equation (4.7), the outcome of i^{th} individual choosing alternative j and k was given by:

$$y_{ijk} = \left[V_{i11} + \cdots + V_{iJK_j}\right] + \left[\epsilon_{i11} + \cdots + \epsilon_{iJK_j}\right] \qquad (4.17)$$

where y_{ijk} was equal to one if alternative j and k were chosen and zero otherwise. Then, the observation of i^{th} individual that was $y_i = \left(y_{i11}, \ldots, y_{iJK_j}\right)$ yielded the density function as follows:

$$f(y_i) = \prod_{j=1}^{J} \prod_{k=1}^{K_j} \left[p_{ik|j} \times p_{ij}\right]^{y_{ijk}} = \prod_{j=1}^{J} \left(p_{ij}^{y_{ij}} \prod_{k=1}^{K_j} p_{ik|j}^{y_{ijk}}\right) \qquad (4.18)$$

where $y_{ij} = \sum_{l=1}^{K_j} y_{ijl}$ was equal to one if region j was chosen and zero otherwise. Using Stata package[19] to estimate the NLM, it employed the full information maximum-likelihood (FIML)

[18] This concept was a presumption based on the explanation of Train, McFadden, & Ben-Akiva (1987) in case of the dissimilarity parameter greater than one. They stated that the dissimilarity parameter disclosed the degree of substitution within and among nests, and the dissimilarity parameter that was greater than one revealed that the substitution among nests was readier than the substitution within nests.

[19] StataCorp. 2013. *Stata Statistical Software: Release 13*. College Station, TX: StataCorp LP.

estimation. Suppose *N* was the number of total observations, equation (4.18) informed the density $\prod_i^N f(y_i)$, thus the log-likelihood of the FIML estimation was:

$$\ln L = \sum_{i=1}^{N}\sum_{j=1}^{J} y_{ij}\ln p_{ij} + \sum_{i=1}^{N}\sum_{j=1}^{J}\sum_{k=1}^{K_j} y_{ijk}\ln p_{ik|j} \qquad (4.19).$$

The FIML estimator maximized equation (4.19) with respect to parameters including the dissimilarity parameter.

The coefficients of the NLM were interpreted differently for top and bottom level. For the top level, the coefficients were directly interpreted in terms of relative risk as the binary logit models. Suppose Z'_i was a vector of regressors at the top level, the probability of observing alternative *j* given other alternatives was:

$$\Pr[y = j | y = j \text{ or } m] = \frac{p_j}{p_j + p_m}$$

$$= \frac{e^{Z'_i\beta_j}}{e^{Z'_i\beta_j} + e^{Z'_i\beta_m}} \qquad (4.20)$$

According to the nature of logistic model, there was a base category that normalized its coefficient equal to zero. Suppose alternative *m* was the base category, equation (4.20) was rewritten as:

$$\Pr[y = j | y = j \text{ or } m] = \frac{e^{Z'_i\beta_j}}{1 + e^{Z'_i\beta_j}} \quad \text{, that is}$$

$$\frac{\Pr[y=j]}{\Pr[y=m]} = \frac{e^{Z'_i\beta_j}/1 + e^{Z'_i\beta_j}}{1/1 + e^{Z'_i\beta_j}} = e^{Z'_i\beta_j} \qquad (4.21)$$

This equation expressed the relative risk or odds ratio as a unit change as *Z* will change $e^{Z'_i}$ proportionally from choosing *j* relative to *m*. Nowadays, the statistical program computed equation (4.19) as the log-odds ratio; hence, the coefficient β was interpreted directly as

$$\ln\left[\frac{\Pr[y=j]}{\Pr[y=m]}\right] = Z'_i\beta_j.$$

For the bottom level, the coefficients were normally interpreted as the marginal effect of a regressor on the probability of choosing an alternative. This research used the elasticities to interpret the marginal effects of regressors. The elasticities were computed as follows (see Appendix C for the derivations):

Direct elasticity, ε_{kk}: the percentage change in probability of choosing province *k* in region *j*, $P_{jk,}$ associated to a 1% change in an attribute of province *k* in region *j* when province *k* in the region *j*.

$$\varepsilon_{kk} = \frac{\partial ln(p_{ijk})}{\partial X_{jk}} \cdot X_{jk} = \left[\left(1 - p_{ijk}\right) + \left(\frac{1}{\rho_j} - 1\right)(1 - p_{ik|j})\right]\beta \cdot X_{jk} \qquad (4.22)$$

Cross elasticity, ε_{lk}, *in the same nest*: the percentage change in probability of choosing province *l* in region *j*, $P_{jl,}$ associated to a 1% change in an attribute of province *k* in region *j* when $l \neq k$ and province *l* and *k* are in the region *j*.

$$\varepsilon_{lk} = \frac{\partial ln(p_{ijl})}{\partial X_{jk}} \cdot X_{jk} = -\left[p_{ijk} + \left(\frac{1}{\rho_j} - 1\right)p_{ik|j}\right]\beta \cdot X_{jk} \qquad (4.23)$$

Cross elasticity, ε_{sk}, *in the different nest*: the percentage change in probability of choosing province *s* in region *r*, $P_{sr,}$ associated to a 1% change in an attribute of province *k* in region *j* when $r \neq j$, $s \neq k$, province *s* in the region *r* and province *k* in the region *j*.

$$\varepsilon_{sk} = \frac{\partial ln(p_{irs})}{\partial X_{jk}} \cdot X_{jk} = -p_{ijk} \cdot \beta \cdot X_{jk} \qquad (4.24)$$

The cross elasticity in the different nest were the same for all nests. For example, if province *s* was located in region *r* and province *m* was located in region *n*, then ε_{sk}=ε_{mk} that is.

$$\frac{\partial ln(p_{irs})}{\partial X_{jk}} \cdot X_{jk} = \frac{\partial ln(p_{inm})}{\partial X_{jk}} \cdot X_{jk} = -p_{ijk} \cdot \beta \cdot X_{jk} \qquad (4.25)$$

As has been regularly noted, this research focused on three groups of migrants, and each group had the same set of variables. Additionally, the FIML estimator was employed, and the results were interpreted differently for the top and bottom levels. Given these points, the estimation was

computed separately for each year to reduce the model's variation due to the times of crisis in Thailand. The following chapters show the results and their details.

4.3 Endogeneity Considerations

In the context of this research, I considered the probability of a worker participating in labor market at a province. A change in the probability of moving to a province in response to a change in wages simply explained the individual's labor supply. However, because this research focused on labor migration, the labor supply that derived from the worker's utility was assumed to depend on not only wage rates but also personal characteristics, migratory costs, and provincial attributes. By using the employment rates and living costs as the provincial attributes, these variables could be a source of endogeneity problem.

The potential of endogeneity problem of employment rate affecting the probability of migration might originate from implicit demand shifts. An employment rate was able to be considered as an aggregate demand for labor, and the probability of migration would increase if there an increase in the demand. I assumed that the employment rates were truly exogenous variables because migrants were unable to simultaneously respond to an outward shift of demand for labor. The average share of migrants who look for a job was 0.5% - 3% of total labor force during 2002 - 2012, and hence the number of migrants fulfilled a minimal portion of an incremental demand. Indeed, a worker will choose to move to a province by considering an employment rate as a signal information to indicate their possible hours of work at destinations. In this case, the number of foreign workers would not affect the native workers' decisions. The study of Kulkolkarn & Potipiti

(2007) indicated that the immigration had a zero effect on the native workers' wages; and hence foreign workers would be considered as uncompetitive workers.

The living costs including food and housing expenses also raised the endogeneity concerns. The demand for labor depends on product prices; and hence a high price of food and house would raise labor demand. To avoid an hidden demand shift, the food expenses have been calculated as a share of the monthly wage that was the average food expense divided by the average monthly wage. As described in section 3.2.3.2, the average food expense was an average food and non-alcoholic beverage expense for all employees including both migrants and non-migrants in a province, and thus, the average monthly wage of all employees in such a province was used as well.[20] This approach corrected the endogeneity problem for two reasons. First of all, there were various classifications of food in Thailand, i.e. street foods, and casual and fine dining restaurants. The average food expense depreciated all food values, and thus an increase in demand for labor to produce a specific food product could not be identified according to this variety. Secondly, the shares of food expense represented an affordability of food based on employees' earnings, and thus it truly indicated a living cost at destinations as an exogenous variable. However, this approach could not be applied to housing expenses. The housing expenses was more complicated not only because a hidden demand for labor in a construction sector but also because an influence of urbanization on housing price. The most urbanized province was Bangkok that maintained the highest average housing expenses during 2002 – 2012 (~ 5,000 – 8,000 Baht compared to a

[20] The average food expenses of migrants were unavailable.

national average housing expense of 2,500 Baht). To correct the endogeneity bias, the following equation was estimated:

$$H_{jk} = \alpha_{jk}^{H} PD_{jk} + R'_{j}\beta_{j}^{H} + \epsilon_{jk}^{H} \quad (4.26)$$

where H_{jk} is the average housing expense of k^{th} province in j^{th} region, PD_{jk} is the population density at k^{th} province in j^{th} region, R'_{j} was the vector of regional dummies, and ϵ_{jk}^{H} is the error term. The population density and regional dummies served as the instrumental variables that assumed to be uncorrelated with the unobserved component in equation (4.8), ϵ_{ijk}. The descriptive statistic in section 3.2.3.3 demonstrated that the provinces with low average housing expenses also had low population density. Hence, the population density served as a good instrumental variable because it was correlated with the average housing expense but uncorrelated with the migratory decision. The predicted values of H_{jk} ($\widehat{H}_{jk}$) and ϵ_{jk}^{H} ($\hat{\epsilon}_{jk}^{H}$) were added into the equation (4.12) as the component of other factors. This approach provided the coefficient φ associated with $\widehat{H}_{jk}$ was an unbiased estimator. Moreover, the significance of the coefficient φ associated with $\hat{\epsilon}_{jk}^{H}$ proved the endogeneity problem: $Cov(H_{jk}, \epsilon_{ijk}) \neq 0$. The predicted housing expensed will be divided by the migrant's monthly wage to indicate the share of housing expense as a partial living cost at a destination. As mention earlier, the wage structure and local economy do vary across provinces, the share of living costs in monthly wage allowed migrants to evaluate their capacities for living at destinations.

According to aforementioned approaches to correct the self-selection and endogeneity biases, the results was improved in terms of an increase in log-likelihood values; however, it is undeniable that some variations still do exist. The instability of politics, South Thailand insurgency, and a

greatest flooding also originated the model's variations. This is a reason for estimating the choice model for each year independently that was less restrictive than using time dummies to pool data as the multiple cross-sectional data. The annual estimation also allowed all coefficients to vary across year, and thus it would be able to show the effect of unobserved component. These advantages will be reconsidered in the later sections.

Chapter 5: **Results of Modeling Labor Migration Those Looking for Jobs**

5.1 The Determinants of Labor Migration for Those Looking for Jobs

This section describes the result of estimating the migration model for group 1 who moved to a province to look for a job. Each migrant had the choice of 76 provinces including their current province. The estimation of the nested logit model (NLM) consisted of three steps. The three steps were employed to correct self-selection bias due to differences in personal characteristics and location-specific employments. The numerous migrants achieved relatively low education resulted in a low wage draw from wage distribution of original province. In the meantime, I found that some occupations concentrated in a specific area providing a difference in wage structures across provinces; hence, the migrants' wages were not randomly selected. These sources of self-selected migrants likely led to some bias on estimated wage coefficient. To sum up, the three steps computed the estimated counterfactual wage free from selectivity bias; hence, it allowed this research to investigate the effect of individuals' wages on migration decisions for a group of workers that was drawn randomly from the population.

The first step was to estimate the nested logit model without the wage. Recall the NLM from equation (4.13):

$$P_{ijk}^{1} = p_{ij}^{1} \times p_{ik|j}^{1} = \frac{exp\left(Z\prime_i \alpha_j^1 + \rho_j^1 I_j^1\right)}{\sum_{m=1}^{4} exp\left(Z\prime_{im}\alpha_m^1 + \varphi_m^1 D_{im} + \rho_m^1 I_m^1\right)} \times \frac{exp\left(X\prime_{jk}\beta^1/\rho_j^1\right)}{\sum_{n=1}^{K_j} exp\left(X\prime_{jn}\beta^1/\rho_j^1\right)} \qquad (5.1)$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(X'_{jn}\beta^1/\rho_j^1\right)\right)$, Z'_i is the vector of personal characteristics of i^{th} individual including female, married, age, age squared, and non-agricultural sector, and X'_{jk} is the vector of k^{th} province attributes in j^{th} region including employment rates and distances. Using the

full information maximum likelihood (FIML) estimation, the results are presented in Table 5-1. The dissimilarity parameters exceeded the unit range only in 2007 and 2011[21]; however, Hausman's specification test rejected that the independence of irrelevant alternatives (IIA) did exist. Consequently, the structural of the NLM was well defined, and the results of 2002, 2004-2006 and 2011 were consistent with random utility maximization. The coefficients associated with the employment rate were significantly positive as expected except for 2011 and 2012, while the coefficients for distance were significantly negative to represent a migratory cost as expected for all years.

In the second step, the wage equations were estimated to predict the unconditional wages for each migrant and each province. Recall the wage equation,

$$\ln(w_{ijk}) = Z'_i\alpha + ED'_i\beta + f(\hat{p}_{ijk}, \hat{p}_{ij'k'}) + \varepsilon_{ijk} \quad (5.2)$$

where Z'_i is the vector of personal characteristics of i^{th} individual including female, married, age, age squared, and non-agricultural sector; ED'_i is a vector of educational attainments including none education, less than elementary, elementary, lower secondary, upper secondary, postsecondary, and university; and $f(\hat{p}_{ijk}, \hat{p}_{ij'k'})$ is the polynomial function of estimated probability of choosing the current province ($\hat{p}_{ijk}$) and the other provinces ($\hat{p}_{ij'k'}$) from the first step. The outputs of the wage regression model, as reported in Table 5-2, showed that females were being paid higher than males around 5.66% on average for 2002, 2006, 2007, 2008, and 2011. The wage penalty for married migrants was found in 2002, 2006, 2007, and 2008 as indicated by

[21] The dissimilarity parameters were also not sufficiently large to meet Börsch-Supan's (1990) condition: $\rho_j \geq 1/(1-p_j)$ as mentioned in section 4.1.

their wages being less than the single workers (around 0.9%-10%). The older migrants were less likely to gain higher wages (around 0.3%-8%). Unsurprisingly, the higher education level led to the higher wage of migrants especially for postsecondary and university levels. Acquiring a university degree increased the migrant's wage by 54% and 34% with respect to elementary and lower secondary levels, respectively. Recall the descriptive results in section 3.2.2.5, there were appear to have improved the wage differentials between gender, marital status, and educational attainment. Nonetheless, the estimation of selection-corrected migrant wages clearly interpreted the wage differentials among those personal characteristics. Dahl (2002) found that the uncorrected wage equation biased the magnitude of coefficients around 9% on average in his results when investigating the return to education for an individual at each state. Recall equation (5.2), where there was a polynomial function of the estimated probability where choosing the current vs. other provinces, and this probability was computed by the first step. This research employed a second-order polynomial function to explain the first-best and second-best choice probabilities. The probability of choosing the first-best choice had a positive relation with the monthly wage except for 2005, 2007, and 2011, as shown in Table 5-2, which were the beginning period of political crisis, the period of interim government, and the period of violent political protest. For these three years, the coefficients for the second-best choice were positive instead of the first-best choice. This means that the migrants were more satisfied by their best choices in normal circumstance; however, the second-best choices became the better choice when there was an irregular situation at their first-choice destinations.

Table 5-1 Estimates of The Nested Logit Model of Group 1 in The First Step

	2002	2004	2005	2006	2007	2008	2011	2012
Bottom Level								
Employment Rate	0.07131	-0.04845	0.26942	0.06571	0.02113	0.05505	-0.41123	-0.07121
Distance	-0.00185	-0.00155	-0.00150	-0.00138	-0.00197	-0.00146	-0.00192	-0.00187
Top Level								
Center (base category)								
North								
Female	-0.46815	-0.00508^{NS}	-0.29864	-0.00190^{NS}	-0.71893	-0.20422	-1.67821	-0.63427
Married	0.01950^{NS}	-0.33788	0.62260	-0.17996	-0.66939	-1.03964	0.60631	0.09653
Age[a]	-0.20817	-0.05696	-0.09457	0.29430	0.19733	0.06607	-0.87889	-0.22493
Age squared[b]	0.00331	0.00069	0.00109	0.37109	-0.00241	-0.00118	0.01182	0.00202
Non-agricultural sector	0.40332	-1.70412	-1.21187	-2.37460	-1.47010	-3.08562	0.70590	3.42640
Hausman Test (Chi-squared)	237.49	377.39	112.01	181.96	106.35	67.81	12.26*	23.02
Northeast								
Female	-0.02465^{NS}	-1.04275	-0.41378	-0.09048	-0.75971	-1.60922	-0.76250	-0.62558
Married	-0.33481	-0.29458	-0.72970	-0.66660	0.19452	0.34372	1.61243	1.14554
Age[a]	-0.12568	0.10193	0.02387	-0.20756	0.16371	0.19822	-0.21136	0.07736
Age squared[b]	0.00176	-0.00230	-0.00053	1.50403	-0.00167	-0.00432	0.00373	-0.00234
Non-agricultural sector	0.68462	-2.68077	-3.49643	-3.97185	-1.68416	-2.78291	-1.16375	-1.56182
Hausman Test (Chi-squared)	214.87	246.23	130.04	118.28	135.05	83.62	12.68*	28.03
South								
Female	0.20506	0.28686	0.61822	0.42099	-0.13085	0.27487	0.30132	-0.13571
Married	0.00598^{NS}	-0.59656	-0.58620	-0.04198	-0.59290	-0.79810	-0.56161	-0.01412^{NS}
Age[a]	-0.04795	0.03043	-0.01252	0.177745	0.11063	0.14427	0.37590	0.15411
Age squared[b]	0.00070	-0.00005^{NS}	0.00034	0.81200	-0.00117	-0.00220	-0.00827	-0.00277
Non-agricultural sector	-1.21308	-2.36284	-2.40595	-2.62472	-1.66676	-2.65119	-2.32836	-4.01516
Hausman Test (Chi-squared)	104.98	131.80	64.09	73.26	71.23	65.13	17.21**	17.52**
Dissimilarity Parameters								
Center tau	0.78904	0.63311	0.35631	0.43027	1.71529	0.52271	1.23803	0.31346
North tau	0.90374	0.82777	0.53164	0.41296	0.54249	0.75749	5.95572	0.27686
Northeast tau	0.25549	0.30094	0.88738	0.65677	0.55295	0.26589	1.63607	0.24448
South tau	0.93829	0.77958	0.61831	0.63973	1.73272	0.46899	0.48061	0.52594
Number of cases[c]	968	1295	719	739	611	610	114	186
Log-likelihood	-1068575.4	-1697519.7	-960864.4	-957556.4	-809040.7	-742703.5	-154858.8	-213334.8
LR test for IIA (Chi-squared)	6135.98	5344.29	13685.8	7754.87	578.59	7938.6	5272.17	10154.73

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that had no superscript had p-value < 0.01;
[a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;
[c] The number of cases without survey weight

Table 5-2 Wage Equations of Group 1

Dependent variable: *ln monthly wage*								
	2002	2004	2005[d]	2006	2007	2008	2011	2012
Female	0.00577	-0.10931	-0.02790	0.00460	0.08399	0.02839	0.16030	-0.13379
	(0.000250)	(0.000217)	(0.000186)	(0.000292)	(0.000452)	(0.000310)	(0.000724)	(0.000605)
Married	-0.09065	0.01278	0.06873	-0.00876	-0.09848	-0.04161	0.15923	0.07125
	(0.000277)	(0.000221)	(0.000189)	(0.000308)	(0.000466)	(0.000321)	(0.000836)	(0.000601)
Age[a]	0.16008	0.13509	0.01870	0.98089	0.26689	0.17021	0.26423	0.28891
	(0.000086)	(0.000046)	(0.000061)	(0.000400)	(0.000069)	(0.000084)	(0.000215)	(0.000171)
Age squared[b]	-0.00227	-0.00169	-0.00025	-0.08163	-0.00328	-0.00235	-0.00421	-0.00399
	(0.000001)	(0.000001)	(0.000001)	(0.000039)	(0.000001)	(0.000001)	(0.000003)	(0.000003)
None Education	5.54826	4.98738	7.17551	4.70659	2.72294	4.92903	4.15403	2.99088
	(0.001462)	(0.001123)	(0.001126)	(0.001350)	(0.001361)	(0.001459)	(0.004447)	(0.002946)
Less than Elementary	5.49389	4.83977	7.57740	4.99764	2.08947	5.06432	4.69584	3.19033
	(0.00124)	(0.00091)	(0.00108)	(0.00104)	(0.00144)	(0.00131)	(0.00327)	(0.00284)
Elementary	5.65948	4.94450	7.52509	4.84112	2.41079	5.02864	4.55398	2.82059
	(0.00124)	(0.00084)	(0.00105)	(0.00104)	(0.00113)	(0.00131)	(0.00340)	(0.00288)
Lower Secondary	5.78811	5.03609	7.59243	4.89360	2.74666	5.17335	4.64452	3.57618
	(0.00120)	(0.00080)	(0.00101)	(0.00103)	(0.00106)	(0.00128)	(0.00323)	(0.00261)
Upper Secondary	5.69890	5.04316	7.67730	4.88128	2.57468	4.95651	4.43529	3.26662
	(0.00126)	(0.00083)	(0.00102)	(0.00107)	(0.00112)	(0.00134)	(0.00344)	(0.00278)
Postseconadary	5.94345	5.17607	7.78659	4.98807	2.58900	5.22644	4.22792	3.14864
	(0.00134)	(0.00090)	(0.00107)	(0.00119)	(0.00147)	(0.00142)	(0.00402)	(0.00305)
University	6.23495	5.52184	7.98130	5.01885	2.82933	5.54135	5.18795	3.82354
	(0.001438)	(0.001021)	(0.001080)	(0.001195)	(0.001487)	(0.001458)	(0.003498)	(0.002925)
Non-ag Sector	0.43666	1.20582	0.54258	1.02097	1.50994	0.80582	0.18566	1.03713
	(0.000490)	(0.000435)	(0.000323)	(0.000477)	(0.000757)	(0.000441)	(0.001026)	(0.001069)
Pijk	9.30010	10.29405	-0.77102	3.42783	-1.01901	3.00142	-2.28936	2.17933
	(0.030933)	(0.022972)	(0.019930)	(0.027649)	(0.051965)	(0.021554)	(0.036268)	(0.032412)
Pijk squared	-205.00980	-213.50980	21.13913	-36.33759	156.41630	-32.98742	42.42382	-15.61515
	(0.736281)	(0.537655)	(0.504887)	(0.588641)	(1.286804)	(0.394300)	(0.428753)	(0.429451)
R-squared	0.9958	0.9952	0.9980	0.9952	0.9900	0.9961	0.9957	0.9962
Observations[c]	73568	98420	54644	56164	46436	46360	8664	14136

Note: The model was estimated using the survey weight; Standard errors in parentheses; [a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years; [c] The number of observations without survey weight [d] The polynomial function included third-order polynomial that had the coefficient of -112.85810 and standard deviation of 2.71995 (not shown).

The first and second steps yielded the estimated counterfactual wage that was free from selectivity bias. The last step was to estimate the location choice model in the nested logit structure as follows:

$$P_{ijk}^{2} = p_{ij}^{2} \times p_{ik|j}^{2} = \frac{exp\left(Z\prime_i \alpha_j^2 + \rho_j^2 I_j^2\right)}{\sum_{m=1}^{4} exp\left(Z\prime_i \alpha_m^2 + \rho_m^2 I_m^2\right)} \times \frac{exp\left(\left(X\prime_{jk}\beta^2 + \gamma\widehat{w}_{ijk} + O\prime_{jk}\varphi\right)/\rho_j^2\right)}{\sum_{n=1}^{K_j} exp\left(\left(X\prime_{jn}\beta^2 + \gamma\widehat{w}_{ijn} + O\prime_{jn}\varphi^2\right)/\rho_j^2\right)} \qquad (5.3)$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(\left(X'_{jn}\beta^2 + \gamma\widehat{w}_{ijn} + O'_{jn}\varphi\right)/\rho_j^2\right)\right)$, $\widehat{w}_{ijk}$ is the antilog of $\widehat{lnw}_{ijk}$ from equation (5.2) in the second step and O'_{jk} is the vector of other provincial attributes including food and housing expenses, and provincial dummies. Unfortunately, the data on food and housing expenses were available only in 2002, 2004, 2006, 2007, and 2011, and thus, the two expenses were added into the model only in these 5 years. To attain comparable results across all years, model 1 and 2 that excluded food and housing variables were employed. However, the provincial dummies for Bangkok and Samut Prakan provinces (D_{jk}) were added into model 2 because these two provinces attracted a high number of migrants, as mentioned in section 3.2.1.[22] Hence, this last step estimated three models expressed by the following deterministic component of utility:

$$V_{ijk}^{2} = Z'_i\alpha_j^2 + X'_{jk}\beta^2 + \gamma\widehat{w}_{ijk} \qquad (5.4) \text{ for model 1,}$$

$$V_{ijk}^{2} = Z'_i\alpha_j^2 + X'_{jk}\beta^2 + \gamma\widehat{w}_{ijk} + \varphi^D D_{jk} \qquad (5.5) \text{ for model 2,}$$

$$V_{ijk}^{2} = Z'_i\alpha_j^2 + X'_{jk}\beta^2 + \gamma\widehat{w}_{ijk} + \varphi^F F_{jk} + \varphi^H \widehat{H}_{jk} + \varphi^E \hat{\epsilon}_{jk}^{H} + \varphi^D D_{jk} \qquad (5.6) \text{ for model 3,}$$

[22] The result comparison between model 1 and 2 indicated that adding provincial dummies for Bangkok and Samut Prakan improved the model's specification measured by the log-likelihood values. Thus, the provincial dummies were also employed in the model 3.

where F_{jk} is the share of food expense at k^{th} province in j^{th} region[23], $\widehat{H}_{jk}$ is the share of predicted housing expense at k^{th} province in j^{th} region[24], and $\hat{\epsilon}_{jk}^{H}$ is the predicted residual of housing estimation.[25] Model 3 was estimated only in 2002, 2004, 2006, 2007, and 2011 according to the availability of food and housing expense data.

As described in section 4.1, this research estimated the location choice model following the structure of the two-level nested logit model. The top level explains the probability of choosing a region, and the bottom level explains the probability of choosing a province given a chosen region. According to this structure, the coefficients of the top level do vary across choices. In other words, each variable will affect the choice probability differently. For example, a female coefficient might be positive for the North but negative for the Northeast. On the contrary, the coefficients of the bottom level do not vary across choices; hence, they have the same effect on the choice probability. For example, if a distance coefficient is negative, an increase in distances will lead to a decrease in probabilities choosing all provinces. This research also computed elasticities to interpret the effect of bottom-level coefficients as a common measurement of a marginal effect of a covariate. The next following paragraphs will elaborate the coefficients of both top and bottom levels, and the elasticity will be demonstrated in the next section.

[23] The share of food expense was the average food expense of all employees divided by the average monthly wage of all employees in k^{th} province and j^{th} region. All employees included both groups of migrants and non-migrants.
[24] The share of predicted housing expense was the predicted average housing expense divided by the average monthly wage. The predicted average housing expense was estimated by equation (4.17). These two data sets were the average values of all employees that included both groups of migrants and non-migrants.
[25] The predicted residual of housing estimation was used to prove the endogeneity problem that is $Cov(H_{jk}, \epsilon_{ijk}) \neq 0$.

The estimates of NLM are reported in Table 5-3 and Table 5-4. The main variable of focus was the counterfactual monthly wages estimated by the selection-corrected wage equation (5.2). The coefficients associated with the wages were significantly positive in model 1 and 2 except for 2005 (model 2), 2006 (model 3), and 2011 (model 1 and 2). A political crisis occurred in 2005 and the military coup took place in September 2006. In 2011, there were severe protests starting from March 2010 that appeared to generate the negative wage coefficients in models 1 and 2; however, after adding the food and housing shares, the wage coefficient became positive in model 3. The differences across the political crises of 2005, 2006, and 2011 were that the military coup affected the economy across the whole country, while the severe protests were concentrated in downtown Bangkok and its surrounding areas. The migrants might be still able to move into the other areas of Bangkok and other provinces. I presumed that these political circumstances encouraged workers to move to the relative lower-wage areas instead of Bangkok, possibly giving the negative wage coefficient of those years. For example, in 2011, the number of migrants moving to Phayao represented the highest share of 5.38% in total labor force while this province has an average monthly wage of 5,183 Baht compared to 7,935 Baht in Bangkok. Based on this situation, this larger share of migrants to Phayoa generated a temporary excess supply of labor and reduced its wage rate. Consistent with this interpretation, the average monthly wage in Phayao actually increased by 14% from 2008 to 2010, and then fell by 30% in 2011.

As has been noted in Chapter 1, a minimal role of wage in labor migration might result from living costs that are not fully reflected in the wage. This research, thus, decided to add food and housing shares in average monthly income to represent living costs. The relationship between the choice probability and food/housing shares was expected to be negative. Nonetheless, the food expense

share had a positive coefficient in 2007 as reported in Table 5-3. Considering the following average food shares of all provinces: 0.36, 0.34, 0.29, 0.22, and 0.30 in 2002, 2004, 2006, 2007, and 2011, respectively, we observed that the average food share in 2007 was lowest, and thus, the food share coefficient seemed to have a positive impact on labor migration. There was a concern with an endogeneity problem that caused this positive food share coefficient. However, I argued that there was no increase in demand for labor in the food industry because the growth rate of the gross domestic product in the food industry was almost stable (~1% from 2006 to 2007). For the housing expense share, the predicted residuals of housing expense estimation were always significant, and thus, the housing expense was an endogenous explanatory variable[26]. This variable had a positive coefficient in 2011. This might be because the instability of the political situation resulting in depressed growth in the housing market as indicated by an 1.3% increase in housing price index from 2010 to 2011 relative to a 2% and 2.5% increase from 2009 to 2010 and from 2011 to 2012, respectively.

For the employment rate, its relationship with the choice probability was expected to be positive. This was because it served as a signal informing migrants of possible working hours. Nonetheless, its coefficients were negative in 2004 (model 1 and 2), 2007 (model 3), 2011, and 2012. In 2004, the primary policy of Thai government to support local people in villages to create their own businesses generated the highest average employment rate in all provinces (99.04% with the lowest standard deviation of 0.0073) compared to all other years. Accordingly, migrants might move to a province with a low employment rate relative to their original provinces due to this policy;

[26] An endogenous explanatory variable is an independent variable that are dependent of error term.

notwithstanding, according to the standard deviation of employment rates of 2004, the slightly difference in employment rates would cause indifferent preferences of migrants. The next section also showed a lowest effect of employment rate on the choice probability in 2004, i.e. a 1% increase in employment rates of a province led to a 0.04% decrease in probabilities moving to such a province. However, the coefficient of employment rate in 2004 turned out to be positive after adding food and housing shares. In this case, adding food and housing shares seemed to clarify not only the role of wages but also the role of employment rates. Migrants, who were concerned about living costs, would be more concerned about the employment rates; in other words, they will try to get more hours of work to cover their living costs. The results of 2007 showed a negative coefficient of employment rate after adding food and housing shares. It indicated that adding living costs decreased an effect of employment rate on choice probabilities that was an opposite result to 2004. There was a political crisis in 2007 that might cause an economic concern. This led to a relative large effect of food and housing shares, i.e. a 1% change in food and housing shares of a province was associated to a change in probabilities of 1.63% and -3.13% for moving to that province, respectively, as described in the next section. To put in another way, I presumed that migrants moving to a province to look for jobs do not expect a high wage or working hours in a political crisis time, but rather they will choose a province that has a low cost of living. The political crises in 2007 and 2011 as well as the substantial flooding in 2012 also resulted in the negative effect of employment rates on labor migration for all models, as shown in Table 5-3.

There was a concern about endogeneity problems causing the positive coefficients of employment rate. I assumed that the employment rate was an exogenous variable because the proportion of in-migrants to the total labor force in each province (less than 3% of total labor force). There is also

a possibility that foreign workers might reduce a demand for native workers, and thus the employment rate would decrease. However, there was a tiny increase and decrease in the employment rates among the sample periods. The average employment rates of all provinces changed within a range of 98.11% - 99.04%. If there was a significant effect of foreign workers on labor market in Thailand, a continual decrease in both employment rates and wages should be more distinctively measured. To further dispense with the argument that Burmese or Laotian migrants to Thailand are affecting wage rates and internal migration decisions of Thai workers, Kulkolkarn & Potipiti (2007) argued that their immigration had a zero effect on the native workers' wages.

The relationship between distances and migration probabilities are expected to be negative. This is because the distances represent a cost to migrants; hence, a high cost of migration should decrease migrants' preferences of province-to-province moving. The distance coefficients were always negative and significant for all models and all years as expected. These coefficients do not vary across models, for example, the coefficients of -0.0011, -0.0012, and -0.0013 in 2006 are shown in model 1, 2, and 3, respectively. It is possible to conclude that a further distance will reduce the probability of migration; however, the migration costs is not a primary cost as the same as living costs at destinations in migrants' viewpoints. This is an unsurprising result because a migration cost is a one-time cost that would have a smaller effect on migrants than an ongoing cost or benefit. Put differently, migrants will pay more attention for other factors, i.e. wages, employment rates, food and housing shares that affect migrants' lifetime benefits if they will move to a destination permanently.

Moving to an interpretation of coefficients in the top level, as has been noted in Chapter 4, these coefficients were interpreted as a comparison to the base category. The nature of the logistic model is that it normalized a coefficient of a region to zero, and this region will serve as a base category. In other words, a coefficient in the top level represents a logarithm of the ratio of the probability of moving to a region, to the probability of moving to the base region. For example, if the Center was the base region and the coefficient of female in the North was positive, female migrants were more likely to move to the North relative to the Center. The Center was an appropriate base category because the capital city was located in this region and it was dominated by business and industrial activities that always attract migrants. The share of migrants in this region was also higher than all other regions for all years (~45%-50%) except for 2011 and 2012 (~32%). The Center was also considered as an urban area while the other regions were rural areas as mentioned in Chapter 1. Given these pointes, a coefficient in the top level allows us to consider a propensity of migrants to move to a rural area relative to an urban area.

Female workers were less likely to move to the North and Northeast relative to the Center for all years, but the female coefficient was insignificant in the North in 2006. On the other hand, females were more likely to move to the South relative to the Center in most years. Married workers were more likely move to the North in 2002, 2005, 2011, and 2012. They also tended to move to the Northeast in 2007-2008 and 2011-2012; whereas, the South was inclined to be their destination in 2012 insignificantly. The relatively young workers were more likely move to the North in 2005 and 2007-2008, and to the Northeast in 2004-2005 and 2007-2008. For the South, they were more likely to move there for all years except 2002. Unsurprisingly, the workers moving to the North, Northeast, and South were clearly concentrated in the agricultural sector since the Center was

always dominated by non-agricultural activities. This was possible to conclude because workers were more likely to move to the non-agricultural sector in the Center and move to the agricultural sector in other regions. Overall, the results were consistent with the descriptive analysis as shown in section 3.2.1 and 3.2.2.

The dissimilarity parameters that served the random utility maximization appeared in 2002, 2004, 2005, 2006, and 2008. In 2007, 2011, and 2012, these were the times of crisis including the military coup, the violent Bangkok area protest, and the greatest flooding, respectively; therefore, these crisis situations might violate the correlations among choices by raising a complementary relationship between provinces within the same region. Moreover, Train, McFadden, and Ben-Akiva (1987) argued that dissimilarity parameters greater than one imply the substitution between regions was more considered than between provinces within a region. For example, if a worker had been living in Phuket, located in the South, and wanted to move to another province, he or she would first consider the provinces in other regions rather than within the South.

Another concern in estimating the location choice model in this research resulted from the instability of the political situation in Thailand. This can be observed by the probability of moving to each province estimated from the location choice model (equation 5.3). In 2002, Bangkok and Samut Prakan had the highest probability of 0.23. Nonetheless, when there was a political crisis in 2005, the probability of moving to Bangkok and Samut Prakan fell to 0.037 and 0.036, respectively. The bottom ten provinces in 2002 were concentrated in the South region; however, the 75^{th} and 76^{th} provinces in 2005 were Chiang Mai and Chiang Rai that were dominated by the

"Red Shirt" party.[27] Given these points, it is possible to conclude that the results of estimating the choice model do vary across years because of the crisis situation in Thailand, and this is a reason for not pooling data to have a multiple cross-section data and use year dummies.

[27] Source: "Profile: Thailand's reds and yellows" (BBC News, 2012)

Table 5-3 Estimates of The Nested Logit Model of Group 1 in The Third Step for 2002 and 2004-2006

	2002			2004			2005		2006		
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3	Model 1	Model 2	Model 1	Model 2	Model 3
Bottom Level											
Wage	0.00053	0.00046	0.00051	0.00059	0.00055	0.00055	0.00083	-0.00092	0.00150	0.00049	-0.00008
Employment Rate	0.05150	0.09662	0.08004	-0.05129	-0.01885	0.03942	0.26260	0.17127	0.05684	0.13549	0.03521
Distance	-0.00153	-0.00155	-0.00163	-0.00147	-0.00149	-0.00149	-0.00150	-0.00160	-0.00109	-0.00120	-0.00134
Food Share	-	-	-1.55727	-	-	-1.27790	-	-	-	-	-1.73841
Predicted Housing Share	-	-	-1.05091	-	-	-4.22686	-	-	-	-	-5.37774
Predicted Error of Housing Estimation	-	-	0.000004	-	-	0.00013	-	-	-	-	0.00009
Bangkok and Samut Prakan Dummy	-	0.43748	0.57947	-	0.91473	0.89477	-	1.15546	-	1.02631	1.16694
Top Level											
Center (base category)											
North											
Female	-0.48691	-0.49105	-0.48173	-0.04997	-0.04262	-0.04080	-0.29789	-0.28798	0.01013^{NS}	0.02251^{NS}	-0.00781^{NS}
Married	0.07228	0.07817	0.06483	-0.29559	-0.31452	-0.31772	0.63060	0.61770	-0.13380	-0.12787	-0.20712
Age[a]	-0.30036	-0.30198	-0.28400	-0.10136	-0.06915	-0.06537	-0.09000	-0.04002	0.23128	0.42478	0.22652
Age squared[b]	0.00464	0.00466	0.00439	0.00125	0.00085	0.00080	0.00103	0.00032	0.46393	0.54407	0.299307
Non-agricultural sector	0.16945	0.17841	0.21231	-1.90291	-1.73545	-1.71999	-1.18713	-1.10195	-1.85814	-2.12553	-2.46936
Hausman Test (Chi-squared)	239.75	704.69	524.48	219.89	1078.37	755.46	115.19	320.54	55.32	400.15	136.55
Northeast											
Female	-0.07324	-0.0686	-0.06096	-1.02153	-1.02048	-1.02473	-0.41228	-0.39281	-0.07091	-0.10004	-0.06451
Married	-0.26854	-0.2768	-0.28179	-0.27657	-0.28299	-0.28177	-0.73422	-0.74509	-0.56674	-0.65362	-0.64146
Age[a]	-0.23874	-0.2274	-0.20206	0.01059	0.05363	0.05062	0.03163	0.11934	-0.20343	-0.32993	0.03440^{NS}
Age squared[b]	0.00352	0.0033	0.00296	-0.00082	-0.00147	-0.00142	-0.00064	-0.00189	1.51085	1.38564	1.73494
Non-agricultural sector	0.30138	0.3382	0.40319	-2.72715	-2.62985	-2.62697	-3.48445	-3.40599	-3.26260	-3.72709	-4.01235
Hausman Test (Chi-squared)	195.52	846.70	629.98	189.16	1131.79	736.22	133.51	394.63	32.98	384.27	113.10
South											
Female	0.12058	0.12662	0.13934	0.24925	0.25501	0.24415	0.62733	0.64981	0.36083	0.39659	0.39889
Married	-0.00710^{NS}	-0.00905^{NS}	-0.00766^{NS}	-0.54674	-0.56204	-0.56377	-0.59376	-0.56605	-0.01219^{NS}	-0.01721^{NS}	-0.09098
Age[a]	-0.14460	-0.13711	-0.11095	-0.01753	0.01823	0.02205	-0.00776	0.04408	0.04259*	0.20231	0.06397
Age squared[b]	0.00217	0.00205	0.00166	0.00055	0.00010	0.00004**	0.00028	-0.00043	0.72546	0.83760	0.69216
Non-agricultural sector	-1.34270	-1.32733	-1.29413	-2.49487	-2.36465	-2.34399	-2.38964	-2.28651	-2.17383	-2.44109	-2.71843
Hausman Test (Chi-squared)	87.32	691.57	547.72	103.91	998.55	714.31	63.00	272.59	22.74	367.70	112.19
Dissimilarity Parameters											
Center tau	0.13592	0.16782	0.23849	0.19666	0.36634	0.34482	0.38121	0.58367	0.50715	0.45588	0.44902
North tau	0.75641	0.84720	0.86471	0.70780	0.74140	0.73896	0.52470	0.54098	0.46274	0.43730	0.66610
Northeast tau	0.27648	0.26979	0.30956	0.33761	0.35238	0.43537	0.86692	0.65241	0.66494	0.80369	0.82360
South tau	0.73770	0.76782	0.77243	0.62869	0.65559	0.59941	0.61255	0.61071	0.70547	0.70003	0.82782
Number of cases[c]	968	968	968	1295	1295	1295	719	719	739	739	739
Log-likelihood	-1047771.5	-883390.4	-873460.4	-1677650.6	-1443947.4	-1410029.2	-960304.7	-894238.5	-956019.9	-857177.25	-847427.8
LR test for IIA (Chi-squared)	4026.81	23180.37	11204.49	33861.92	7744.06	11520.04	9183.28	2519.93	5030.14	6512.83	8042.45

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that had no superscript have p-value < 0.01;
[a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;
[c] The number of cases without survey weight

Table 5-4 Estimates of The Nested Logit Model of Group 1 in The Third Step for 2007-2008, and 2011-2012

	2007			2008		2011			2012	
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 1	Model 2	Model 3	Model 1	Model 2
Bottom Level										
Wage	0.00007	0.00008	0.00003	0.00039	0.00024	-0.00007	-0.00007	0.00022	0.00116	0.00081
Employment Rate	0.02877	0.11328	-0.01988	0.05357	0.03368	-0.57001	-0.63641	-0.50358	-0.08264	-0.16161
Distance	-0.00187	-0.00177	-0.00182	-0.00140	-0.00140	-0.00196	-0.00188	-0.00183	-0.00183	-0.00186
Food Share	-	-	7.62044	-	-	-	-	-11.06429	-	-
Predicted Housing Share	-	-	-17.75078	-	-	-	-	3.45917	-	-
Predicted Error of Housing Estimation	-	-	-0.00009	-	-	-	-	-0.00050	-	-
Bangkok and Samut Prakan Dummy	-	4.06882	2.55264	-	1.47983	-	3.79583	0.72597	-	0.98101
Top Level										
Center (base category)										
North										
Female	-0.69323	-0.68057	-0.74074	-0.19453	-0.18199	-1.67319	-1.67872	-1.71856	-0.59259	-0.63249
Married	-0.63869	-0.69731	-0.58438	-1.01428	-1.02130	0.61753	0.62672	0.59425	0.06316**	0.06755**
Age	0.20318	0.29382	0.08702	0.07048	0.11434	-0.86554	-0.85941	-0.93203	-0.35938	-0.38770
Age squared	-0.00253	-0.00385	-0.00089	-0.00122	-0.00188	0.01164	0.01155	0.01258	0.00407	0.00439
Non-agricultural sector	-1.38173	-1.30045	-1.75177	-2.95360	-2.95027	0.72510	0.75736	0.67751	6.38039	6.99042
Hausman Test (Chi-squared)	104.40	356.19	369.73	23.96	234.10	16.60**	28.99	47.09	10.75NS	49.89
Northeast										
Female	-0.73392	-0.73117	-0.78145	-1.55524	-1.56090	-0.77999	-0.78331	-0.76177	-0.81915	-0.84113
Married	0.18455	0.13066	0.34994	0.33132	0.34035	1.59124	1.59692	1.64851	0.84256	0.87849
Age	0.17696	0.26522	0.00120NS	0.19697	0.26038	-0.22970	-0.23052	-0.23554	-0.68792	-0.71102
Age squared	-0.00186	-0.00310	0.00034	-0.00425	-0.00527	0.00397	0.00397	0.00407	0.00901	0.00928
Non-agricultural sector	-1.60646	-1.46704	-2.18244	-2.68835	-2.67282	-1.16309	-1.15320	-1.12556	-3.46561	-3.60013
Hausman Test (Chi-squared)	125.25	373.74	400.71	29.64	253.09	13.13NS	22.29	32.25	17.01**	52.33
South										
Female	-0.11169	-0.09568	-0.13391	0.26751	0.27864	0.34986	0.41143	0.22796	-0.18738	-0.16913
Married	-0.56810	-0.58179	-0.53778	-0.76734	-0.77912	-0.55113	-0.51497	-0.57513	0.04849NS	0.04030NS
Age	0.11473	0.15862	0.00334NS	0.14492	0.20325	0.48756	0.66681	0.23360	0.23765	0.25829
Age squared	-0.00122	-0.00185	0.00021	-0.00219	-0.00305	-0.01018	-0.01334	-0.00592	-0.00399	-0.00434
Non-agricultural sector	-1.62952	-1.55955	-1.95915	-2.57426	-2.57191	-2.37531	-2.44734	-2.27001	-4.79377	-4.96468
Hausman Test (Chi-squared)	68.84	310.96	295.10	26.80	247.33	16.98**	28.89	22.85**	14.18*	48.94
Dissimilarity Parameters										
Center tau	1.77039	2.00963	0.99222	0.55250	0.73263	1.63738	2.18362	1.13226	0.64581	0.59538
North tau	0.56742	0.62503	0.78591	0.74612	0.81046	6.31764	7.13215	6.45061	0.46172	0.40888
Northeast tau	0.53976	0.59746	1.01526	0.28516	0.25401	2.13592	2.95671	1.96324	5.42227	5.56450
South tau	1.74455	2.05979	1.69954	0.47930	0.46216	0.38674	0.38536	1.20069	0.78397	0.71809
Number of cases	611	611	611	610	610	114	114	114	186	186
Log-likelihood	-808866.6	-748780.7	-727287.0	-742407.0	-693660.3	-154735.3	-148542.1	-146675.0	-212046.3	-203903.7
LR test for IIA (Chi-squared)	5843.86	7960.26	4314.60	6237.93	5396.97	5422.22	5502.93	7087.41	5096.49	5996.3

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; NS $p \geq 0.10$; The values that had no superscript have p-value < 0.01;
[a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;
[c] The number of cases without survey weight

5.2 The Elasticities of Labor Migration

This research utilized the two-level nested logit model. As stated in the previous section, the bottom level explains the probability of choosing a province within a region. Elasticities were commonly used to interpret the coefficients in the bottom level allowing us to clarify and compare the effect of covariates on the migration decision. To compute elasticities, the result of estimation from model 2 and 3 were employed. This is because the Hausman's specification test indicated that the IIA property did not exist in model 2 and 3 for all years, but did exist in model 1 for the Northeast in 2011 and for the North in 2012. In other words, the Hausman's specification test of model 1 showed the results conflict with the assumption of the NLM. Because the NLM assumes that provinces within the same region have some similarities regarding to their attributes, the presence of IIA property indicates that provinces in the same region are independent. This ruin the two-level structure. According to the results of model 1, the provinces in the Northeast in 2011 and in the North in 2012 don't need to be grouped into the region choice. As a result, the model 2 and 3 performed the better specification than model 1 to explain the labor migration of group 1.

Recall the elasticities from section 4.2, there were direct and cross elasticities. The direct elasticity is the percentage change in the probability of in-migrating to a province x with respect to a 1% change in an attribute of that province. The cross elasticity is the probability of in-migrating to province x with respect to a 1% change in an attribute of another province y within the same region, or from the different region. In general, the cross elasticities are expected to have the opposite sign to the direct elasticities because the other provinces behaved as substitute choices. For example, for provinces A and B, an increase in wage of province A would induce workers to migrate to A instead of B. However, the cross elasticities within the same region might show the same sign as

the direct elasticities if the provinces in the same region are seen as migrants' complementary choices. For example, an improvement of local economy in big provinces in the Northeast, such as Ubon Ratchathani, Nakhon Ratchasima, and Udon Thani, also trigger economic activities in their neighboring provinces and thus, increase the economic growth of the Northeast, therefore attracting migrants to all provinces in this region. The elasticities were calculated from model 2 and 3 because their values of the Hausman's specification tests proved the appropriateness of the nested logit model significantly. They were also computed for the single male migrants in the agricultural sector that was a primary focus of this research.[28] The elasticities for single male migrants in agricultural and non-agricultural sectors were slightly different (see Appendix D for the elasticities comparison by factor, year, and province).

The direct elasticities, as shown in Table 5-5, Table 5-6, and Table 5-7, are calculated from models 2 and 3 (equation 5.5 and 5.6), respectively. The direct elasticities of the choice probabilities in response to a change in wage rates were larger than the other variables. Regardless of the negative elasticities, the largest effects of a change in wage on the choice probability were seen in the Center. A 1% increase in wages of a province in the Center region increased the probability of moving to that province by 15.8%, 7.8%, and 5.6% in 2002, 2004, and 2006, respectively, for model 2, and 12.62%, 8.4%, and 1.4% in 2002, 2004, and 2011, respectively, for model 3. In 2002 specifically, the probability of a single male migrant in the agricultural sector moving to a province increased approximately 15.8% where looking for a job in either the agricultural or non-

[28] To compute the elasticities, the dummy variables for female, married, and non-agricultural sector were equal to zero.

agricultural sectors if the wages of that province increased by 1%. As has been noted, the Center was the most important region of Thailand because it had the capital city that was surrounded by industrial hubs that always attracted migrants to move there. Consequently, a change in wages of a province in the Center had a relative large impact on labor migration.

Most of the direct elasticities in model 3 were less than model 1 because food and housing expense shares were considered. With a different method, Amare, Hohfeld, Jitsuchon, and Waibel (2012) found that labor migration increased the household incomes approximately 17%-22% for Ubon Ratchathani, Buri Ram, and Nakhon Phanom. Using a similar method, Dahl (2002) indicated that a 1% change in earning differentials between states increased the migration of college-educated workers from the lower-wage to higher-wage states by 9.6%.

The direct elasticities of the choice probabilities due to changes in employment rate were largest in the Center in 2002 (0.55), in the North in 2005-2007 (0.3, 0.29, and 0.17, respectively), and in the South in 2008 (0.12) for model 2. For model 3, the Center had the largest elasticities in 2002, 2004, and 2006 which were 0.32, 0.11, and 0.08 respectively. The average elasticities of all provinces and all years were 0.035 and 0.003 for models 2 and 3, respectively. From both models, the employment rate contributed the smallest effects to the labor migration decision.

The direct elasticities in response to changes in distances indicated that distance had a relatively large effect on the probability of in-migration in the South (-2.5) compared to the other regions in most years. In terms of its geographical characteristics, the South region had the longest length and narrowest width of all provinces, which raises travel costs to migrants compared to other

regions. Averaging across all provinces, a 1% increase in distances between origin and destination decreased the probability of in-migration approximately 2.6% on model 2 and 2% on model 3.

The changes in the shares of food and housing expenses were considered in the model 3 only. As has been noted, the data of average food and housing expenses are available only in 2002, 2004, 2006, 2007 and 2011. Model 3, thus, was computed in these 5 years only to add the food and housing expenses into the model. Nonetheless, because of endogeneity concerns, the food (housing) expenses have been calculated as a share of the monthly wage that was the average food(housing) expense divided by the average monthly wage. This approach allows us to avoid the effect of high food and housing price on migration decisions. According to the theory of labor demand, a high price of products raises a labor demand that is attractive to workers. This is a source of endogeneity problems. Housing expenses are more complicated because its source of endogeneity results from not only a shift of labor demand but also an influence of urbanization that is implicit in housing prices. Accordingly, the housing expenses were regressed against the population density and regional dummies as explained in section 4.3. Then, the predicted housing expense coping with the endogeneity problem was divided by the monthly wage to compute a share of monthly wage. The predicted values of error term from the housing expense estimation were also added into the choice location model to prove an exist of endogeneity problem. The following paragraphs will demonstrate the food and housing share elasticities of migration probability after correcting the endogeneity problem.

As shown in Table 5-7, a 1% increase in food and housing shares at a destination led to a decrease in probabilities moving to that destination for all years except 2007 for the food expense share and

in 2011 for the housing expense share. The shares of food expense had the largest effects in 2002 and 2004 in the Northeast with the direct elasticities of -2.23 and -1.11, respectively. On the other hand, the Center had the greatest effects in 2006 and 2011 according to its elasticities of -0.99 and -2.65. For the shares of housing expenses, the Center also had larger direct elasticities on the choice probabilities than the other regions in 2002 (-0.78), 2004 (-1.97), and 2006 (-1.96). Because of the high volume of economic activities in the Center, the importance of the high cost of living there was predictable. Averaging across all provinces, the direct elasticities of migration probabilities due to changes in the shares of food and housing expenses were -0.71 and -1.29, respectively. Of particular importance to this study, adding the food and housing expense variables into the NLM reduced the effect of wages on labor migration especially in 2006 and 2007 when the military coup occurred. In these two years, the direct elasticities of in-migration probability with respect to a change in the shares of housing expense were larger than the other factors (-1.56 and -3.13, respectively). Due to wages possibly not fully reflecting the cost of living (Dumond, Hirsch, & Macpherson,1999), the mentioned results showed that adding food and housing cost shares decreased slightly the effect of wages on labor migration, i.e. the direct elasticity with respect to wages decreased from 15.84 to 12.62 in 2002. Adjusting wage rates for the destination cost of living clarifies the role of wage more precisely. It is also possible to conclude that the wage rate had a large effect on labor migration in regular years; on the other hand, the food and housing expenses dominated the wage during the abnormal circumstances or in a struggling economy. In showing the negative effect of food and housing shares on wage elasticities, the results were consistent with past empirical studies (Beaudry, Green, & Sand, 2013; Cebula & Alexander, 2006; Congdon, 1991).

Table 5-5 The Direct Elasticities from Model 2 of Group 1 for Wages, Employment Rates, and Distances

		2002	2004	2005	2006	2007	2008	2011	2012
		Direct Elasticity[a]							
With respect to Wage									
Ave.	Center	15.84355	7.81990	-7.51013	5.61693	0.28299	1.94048	-0.23306	12.87306
		(1.24621)	(0.42886)	(0.18092)	(0.22438)	(0.00671)	(0.03330)	(0.00342)	(0.23011)
	North	3.07948	3.65162	-8.05593	5.48407	0.79106	1.66186	-0.09469	17.82798
		(0.00930)	(0.00577)	(0.11035)	(0.06582)	(0.00997)	(0.00784)	(0.00110)	(0.35855)
	Northeast	9.35685	7.44339	-6.58735	3.01918	0.82838	5.20954	-0.18954	1.48122
		(0.10146)	(0.06010)	(0.05577)	(0.00522)	(0.00514)	(0.08160)	(0.00089)	(0.01869)
	South	3.36782	4.09684	-7.10756	3.47730	0.26395	2.88145	-1.25511	10.08883
		(0.00825)	(0.03444)	(0.13229)	(0.01900)	(0.00219)	(0.06335)	(0.07923)	(0.21099)
	Nation	9.06859	6.10757	-7.32737	4.54363	0.52948	2.86876	-0.37950	10.62055
		(5.53626)	(1.91122)	(0.54492)	(1.19104)	(0.26909)	(1.42115)	(0.42328)	(5.89911)
With respect to Employment									
Ave.	Center	0.54658	-0.04949	0.28284	0.28524	0.05607	0.04470	-0.29357	-0.26458
		(0.04183)	(0.00258)	(0.00712)	(0.01203)	(0.00069)	(0.00085)	(0.00439)	(0.00530)
	North	0.11063	-0.02461	0.30240	0.29212	0.17330	0.03989	-0.11700	-0.37771
		(0.00149)	(0.00028)	(0.00395)	(0.00479)	(0.00154)	(0.00033)	(0.00154)	(0.00940)
	Northeast	0.34150	-0.05093	0.24466	0.16034	0.18032	0.12381	-0.23175	-0.03101
		(0.00598)	(0.00075)	(0.00405)	(0.00234)	(0.00230)	(0.00263)	(0.00255)	(0.00031)
	South	0.12165	-0.02744	0.26762	0.18530	0.05584	0.06829	-1.54431	-0.21333
		(0.00153)	(0.00052)	(0.00417)	(0.00173)	(0.00058)	(0.00192)	(0.08437)	(0.00440)
	Nation	0.31952	-0.04023	0.27487	0.23715	0.11331	0.06775	-0.46902	-0.22205
		(0.18917)	(0.01213)	(0.02149)	(0.05948)	(0.06089)	(0.03404)	(0.51971)	(0.12414)
With respect to Distance									
Ave.	Center	-4.43240	-1.93223	-1.13671	-1.14093	-0.38403	-0.88402	-0.33865	-1.18678
		(0.90453)	(0.35873)	(0.20651)	(0.21593)	(0.06673)	(0.14361)	(0.06137)	(0.22029)
	North	-1.07851	-1.23071	-1.76146	-1.63563	-1.76353	-1.09970	-0.22780	-2.76894
		(0.30542)	(0.33740)	(0.52318)	(0.48663)	(0.51296)	(0.30137)	(0.06190)	(0.82881)
	Northeast	-2.42969	-1.91756	-1.22098	-0.73950	-1.48745	-2.79945	-0.41325	-0.20748
		(0.36766)	(0.28689)	(0.18955)	(0.10994)	(0.22459)	(0.44606)	(0.06159)	(0.03073)
	South	-2.37231	-2.57686	-2.76756	-1.83777	-0.94907	-3.14245	-4.43889	-2.60782
		(0.38267)	(0.43885)	(0.50232)	(0.31584)	(0.15297)	(0.58901)	(0.94834)	(0.50723)
	Nation	-2.80202	-1.89039	-1.59795	-1.27959	-1.07254	-1.82715	-1.08781	-1.55763
		(1.41945)	(0.55472)	(0.70437)	(0.50369)	(0.62674)	(1.06060)	(1.65305)	(1.12048)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province.

Table 5-6 The Direct Elasticities from Model 3 of Group 1 for Wages, Employment Rates, and Distances

		2002	2004	2006	2007	2011
		Direct Elasticity[a]				
With respect to Wage						
Ave.	Center	12.61838	8.40044	-0.86957	0.22143	1.40209
		(0.96621)	(0.47864)	(0.03568)	(0.00475)	(0.01768)
	North	3.41660	3.70608	-0.55394	0.25004	0.32396
		(0.01188)	(0.01607)	(0.00679)	(0.00279)	(0.00995)
	Northeast	9.24420	6.11541	-0.44937	0.19583	0.87109
		(0.21018)	(0.11358)	(0.00263)	(0.00070)	(0.01232)
	South	3.78915	4.52023	-0.45098	0.12341	1.32745
		(0.01710)	(0.07442)	(0.00406)	(0.00099)	(0.03557)
	Nation	8.09010	6.06435	-0.61681	0.20337	1.01443
		(4.02139)	(1.91799)	(0.18899)	(0.04271)	(0.42899)
With respect to Employment						
Ave.	Center	0.31875	0.10988	0.07530	-0.01951	-0.43690
		(0.02336)	(0.00599)	(0.00326)	(0.00035)	(0.00568)
	North	0.08989	0.05162	0.05032	-0.02436	-0.09903
		(0.00125)	(0.00069)	(0.00074)	(0.00026)	(0.00312)
	Northeast	0.24709	0.08648	0.04069	-0.01896	-0.26347
		(0.00674)	(0.00175)	(0.00062)	(0.00024)	(0.00429)
	South	0.10023	0.06258	0.04098	-0.01161	-0.40419
		(0.00132)	(0.00153)	(0.00045)	(0.00010)	(0.00754)
	Nation	0.20939	0.08229	0.05474	-0.01900	-0.31194
		(0.10080)	(0.02382)	(0.01550)	(0.00411)	(0.13379)
With respect to Distance						
Ave.	Center	-3.29496	-2.05323	-1.29087	-0.78507	-0.62088
		(0.66877)	(0.38389)	(0.24450)	(0.14225)	(0.11694)
	North	-1.11688	-1.23572	-1.20614	-1.45105	-0.23623
		(0.31656)	(0.34020)	(0.35533)	(0.40934)	(0.06049)
	Northeast	-2.24168	-1.55723	-0.80436	-0.91691	-0.57741
		(0.34890)	(0.22635)	(0.12007)	(0.13332)	(0.08210)
	South	-2.49150	-2.81362	-1.74185	-1.15840	-1.42061
		(0.40355)	(0.49275)	(0.30170)	(0.18915)	(0.26006)
	Nation	-2.39643	-1.88644	-1.23336	-1.03577	-0.67129
		(0.94162)	(0.64942)	(0.40287)	(0.34673)	(0.41171)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province.

Table 5-7 The Direct Elasticities from Model 3 of Group 1 for the Shares of Food and Housing Expenses

		2002	2004	2006	2007	2011
		Direct Elasticity[a]				
With respect to Food Share						
Ave.	Center	-1.92590	-1.04391	-0.99431	1.49319	-2.65015
		(0.41003)	(0.24751)	(0.22128)	(0.36284)	(0.50412)
	North	-0.61281	-0.57720	-0.78011	2.11226	-0.72560
		(0.13498)	(0.12032)	(0.16574)	(0.67873)	(0.11230)
	Northeast	-2.23132	-1.10952	-0.73429	1.94788	-2.06955
		(0.46292)	(0.31987)	(0.09199)	(0.34719)	(0.18980)
	South	-0.72850	-0.72628	-0.55520	0.87689	-2.33324
		(0.08931)	(0.16103)	(0.12086)	(0.18017)	(0.63190)
	Nation	-1.48796	-0.89741	-0.80051	1.63181	-2.01613
		(0.77491)	(0.31639)	(0.22848)	(0.60613)	(0.83763)
With respect to Predicted Housing Share						
Ave.	Center	-0.77943	-1.97278	-1.96047	-2.95525	0.48561
		(0.15762)	(0.37549)	(0.39649)	(0.57541)	(0.08941)
	North	-0.22995	-0.98130	-1.63406	-4.48950	0.11862
		(0.04319)	(0.11937)	(0.43657)	(0.99589)	(0.02418)
	Northeast	-0.75659	-1.84513	-1.33798	-3.29696	0.30579
		(0.17217)	(0.28085)	(0.18070)	(0.52388)	(0.04493)
	South	-0.25385	-1.04102	-1.05023	-1.56716	0.37108
		(0.04753)	(0.26286)	(0.29631)	(0.42113)	(0.11073)
	Nation	-0.55399	-1.54745	-1.56416	-3.12817	0.33747
		(0.29124)	(0.53538)	(0.48367)	(1.14502)	(0.15597)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in food or housing expense shares of that province.

The cross elasticities are reported in Table 5-8, Table 5-9, and Table 5-10. There are cross elasticities within the same region and in the different region. The cross elasticity within the same region (E_{lk}) is the percentage change in the probability of in-migrating to a province x associated with a 1% change in an attribute of another province y given that x and y are located in the same region. The cross elasticity in the different region is the percentage change in the probability of in-migrating to a province m if there is a 1% change in an attribute of another province n given that m and n are located in different regions. The magnitudes and signs of cross elasticities relied on the dissimilarity parameters. For the nested logit model with the dissimilarity parameters within a

unit range, the cross elasticities have the opposite signs to the direct elasticities. As well, the cross elasticities within the same nest have larger effects than in the different nest. This means that all provinces are substitute choices, and the provinces in the same region are more likely to be a substitute than in a different region. However, if the dissimilarity parameters are greater than one, the cross elasticities would have signs the same as the direct elasticities for the provinces in the same region, but not in a different region. According to this condition, the provinces act as complementary choices if they are in the same region, and as substitute choices if they are in a different region. This is consistent with the assumption of Train, McFadden, and Ben-Akiva (1987) who indicated that the substitution across nests was more likely than within nests if the dissimilarity parameters were greater than one.

The dissimilarity parameters within the unit range were shown in 2002, 2004, 2005, 2006, and 2008. In these years, a 1% increase in wages in a province reduced the probability of moving to another province approximately 0.1%-0.3% for the same region and approximately 0.02%-0.04% for the different region in model 2 and 3. The cross elasticities for a change in employment rates were very small, approximately 0.001-0.01 for the same region and approximately 0.0005-0.001 for the different region in absolute terms in model 2 and 3. For a change in distances, the cross elasticities were between 0.04 and 0.09 in the same region, and they were quite stable at 0.01 in the different region. Regarding a change in the shares of food and housing expenses, the cross elasticities were between 0.02 and 0.05 for a change in the probability of in-migrating to other provinces within the same region. For the different region, the cross elasticities were around 0.005-0.006 and 0.002-0.01 for a change in the shares of food and housing expenses, respectively.

The dissimilarity parameters were greater than one in 2007, 2011, and 2012. The cross elasticities for different regions were larger than for the same region in 2007 and 2012. However, this pattern was suspicious in 2011. In 2007, the dissimilarity parameters were greater than one in the Center and the South on model 2, and thus, the attributes of a province in these two regions supported the attractiveness of other provinces within the same regions and competed with the other provinces in the different regions. For example, a 1% increase in the wages in Bangkok, which is located in the Center, increased the probability of in-migration to other provinces in the Center region by 0.0025%, and decreased the probability for migrating to other provinces in the other regions by 0.0084%. Similarly, the same percentage increase in the wages in Phuket, which is located in the South, showed a 0.0077% increase in the probability of moving to other provinces in the South and a 0.0117% decrease to other regions.

Overall, in 2007, the average cross elasticities of all provinces in response to a change in distances were largest in the model 2, 0.013 for the same region and 0.015 for the different region; however, the average cross elasticities of 0.04 was largest in the model 3 in response to a change in the shares of housing expenses for the same and different regions. Whereas, the dissimilarity parameters exceeded a unit range in the Center and South in model 2, and in the Northeast and South in model 3. This meant that the shares of food and housing expenses increased the degree of substitution among provinces in the Center and complementariness among provinces in the Northeast.

In 2011, the dissimilarity parameters were greater than one in all regions except for the South in model 2 while all dissimilarity parameters were greater than one in model 3. Therefore, according

to the signs of cross elasticities, living costs raised the competitiveness of provinces in the North and South. On the contrary, there was a complementary relationship between provinces in the North and Northeast. The average cross elasticities associated with a change in wages, in 2011, were 0.004 and 0.006 for within the same and different regions, respectively, in model 2, and 0.013 and -0.021 for the same and different regions, respectively, in model 3. The average cross elasticities of 0.005 and 0.008 accounted for a change in employment rates for the same and different regions, respectively, in model 2 (-0.004 and 0.007, respectively, in model 3). For a change in distances, the average cross elasticities were 0.02 and 0.016 for the same and different regions, respectively, in model 2 (-0.008 and 0.016, respectively, in model 3). Model 3 accounted for the average cross elasticities of -0.038 for the same region and 0.036 for the different region associated to a change in the share of food expenses whereas the same percentage change in the share of housing expenses resulted in the average cross elasticities of 0.006 and -0.006, respectively for the same and different regions. According to all results in 2011, the employment rates and food expense shares had the largest effect on model 2 and 3, respectively.

The estimation of model 2 for the data in 2012 reported a dissimilarity parameter greater than one only in the Northeast. This indicated that the greatest flooding in this year encouraged workers to move between regions rather than within regions except for the Northeast. In other words, workers who currently stay in a province in the Northeast will be more likely to move to another province in the same region; nonetheless, workers who currently stay in a province in other regions will be more likely to move to different regions. The average cross effects of a change in wages on the probability were -0.27 for the same region and -0.1 for the different region. A 1% increase in employment rates of a province raised the probability of migrating to other provinces by 0.006%

and 0.002% on average for the same and different regions, respectively, and the cross elasticities of 0.04 and 0.02 for the same and different regions resulted from a change in distances. Therefore in 2012, the cross effects of a change in wages were clearly larger than the other variables.

In general, the cross elasticities were less than the direct elasticities. The signs of the cross elasticities clarified the relation between provinces in the same and different regions. For model 2, the wages had the greatest effect on the migratory decisions. After adding the shares of food and housing expenses, the wages still had the largest effects in 2002 and 2004. The effects of housing expense shares were highest in absolute terms in 2006 and 2007 whereas the food expense shares played the greatest role in 2011. The magnitude of the cross elasticities measured the degree of substitution among provinces. However, provinces in the same regions showed the complementary characteristics if those regions had dissimilarity parameters greater than one. This occurred in 2007, 2011, and 2012 which were times of crisis in Thailand. The food and housing expenses played an important role in the migratory decision especially in a troubled economy which can be noticed by the unstable values of dissimilarity parameters.

Table 5-8 The Cross Elasticities from Model 2 of Group 1 for Wages, Employment Rates, and Distances

		2002		2004		2005		2006		2007		2008		2011		2012	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Wage																	
Ave	Center	-0.61316	-0.08597	-0.23343	-0.03744	0.15510	0.03216	-0.15158	-0.03051	0.00252	-0.00842	-0.02716	-0.00688	-0.00345	0.00700	-0.22268	-0.01789
		(1.18499)	(0.16614)	(0.40316)	(0.06466)	(0.18944)	(0.03929)	(0.23076)	(0.04645)	(0.00313)	(0.01044)	(0.03426)	(0.00869)	(0.00338)	(0.00687)	(0.24795)	(0.01992)
	North	-0.03428	-0.00626	-0.07958	-0.02271	0.23289	0.00917	-0.21938	-0.03021	-0.02180	-0.00387	-0.04336	-0.02434	-0.02323	0.00255	-0.64527	-0.00001
		(0.00988)	(0.00180)	(0.02554)	(0.00729)	(0.10242)	(0.00403)	(0.09419)	(0.01297)	(0.00933)	(0.00166)	(0.01199)	(0.00673)	(0.00112)	(0.00012)	(0.47939)	(0.00001)
	Northeast	-0.37863	-0.00394	-0.30209	-0.03778	0.28718	0.16142	-0.07437	-0.04240	-0.02267	-0.00464	-0.23727	-0.02312	-0.01675	0.00105	0.11644	-0.21154
		(0.13982)	(0.00145)	(0.09049)	(0.01132)	(0.05387)	(0.03028)	(0.00863)	(0.00492)	(0.00497)	(0.00102)	(0.10024)	(0.00977)	(0.00097)	(0.00006)	(0.00587)	(0.01066)
	South	-0.08065	-0.02327	-0.15892	-0.05363	0.23437	0.03032	-0.10743	-0.03048	0.00769	-0.01170	-0.14285	-0.02607	0.07683	0.01870	-0.43476	-0.22251
		(0.03596)	(0.01038)	(0.08363)	(0.02822)	(0.12457)	(0.01612)	(0.03827)	(0.01086)	(0.00119)	(0.00181)	(0.09008)	(0.01644)	(0.06951)	(0.01691)	(0.24365)	(0.12470)
	Nation	-0.32695	-0.03608	-0.20245	-0.03721	0.22012	0.05900	-0.13931	-0.03341	-0.00826	-0.00706	-0.10462	-0.01838	0.00359	0.00667	-0.27149	-0.09999
		(0.72994)	(0.10285)	(0.25322)	(0.04089)	(0.14236)	(0.06638)	(0.15059)	(0.02843)	(0.01449)	(0.00680)	(0.10909)	(0.01323)	(0.04613)	(0.01021)	(0.39422)	(0.11581)
With respect to Employment																	
Ave	Center	-0.02112	-0.00296	0.00148	0.00024	-0.00584	-0.00121	-0.00766	-0.00154	0.00050	-0.00166	-0.00062	-0.00016	-0.00434	0.00882	0.00455	0.00037
		(0.04062)	(0.00570)	(0.00256)	(0.00041)	(0.00713)	(0.00148)	(0.01161)	(0.00234)	(0.00061)	(0.00203)	(0.00079)	(0.00020)	(0.00426)	(0.00865)	(0.00504)	(0.00041)
	North	-0.00123	-0.00022	0.00054	0.00015	-0.00875	-0.00034	-0.01168	-0.00161	-0.00479	-0.00085	-0.00104	-0.00058	-0.02870	0.00315	0.01363	0.0000001
		(0.00035)	(0.00006)	(0.00017)	(0.00005)	(0.00387)	(0.00015)	(0.00498)	(0.00069)	(0.00207)	(0.00037)	(0.00029)	(0.00016)	(0.00141)	(0.00015)	(0.01007)	(0.0000001)
	Northeast	-0.01379	-0.00014	0.00206	0.00026	-0.01067	-0.00600	-0.00395	-0.00225	-0.00494	-0.00101	-0.00563	-0.00055	-0.02048	0.00128	-0.00244	0.00443
		(0.00502)	(0.00005)	(0.00061)	(0.00008)	(0.00203)	(0.00114)	(0.00048)	(0.00027)	(0.00110)	(0.00022)	(0.00236)	(0.00023)	(0.00120)	(0.00008)	(0.00010)	(0.00018)
	South	-0.00290	-0.00084	0.00106	0.00036	-0.00884	-0.00114	-0.00572	-0.00162	0.00163	-0.00248	-0.00338	-0.00062	0.09528	0.02318	0.00920	0.00471
		(0.00127)	(0.00037)	(0.00054)	(0.00018)	(0.00474)	(0.00061)	(0.00202)	(0.00057)	(0.00026)	(0.00040)	(0.00210)	(0.00038)	(0.08719)	(0.02122)	(0.00516)	(0.00264)
	Nation	-0.01148	-0.00125	0.00134	0.00025	-0.00825	-0.00220	-0.00727	-0.00175	-0.00184	-0.00147	-0.00248	-0.00044	0.00453	0.00831	0.00569	0.00210
		(0.02505)	(0.00353)	(0.00162)	(0.00026)	(0.00535)	(0.00247)	(0.00766)	(0.00144)	(0.00314)	(0.00134)	(0.00258)	(0.00031)	(0.05743)	(0.01276)	(0.00827)	(0.00244)
With respect to Distance																	
Ave	Center	0.16219	0.02274	0.05488	0.00880	0.02218	0.00460	0.02878	0.00579	-0.00326	0.01087	0.01181	0.00299	-0.00477	0.00969	0.01884	0.00151
		(0.31339)	(0.04394)	(0.09239)	(0.01482)	(0.02523)	(0.00523)	(0.04149)	(0.00835)	(0.00369)	(0.01230)	(0.01402)	(0.00355)	(0.00407)	(0.00826)	(0.01864)	(0.00150)
	North	0.01110	0.00202	0.02464	0.00703	0.04496	0.00177	0.05793	0.00798	0.04316	0.00767	0.02668	0.01497	-0.05534	0.00607	0.08202	0.000001
		(0.00069)	(0.00013)	(0.00252)	(0.00072)	(0.00995)	(0.00039)	(0.01221)	(0.00168)	(0.00913)	(0.00162)	(0.00146)	(0.00082)	(0.01286)	(0.00141)	(0.04393)	(0.0000005)
	Northeast	0.09344	0.00097	0.07465	0.00934	0.05179	0.02911	0.01792	0.01021	0.03945	0.00807	0.12006	0.01170	-0.03623	0.00227	-0.01622	0.02946
		(0.02234)	(0.00023)	(0.01225)	(0.00153)	(0.00225)	(0.00127)	(0.00059)	(0.00034)	(0.00296)	(0.00061)	(0.03366)	(0.00328)	(0.00357)	(0.00022)	(0.00183)	(0.00332)
	South	0.05314	0.01533	0.09210	0.03108	0.08379	0.01084	0.05364	0.01522	-0.02702	0.04111	0.14054	0.02565	0.23520	0.05723	0.10205	0.05223
		(0.01307)	(0.00377)	(0.02894)	(0.00977)	(0.02676)	(0.00346)	(0.00847)	(0.00240)	(0.00073)	(0.00112)	(0.05744)	(0.01048)	(0.15820)	(0.03850)	(0.03391)	(0.01735)
	Nation	0.09112	0.01130	0.05991	0.01264	0.04603	0.01124	0.03717	0.00912	0.01342	0.01503	0.06591	0.01202	0.02026	0.01578	0.03954	0.01751
		(0.19069)	(0.02722)	(0.05972)	(0.01300)	(0.02882)	(0.01132)	(0.02975)	(0.00602)	(0.02825)	(0.01445)	(0.06368)	(0.00953)	(0.12380)	(0.02610)	(0.05294)	(0.02180)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

Table 5-9 The Cross Elasticities from Model 3 of Group 1 for Wages, Employment Rates, and Distances

		2002		2004		2006		2007		2011	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Wage											
Ave.	Center	-0.48107	-0.09789	-0.25584	-0.03807	0.02286	0.00388	-0.00271	-0.00265	-0.01432	-0.02152
		(0.90048)	(0.18323)	(0.45097)	(0.06710)	(0.03698)	(0.00627)	(0.00365)	(0.00356)	(0.01701)	(0.02556)
	North	-0.03442	-0.00691	-0.08135	-0.02306	0.01661	0.00538	-0.00504	-0.00183	0.07124	-0.00979
		(0.01248)	(0.00251)	(0.03242)	(0.00919)	(0.00893)	(0.00289)	(0.00262)	(0.00095)	(0.01001)	(0.00137)
	Northeast	-0.35373	-0.00428	-0.22708	-0.03848	0.01062	0.00635	-0.00178	-0.00194	0.03870	-0.00349
		(0.23692)	(0.00286)	(0.11892)	(0.02015)	(0.00288)	(0.00172)	(0.00076)	(0.00083)	(0.01290)	(0.00116)
	South	-0.08854	-0.02527	-0.18900	-0.05344	0.01092	0.00523	0.00086	-0.00526	-0.03989	-0.05942
		(0.04518)	(0.01290)	(0.11857)	(0.03352)	(0.00585)	(0.00280)	(0.00037)	(0.00224)	(0.02606)	(0.03883)
	Nation	-0.27702	-0.04076	-0.19731	-0.03765	0.01620	0.00508	-0.00234	-0.00277	0.01337	-0.02137
		(0.56572)	(0.11400)	(0.27986)	(0.04366)	(0.02257)	(0.00423)	(0.00313)	(0.00264)	(0.04464)	(0.02935)
With respect to Employment											
Ave.	Center	-0.01217	-0.00248	-0.00335	-0.00050	-0.00197	-0.00033	0.00024	0.00023	0.00446	0.00671
		(0.02283)	(0.00465)	(0.00590)	(0.00088)	(0.00317)	(0.00054)	(0.00032)	(0.00031)	(0.00530)	(0.00797)
	North	-0.00090	-0.00018	-0.00113	-0.00032	-0.00151	-0.00049	0.00049	0.00018	-0.02178	0.00299
		(0.00032)	(0.00007)	(0.00044)	(0.00013)	(0.00081)	(0.00026)	(0.00026)	(0.00009)	(0.00307)	(0.00042)
	Northeast	-0.00943	-0.00011	-0.00321	-0.00054	-0.00096	-0.00058	0.00017	0.00019	-0.01170	0.00105
		(0.00627)	(0.00008)	(0.00168)	(0.00028)	(0.00026)	(0.00016)	(0.00007)	(0.00008)	(0.00388)	(0.00035)
	South	-0.00233	-0.00067	-0.00260	-0.00074	-0.00099	-0.00047	-0.00008	0.00050	0.01220	0.01817
		(0.00117)	(0.00033)	(0.00162)	(0.00046)	(0.00053)	(0.00025)	(0.00004)	(0.00021)	(0.00804)	(0.01198)
	Nation	-0.00715	-0.00104	-0.00268	-0.00051	-0.00143	-0.00045	0.00022	0.00026	-0.00402	0.00657
		(0.01438)	(0.00289)	(0.00368)	(0.00058)	(0.00194)	(0.00037)	(0.00029)	(0.00024)	(0.01366)	(0.00905)
With respect to Distance											
Ave.	Center	0.11858	0.02413	0.05944	0.00885	0.03152	0.00534	0.00903	0.00881	0.00598	0.00898
		(0.21796)	(0.04435)	(0.10355)	(0.01541)	(0.04734)	(0.00803)	(0.01130)	(0.01102)	(0.00606)	(0.00912)
	North	0.01027	0.00206	0.02471	0.00700	0.03190	0.01033	0.02845	0.01033	-0.05060	0.00695
		(0.00207)	(0.00042)	(0.00645)	(0.00183)	(0.01360)	(0.00440)	(0.01773)	(0.00644)	(0.00836)	(0.00115)
	Northeast	0.08002	0.00097	0.05640	0.00956	0.01863	0.01114	0.00832	0.00906	-0.02465	0.00222
		(0.04493)	(0.00054)	(0.02809)	(0.00476)	(0.00458)	(0.00274)	(0.00364)	(0.00396)	(0.00550)	(0.00050)
	South	0.05408	0.01544	0.10763	0.03043	0.03912	0.01873	-0.00773	0.04721	0.03981	0.05931
		(0.01697)	(0.00484)	(0.05793)	(0.01638)	(0.01733)	(0.00830)	(0.00290)	(0.01770)	(0.02265)	(0.03374)
	Nation	0.07283	0.01180	0.05979	0.01259	0.02978	0.01037	0.01011	0.01628	-0.00810	0.01611
		(0.13440)	(0.02768)	(0.07116)	(0.01433)	(0.02989)	(0.00783)	(0.01585)	(0.01807)	(0.03316)	(0.02567)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in food and housing expense shares of another province.

Table 5-10 The Cross Elasticities from Model 3 of Group 1 for the Shares of Food and Housing Expenses

		2002		2004		2006		2007		2011	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Food Share											
Ave.	Center	0.06454	0.01313	0.02650	0.00394	0.02211	0.00375	-0.01800	-0.01756	0.02324	0.03494
		(0.11007)	(0.02240)	(0.04024)	(0.00599)	(0.03055)	(0.00518)	(0.02211)	(0.02156)	(0.01613)	(0.02425)
	North	0.00584	0.00117	0.01212	0.00344	0.02134	0.00691	-0.04205	-0.01526	-0.15701	0.02157
		(0.00172)	(0.00035)	(0.00452)	(0.00128)	(0.00953)	(0.00309)	(0.02835)	(0.01029)	(0.01325)	(0.00182)
	Northeast	0.07722	0.00093	0.03780	0.00641	0.01687	0.01008	-0.01787	-0.01946	-0.08966	0.00808
		(0.04130)	(0.00050)	(0.01515)	(0.00257)	(0.00318)	(0.00190)	(0.00872)	(0.00950)	(0.02330)	(0.00210)
	South	0.01658	0.00473	0.02792	0.00789	0.01227	0.00587	0.00611	-0.03732	0.06147	0.09157
		(0.00750)	(0.00214)	(0.01666)	(0.00471)	(0.00534)	(0.00256)	(0.00357)	(0.02181)	(0.02598)	(0.03870)
	Nation	0.04575	0.00586	0.02637	0.00517	0.01881	0.00643	-0.01891	-0.02116	-0.03826	0.03566
		(0.07315)	(0.01406)	(0.02696)	(0.00455)	(0.01876)	(0.00435)	(0.02436)	(0.01853)	(0.08605)	(0.03576)
With respect to Predicted Housing Share											
Ave.	Center	0.03102	0.00631	0.05888	0.00876	0.05094	0.00864	0.03430	0.03345	-0.00507	-0.00763
		(0.06455)	(0.01313)	(0.11122)	(0.01655)	(0.09214)	(0.01562)	(0.04777)	(0.04658)	(0.00631)	(0.00949)
	North	0.00223	0.00045	0.02092	0.00593	0.04418	0.01431	0.08375	0.03040	0.02576	-0.00354
		(0.00072)	(0.00014)	(0.00747)	(0.00212)	(0.02032)	(0.00658)	(0.03812)	(0.01384)	(0.00435)	(0.00060)
	Northeast	0.02657	0.00032	0.06457	0.01094	0.03074	0.01837	0.02850	0.03104	0.01352	-0.00122
		(0.01483)	(0.00018)	(0.02513)	(0.00426)	(0.00593)	(0.00355)	(0.00966)	(0.01052)	(0.00460)	(0.00041)
	South	0.00576	0.00164	0.03947	0.01116	0.02252	0.01079	-0.00996	0.06080	-0.00984	-0.01466
		(0.00294)	(0.00084)	(0.02383)	(0.00674)	(0.00964)	(0.00462)	(0.00277)	(0.01691)	(0.00456)	(0.00679)
	Nation	0.01881	0.00264	0.04824	0.00912	0.03914	0.01274	0.03576	0.03720	0.00559	-0.00641
		(0.04005)	(0.00806)	(0.06838)	(0.01041)	(0.05537)	(0.01060)	(0.04495)	(0.03113)	(0.01476)	(0.00775)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

Overall, for those migrants looking for a job, the Center was the most attractive region while the South was the least attractive region. This was because a change in provincial attributes in the Center incurred a minimal change in probabilities moving to other regions; on the contrary, a change in probabilities moving to other regions will be relatively large if there is a change in provincial attributes in the South. For example, in 2008, the probability of migration to any province in other regions increased by 0.005% if there was a 1% decrease in wage of Bangkok (the Center region), while the probability of migration to any province in other regions increased by 0.02 if there was a 1% decrease in wage of Phuket (the South region). This is consistent with the descriptive statistics in section 3.2.1 showing the number of in-migrants moving to the South was less than the Center during 2002 – 2012. Even though the average monthly wage of all provinces in the South (~6,000 Baht) was higher than the North (~5,000 Baht) and Northeast (~4,000 Baht), the geographical and job characteristics and might be drawbacks for those who want to migrate to the South. In addition, its geography meant migrants incurred a high cost to move there. This could be measured by the highest average distance of all migrants from any regions to the South (~500 – 600 kilometers). Moreover, the South was a main area for oil palm planting (87% of total planted areas of oil palm in 2012) and natural rubber (63% of total planted areas of natural rubber in 2012) that required skilled workers for planting and harvesting. Thus, even though these jobs offered a relatively high wage, a requirement of specific skill prevent migrants from getting these jobs.

From all aforementioned results, some economic data were used to support the results of group 1 migrants. This was because this group aimed to look for a job at destinations; hence, the economic reasons would provide a credible argument. Notwithstanding, these reasons might not be able to

explain the migration for those moving back to their hometowns (group 2) because some non-economic reasons might dominate the economic determinants. The results of group 3, who moved to create their own business, was expected to be consistent with the group 1's result. The difficulty, however, might result from the small sample size of group 3, and its data was available in 2011 that faced a struggling economy due to violence protests. The result of group 2 and 3 will be detailed in Chapter 7.

Chapter 6: **The Effect of Agricultural/Non-agricultural Factors on Labor Migration**

To consider other factors that possibly affect workers' migratory decisions, this research focused on the agricultural and non-agricultural factors for two reasons. First of all, as has been periodically noted, the non-agricultural sector has been more attractive to farm workers. However, the agricultural sector also served as a good source of employment when there was a slow growth in non-agricultural activities. Subsequently, a change in the relative attractiveness of work in the agricultural and non-agricultural sectors would likely be considered by workers in order to make a migratory decision. In addition to relative price changes, government policies could contribute to the attractiveness of one sector versus the other. A policy, such as raising the minimum price of an agricultural product, might increase desired production of that product leading to an increase demand for agricultural labor and a rise in that wage rate. Likewise, a government policy that subsidized non-agricultural activities might raise the demand for labor in the non-agricultural sector. Given these points, this chapter focuses on the effect of agricultural and non-agricultural factors including government policies and output prices (e.g., rice prices) on labor migration in agricultural sector.

6.1 Agricultural and Non-agricultural Factors

The gross domestic product in the agricultural sector accounted for approximately~10% of total gross domestic product during the 2002-2012 period[29]. This small percentage contrasts with the high percentage of workers who claim some work in the agricultural sector, 41%-44% in the same

[29] Source: National Statistical Office (2012)

period[30]. This group of workers was not guaranteed the minimum wage. Raising prices of agricultural products would seem to be the major policy tool to help farm workers. However, from past evidence worldwide we know that landowners are often major beneficiaries of output subsidy policies. These benefits may fall outside the agricultural sector: non-farm landowners owned 52% of total agricultural lands[31] in 2012. Non-farm landowners were generally hiring workers to cultivate fields and harvest their products, in which case, raising the prices of agricultural products may have had a little effect on the wages of farm workers. If so, that agricultural policy may not have attracted workers to work in agricultural sector. The work in this chapter is aimed at addressing this question.

This research assumed that factors in the agricultural and non-agricultural factors affect labor migration through wages. According to the theory of derived demand for labor, a wage rate reflects the marginal product of labor and the price of the product under profit maximization. Consequently, to measure the effect of agricultural and non-agricultural factors, our approach consisted of two steps. The first step was to estimate the following double-log equation:

$$\ln(AGw_{jk}) = \alpha_0 + \alpha_1 \ln(R_{jk}) + \alpha_2 \ln(AG_{jk}) + \alpha_3 \ln(NonAG_{jk}) + \alpha_4 \ln(NonAGw_{jk}) \quad (6.1)$$

where AGw_{jk} was the average monthly wage of migrants who were working in the agricultural sector at province *j* in region *k*, AG_{jk} was the gross provincial product of the agricultural sector at province *j* in region *k*, $NonAG_{jk}$ was the gross provincial product of the non-agricultural sector at province *j* in region *k*, and $NonAGw_{jk}$ was the average monthly wage of migrants working in the

[30] Source: National Statistical Office (2012)
[31] Source: Office of Agricultural Economics (2013)

agricultural sector at province *j* in region *k*. The monthly wages in this step were estimated with the correction for self-selection bias in the second stage of the location choice model. The rice price was expected to have a very small effect on the migrant's monthly wage in the agricultural sector because agricultural jobs were a small share of total jobs in the two sectors (38% of total employment[32] but this is not a measure of full time employment, only that 38% of total workers did some work in the agricultural sector), and because most migrants from the agricultural sector move to non-agricultural jobs. According to the Labor Force Survey in 2008, migrants moving within the agricultural and non-agricultural sectors were 8% and 66% of total migrants, respectively, while the percentages of total migrants were 15% for moving from agricultural to non-agricultural sectors and 11% for the opposite direction. Rather, we expect that most migrants will be more significantly responding to non-agricultural prices, and thus the non-agricultural wage rate is expected to have a significant, positive, and large effect on the migrants' wages in the agricultural sector. The relatively high wages in non-agricultural sector also induce workers to this sector. During 2002-2012, the average monthly wage of employees in the non-agricultural sector was 66% higher than the agricultural sector[33].

Accordingly, there should be a high degree of labor-supply elasticity between the two sectors such that is an increase in non-agricultural wage rates will induce numerous workers to move from agriculture to the non-agricultural sector. This will cause a decrease in the labor supply to agriculture increase the agriculture wage. This positive effect on the agricultural wage rate of the

[32] Source: Worldbank (2017), Employment in Agriculrual Retrieved May 9, 2017 from http://data.worldbank.org/indicator/SL.AGR.EMPL.ZS?name_desc=true.
[33] Source: Labor Force Survey (2002 -2012).

non-agriculture wage is also expected to be larger than for the other factors, i.e. rice prices, agricultural and non-agricultural GPPs. Increases in agricultural GPP were expected to increase the migrant's monthly wage in the agricultural sector; however, according to the role of non-agricultural prices and the high share of non-agricultural jobs as mentioned earlier, the agricultural GPP is expected to have a smaller effect than the non-agricultural GPP. In the meantime, there is a possibility to see that the effect of the non-agricultural wage will be dominant compared to the non-agricultural GPP as that wage is expected to pick up any effect of an increase in labor demand from an increase in non-agricultural GPP. To sum up, the coefficient of the non-agricultural wage is expected to be significant, positive, and relatively large while rice prices, agricultural and non-agricultural GPPs shall show positive but smaller magnitude coefficients, with a possibility of insignificance.

With regard to the choice of agricultural and non-agricultural factors influencing the demand for labor, this research focused on broad, exogenous factors such as rice prices, and the gross provincial products (GPPs) of agricultural and non-agricultural sectors. For rice prices during the sample period, "the rice pledging policy" had been implemented[34]. This raised rice prices above world price levels and represented government policy toward the highly important rice sector. This policy build upon the tradition in Thai culture of rice being the most important agricultural and food product. Even though Thailand's position as the world's largest rice exporter was lost and it slid to third place in 2012, the dominance of rice production was maintained (rice was grown 53%

[34] Only in 2011, the program of minimum price guarantee was implemented as a policy of the 27th prime minister of Thailand from 2008 to 2011, Mr. Abhisit Vejjajiva.

of total agricultural land[35]). Consequently, growing rice was a main agricultural source of jobs for farm workers, and an increase in rice prices through government subsidization may have induced workers to move into or remain in the agricultural sector.

The monthly wages of migrants in the agricultural sector were less than the non-agricultural sector. As shown in Table 6.1. The average monthly wages of migrants across years in the nominal terms were around 1,600-5,000 Baht (~$46-$145 USD)[36] in the agriculture sector and 5,000-9,800 Baht (~$145-$282 USD)[37] in the non-agricultural sector. In some years, the monthly wages in these two sectors moved in the opposite direction. For example, the average monthly wage of migrants decreased by 17% from 2006 to 2007 in the agriculture whereas it increased by 26.5% in the non-agriculture in the same period. The opposite direction of annual growth of the average monthly wage in these two sectors was also seen in 2005, 2008, and 2012.

Table 6.1 Summary Statistics of Monthly Wages of Migrants in 2002, 2004-2008 and 2011-2012

	2002	2004	2005	2006	2007	2008	2011	2012
In Agricultural Sector								
Average	3353.74	1699.84	2919.32	1952.74	1608.45	2649.10	4958.74	3754.83
Max	3573.12	1762.03	2929.66	2016.00	2024.99	2727.26	5901.61	3937.66
Min	3233.99	1600.31	2910.41	1899.77	1540.08	2612.71	4872.95	3681.38
S.D.	111.54	41.11	5.06	27.84	105.56	24.51	156.45	69.32
In Non-agricultural Sector								
Average	5989.25	5393.37	4968.78	5499.22	6956.66	6241.81	7524.52	9758.19
Max	6381.35	5758.58	5019.69	5753.14	7583.80	6452.13	7723.81	10122.51
Min	5703.59	5173.81	4929.56	5341.08	6651.21	6095.94	7414.36	9554.52
S.D.	164.56	190.87	13.21	150.61	343.73	129.65	75.23	167.75

Source: The Labor Force Survey (2002, 2004-2008, and 201- 2012)

[35] Source: Office of Agricultural Economics (2013)
[36] USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*)
[37] USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*)

The descriptive analysis of rice prices and the GPPs of agriculture and non-agriculture sectors in nominal values are reported in Table 6.2. The average rice price of all provinces has increased continuously from 5,246 Baht (~$152 USD) in 2002 to 14,570 Baht (~$421 USD) in 2012.[38] A sharp increase in rice price occurred in 2004 (~60%) due to the large subsidy implicit in the rice pledging policy. Average GPP in the agricultural and non-agricultural sectors increased by 29% and 20%, respectively in 2004 (8,504 Baht or ~$246 USD and 82,999 Baht or ~$2,401 USD, respectively). The fluctuation in rice prices during 2002-2012 may have been a partial source for the variation in agricultural GPP. For example, the average rice price fell by 10.15% from 2002 to 2004 while the GPP of the agriculture sector had a growth of 8% in the same period which was the lowest value in the sample period. Considering this, there was a potential correlation between rice prices and agricultural gross provincial products; however, the correlation coefficients between these three variables were less than 0.4 indicating a rather weak relationship between them.

The results of step 1, estimation of the wage equation (6.1), are reported in Table 6.3. Rice prices had an insignificant effect on migrants' monthly wages in the agricultural sector in 2002, 2004-2006, and 2011-2012. In 2007 and 2008, a 1% increase in rice prices led to a 1.25% and 0.07% increase in the monthly wage of agricultural workers in 2007 and 2008, respectively. This period was unique in that it was the start of a significant increase in agricultural commodity prices, Thai rice prices rose by 15% and 36% respectively, in those two years, world prices by even more. This broadly-based boom in agricultural prices would have led to an increase in agricultural GDP, with

[38] USD = 34.57 Baht (*Source: http://www.bankofcanada.ca/rates/exchange/daily-converter/ at August, 29, 2016*)

both factors attracting migrants either to stay in the agricultural sector or move back to it. This is exactly what one sees in the data for those two years. The rice pledging policy that increased rice prices by almost 50% from 2002 to 2004 had a zero effect on labor migration. This was expected because a small share of agricultural jobs in total jobs leading most migrants would be likely to respond to non-agricultural prices. The impact of agricultural GPP was significant and positive in 2005, in addition to the 2007-08 years, although the average impact of agricultural GPP in these years was a tiny 0.006%. For the non-agriculture sector wage, its effect on the migrants' wages in agriculture was significant, positive, and relatively large in all years, except in the aforementioned price boom of 2007-2008, and 2012 when many manufacturing locations were flooded by the significant and widespread flooding that year. In fact, no other variable comes close to have such large effects and significance as the non-agricultural wage rate. Rice prices had insignificant and trivially small effects on agricultural sector migrants' wages except in the price boom, and both the GPP variables had tiny or insignificant effects on those wages.

In the next step, the estimated coefficients of agricultural and non-agricultural sectors on wage from equation (6.1), as reported in Table 6.3, were used to calculate the change in probability of labor migration through the elasticities of the location choice model. Recall the direct and cross elasticities with respect to a change in wages as follows:

$\varepsilon_{kk} = \frac{\partial ln(p_{jk})}{\partial w_{jk}} \cdot w_{jk} = \frac{\%\Delta(p_{jk})}{\%\Delta(w_{ijk})}$, $\varepsilon_{lk} = \frac{\partial ln(p_{jl})}{\partial w_{jk}} \cdot w_{jk} = \frac{\%\Delta(p_{jl})}{\%\Delta(w_{jk})}$, and $\varepsilon_{sk} = \frac{\partial ln(p_{rs})}{\partial w_{jk}} \cdot w_{jk} = \frac{\%\Delta(p_{rs})}{\%\Delta(w_{jk})}$,

where ε_{kk} was the direct elasticity that was the percentage change in probability of choosing province *k* in region *j* ($P_{jk,}$) associated to a 1% change in wages at province *k* in region *j*, ε_{lk} was the cross elasticity in the same region that was the percentage change in probability of choosing

province *l* in region *j*,($P_{jl,}$) associated to a 1% change in wages at province *k* in region *j*, and ε_{sk} was the cross elasticity in the different region that was the percentage change in probability of choosing province *s* in region *r*, ($P_{sr,}$) associated to a 1% change in wages at province *k* in region *j*. According to the estimation of equation (6.1), the coefficients represented the wage elasticities with respect to a change in agricultural and non-agricultural factors, and thus, a change in probability is given by the formulas in Table 6.4. Because there are three types of elasticities, changes in the probability of migrating to a province were also considered in three ways: due to a change in a factor of the same province (a direct effect), a change in a factor of another province in the same region (a cross effect in the same nest), and a change in a factor of another province in the different region (a cross effect in the different nest). The elasticities of the location choice models were drawn from models 2 and 3 because the model's appropriateness had been proven by the Hausman specification test. Moreover, this analysis focused on group 1 migrants, who moved to a province to look for a job, because the results showed that economic factors, especially wages, had a significant impact on the choice probability for this group. To compute elasticities, this research focused on single male migrants in the agricultural and non-agricultural sectors.[39] The next sections describe the results of the calculation from the second step separately for the agricultural and non-agricultural sectors as well as summarizes all results with respect to regional comparisons. Appendix E provides additional tables that report the effect of agricultural and non-agricultural factors on labor migration in each sector by province and year.

[39] To compute the elasticities, the dummy variables for female, married were equal to zero as well as the non-agriculture was equal to zero and one for agricultural and non-agricultural sectors respectively.

Table 6.2 Descriptive Statistics of Rice Price, and Gross Provincial Products of Agricultural and Non-agricultural Sectors in 2002, 2004 -2008, and 2011-2012

	2002	2004	2005	2006	2007	2008	2011	2012
Rice Price[a] (Baht)								
Average	5246.16	8336.83	7490.43	7692.76	8861.51	12019.95	13456.57	14569.97
Max	5585	8927	7997	8192	9176	13664	16630	16856
Min	4527	7500	5900	7156	8235	9464	11000	12500
S.D.	221.82	254.71	315.14	330.07	231.76	733.99	1371.26	1375.40
Ag GPP (Million Baht)								
Average	6601.64	8504.49	9215.54	10397.12	11166.96	12868.62	16900.04	17781.92
Max	24265.60	31972.17	35452.02	41459.86	38588.02	46404.72	66060.57	58900.81
Min	997.69	1279.40	1698.78	1811.81	1876.96	1912.80	1883.84	1968.09
S.D.	4841.07	6432.62	6984.51	8300.61	8563.10	9424.81	13481.13	12075.84
Non-ag GPP (Million Baht)								
Average	69317.48	82998.65	90721.66	99772.61	107861.29	114318.85	130301.51	143138.75
Max	2003001.38	2337371.80	2537664.06	2695361.69	2812127.31	2925486.41	3334604.60	3683091.61
Min	4063.90	4525.57	4510.28	4994.52	5321.19	5516.17	6507.06	6766.53
S.D.	231872.80	271155.87	295648.16	315903.54	333132.46	347258.35	392335.37	433715.06

Source: Office of Agricultural Economics (2002, 2004-2008, and 2011-2012)

and National Statistical Office of Thailand (2002, 2004-2008, and 2011-2012)

Note: [a] Hom Mali Prices in Bath per ton at farms

Table 6.3 Estimated Wage Equations in Agricultural Sector

Dependent Variable: ln(Average Monthly Wage of Ag Migrants)								
	2002	2004	2005	2006	2007	2008	2011	2012
ln(Rice Price)	0.01976^{NS}	0.02880^{NS}	-0.00223^{NS}	0.37562^{NS}	1.24602***	0.07421***	0.01395^{NS}	0.06229^{NS}
	(0.03201)	(0.06901)	(0.00462)	(0.04837)	(0.24752)	(0.01684)	(0.04646)	(0.04072)
ln(Ag GPP)	0.00026^{NS}	-0.00824***	0.00037***	-0.00060^{NS}	0.01541*	0.00293**	0.00372^{NS}	0.00205^{NS}
	(0.00208)	(0.00265)	(0.00029)	(0.00156)	(0.00859)	(0.00122)	(0.00397)	(0.00239)
ln(Non-ag GPP)	0.00265*	0.00435**	-0.00048***	0.00044^{NS}	-0.00366^{NS}	-0.00002^{NS}	-0.00035^{NS}	-0.00067^{NS}
	(0.00140)	(0.00183)	(0.00018)	(0.00113)	(0.00629)	(0.00090)	(0.00263)	(0.00224)
ln(Average Monthly Wage of Non-ag Migrants)	1.08686***	0.47512***	-0.05440^{NS}	0.24956***	0.12152^{NS}	-0.01330^{NS}	1.22145**	0.25295^{NS}
	(0.05465)	(0.06585)	(0.07742)	(0.08072)	(0.14207)	(0.05566)	(0.48774)	(0.24426)
Constant	-1.53396	3.12320	8.46380	2.06774	-5.12007	7.27445	-2.55764	5.29808
	(0.53069)	(1.01692)	(0.65117)	(1.07247)	(2.68820)	(0.57185)	(4.06751)	(2.55897)
R-squared	0.8729	0.5968	0.1053	0.5901	0.3572	0.347	0.2395	0.0499
F-test	121.92***	26.27***	2.09*	25.55***	9.86***	9.43***	5.59***	0.93^{NS}

Note: * $p < 0.10$; ** $p < 0.05$; ^{NS} , *** p-value < 0.01, $p \geq 0.10$; Standard deviations in parentheses.

Table 6.4 Changes in Probabilities due to Changes in Agricultural and Non-agricultural Sectors

	A change in probability of migration to		
	the same province[a]	another province in the same nest[b]	another province in the different nest[c]
Due to a change in Rice Prices	$\%\Delta(p_{jk}) = \varepsilon_{kk} \cdot \alpha_1$	$\%\Delta(p_{jl}) = \varepsilon_{lk} \cdot \alpha_1$	$\%\Delta(p_{rs}) = \varepsilon_{sk} \cdot \alpha_1$
Due to a change in Ag GPPs	$\%\Delta(p_{jk}) = \varepsilon_{kk} \cdot \alpha_2$	$\%\Delta(p_{jl}) = \varepsilon_{lk} \cdot \alpha_2$	$\%\Delta(p_{rs}) = \varepsilon_{sk} \cdot \alpha_2$
Due to a change in Non-ag GPPs	$\%\Delta(p_{jk}) = \varepsilon_{kk} \cdot \alpha_3$	$\%\Delta(p_{jl}) = \varepsilon_{lk} \cdot \alpha_3$	$\%\Delta(p_{rs}) = \varepsilon_{sk} \cdot \alpha_3$

Note: [a] A change in probability of migrating to a province due to a change in rice prices/Ag GPPs/Non-ag GPPs of that province; [b] A change in probability of migrating to a province due to a change in rice prices/Ag GPPs/Non-ag GPPs of another province in the same region; [c]A change in probability of migrating to a province due to a change in rice prices/Ag GPPs/Non-ag GPPs of another province in the different region.

6.2 The Effect of Agricultural and Non-agricultural Factors on Labor Migration in the Agricultural Sector

Changes in probability as a direct effect of agricultural and non-agricultural factors for migrants in the agriculture sector from model 2 are reported in Table 6.5. Because the effect of non-agricultural GPPs was insignificant, its results were not shown in the table. As has been noted, the coefficients of non-agriculture sector wage was significant, positive, and relatively large in 2002, 2004, 2006, and 2011. It indicated that a change in probability of moving to a province with respect to a 1% change in non-agriculture sector wages of that province was larger than the effect of rice prices, agricultural and non-agricultural GPPs. For example, in 2002, a 1% increase in non-agricultural wages associated with a 9.86% increase in probability of in-migration on average for all provinces while this probability would increase by only 0.18% and 0.002% if there was a 1% increase in rice price and agricultural GPP, respectively. Regarding an effect of rice prices on the agriculture sector wage, the results were significant only in 2007 and 2008. Its magnitude from

model 2 was largest in the Center (1.03% in 2007 and 0.39% in 2008). This was unsurprising result because the harvested area of rice was highest in the Northeast (>35% of total harvest areas) during 2002-2012. Since the direct effect of agricultural GPP on wages was positive and significant only in 2007 and 2008, the change in probability was considered only in these two years. It indicated that a significant increase in probability of in-migration equaled 0.008% on average for all provinces.

The cross effects were relatively smaller than the direct effects especially for agricultural GPPs as shown in Table 6.6. The greatest impact was found in the Center for both same and different regions as the following explains: a 1% decrease in non-agriculture wages of a province in the Center associated with a 0.67% increase in the probability of in-migration to another province in the same region, whereas the same percentage change of a province in any region except in the Center decreased the probability of migration to a province in the Center by 0.09% in 2002. The positive value of cross changes in the same region in the Center and South in 2007 indicated that the provinces in these regions behaved as complementary choices. For example, an increase in rice prices of any provinces in these two regions will induce workers to migrate to the agricultural sector in other provinces in the same regions as well.

Table 6.5 The Direct Changes in Probability of Moving to a Province based on Model 2 for Agricultural Sector in 2002, 2004-2008, and 2011-2012

		2002	2004	2005	2006	2007	2008	2011	2012
Due to a 1% Change in Rice Prices									
Ave.	Center	0.31315	0.22519	0.01678	2.10984	0.35262	0.14400	-0.00325	0.80187
		(0.02415)	(0.01211)	(0.00040)	(0.08265)	(0.00820)	(0.00242)	(0.00005)	(0.01406)
	North	0.06087	0.10515	0.01800	2.05993	0.98568	0.12332	-0.00132	1.11051
		(0.00018)	(0.00016)	(0.00024)	(0.02398)	(0.01205)	(0.00056)	(0.00001)	(0.02167)
	Northeast	0.18494	0.21435	0.01472	1.13407	1.03218	0.38659	-0.00264	0.09227
		(0.00195)	(0.00168)	(0.00012)	(0.00191)	(0.00623)	(0.00589)	(0.00001)	(0.00113)
	South	0.06656	0.11798	0.01588	1.30615	0.32889	0.21383	-0.01751	0.62844
		(0.00016)	(0.00096)	(0.00028)	(0.00688)	(0.00263)	(0.00453)	(0.00106)	(0.01266)
	Nation	0.17924	0.17588	0.01638	1.70669	0.65974	0.21288	-0.00529	0.66156
		(0.10870)	(0.05467)	(0.00121)	(0.44443)	(0.33308)	(0.10476)	(0.00586)	(0.36503)
Due to a 1% Change in AG GPPs									
Ave.	Center	0.00419	-0.06443	-0.00275	-0.00335	0.00436	0.00568	-0.00087	0.02643
		(0.00032)	(0.00347)	(0.00006)	(0.00013)	(0.00010)	(0.00010)	(0.00001)	(0.00046)
	North	0.00081	-0.03009	-0.00295	-0.00327	0.01219	0.00487	-0.00035	0.03660
		(0.000002)	(0.00005)	(0.00004)	(0.00004)	(0.00015)	(0.00002)	(0.000004)	(0.00071)
	Northeast	0.00247	-0.06133	-0.00241	-0.00180	0.01276	0.01525	-0.00070	0.00304
		(0.00003)	(0.00048)	(0.00002)	(0.00000)	(0.00008)	(0.00023)	(0.000003)	(0.00004)
	South	0.00089	-0.03376	-0.00260	-0.00207	0.00407	0.00844	-0.00467	0.02071
		(0.000002)	(0.00027)	(0.00005)	(0.00001)	(0.00003)	(0.00018)	(0.00028)	(0.00042)
	Nation	0.00240	-0.05032	-0.00268	-0.00271	0.00816	0.00840	-0.00141	0.02180
		(0.00145)	(0.01564)	(0.00020)	(0.00070)	(0.00412)	(0.00413)	(0.00156)	(0.01203)
Due to a 1% Change in Average Monthly Wage of Non-ag Migrants									
Ave.	Center	17.21977	3.71541	0.40857	1.40176	0.03439	-0.02580	-0.28467	3.25629
		(1.32815)	(0.19981)	(0.00965)	(0.05491)	(0.00080)	(0.00043)	(0.00410)	(0.05708)
	North	3.34697	1.73497	0.43826	1.36860	0.09613	-0.02210	-0.11566	4.50966
		(0.009804)	(0.00266)	(0.00582)	(0.01593)	(0.00117)	(0.00010)	(0.001303)	(0.08799)
	Northeast	10.16961	3.53652	0.35837	0.75346	0.10067	-0.06928	-0.23152	0.37468
		(0.10733)	(0.02779)	(0.00295)	(0.00127)	(0.00061)	(0.00106)	(0.001058)	(0.00460)
	South	3.66036	1.94650	0.38667	0.86779	0.03208	-0.03832	-1.53305	2.55201
		(0.008640)	(0.01577)	(0.00694)	(0.00457)	(0.00026)	(0.00081)	(0.09326)	(0.05143)
	Nation	9.85632	2.90184	0.39863	1.13390	0.06434	-0.03815	-0.46354	2.68651
		(5.97743)	(0.90207)	(0.02945)	(0.29527)	(0.03248)	(0.01877)	(0.51361)	(1.48235)

Note: Standard deviations in parentheses.

Table 6.6 The Cross Changes in Probability of Moving to a Province based on Model 2 for Agricultural Sector in 2002, and 2004-2006

		2002		2004		2005		2006	
Due to a 1% Change in Rice Prices									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.01212	-0.00170	-0.00672	-0.00108	-0.00035	-0.00007	-0.05694	-0.01146
		(0.02297)	(0.00322)	(0.01138)	(0.00183)	(0.00042)	(0.00009)	(0.08500)	(0.01711)
	North	-0.00068	-0.00012	-0.00229	-0.00065	-0.00052	-0.00002	-0.08240	-0.01135
		(0.00019)	(0.00003)	(0.00071)	(0.00020)	(0.00022)	(0.00001)	(0.03432)	(0.00473)
	Northeast	-0.00748	-0.00008	-0.00870	-0.00109	-0.00064	-0.00036	-0.02793	-0.01593
		(0.00269)	(0.00003)	(0.00254)	(0.00032)	(0.00012)	(0.00007)	(0.00316)	(0.00180)
	South	-0.00159	-0.00046	-0.00458	-0.00154	-0.00052	-0.00007	-0.04035	-0.01145
		(0.00068)	(0.00020)	(0.00232)	(0.00078)	(0.00027)	(0.00003)	(0.01385)	(0.00393)
	Nation	-0.00646	-0.00071	-0.00583	-0.00107	-0.00049	-0.00013	-0.05233	-0.01255
		(0.01433)	(0.00202)	(0.00724)	(0.00117)	(0.00032)	(0.00015)	(0.05619)	(0.01061)
Due to a 1% Change in AG GPPs									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.00016	-0.00002	0.00192	0.00031	0.00006	0.00001	0.00009	0.00002
		(0.00031)	(0.00004)	(0.00326)	(0.00052)	(0.00007)	(0.00001)	(0.00013)	(0.00003)
	North	-0.00001	-0.000002	0.00066	0.00019	0.00009	0.000003	0.00013	0.00002
		(0.000003)	(0.0000005)	(0.0002)	(0.00006)	(0.00004)	(0.000001)	(0.00005)	(0.00001)
	Northeast	-0.00010	-0.000001	0.00249	0.00031	0.00010	0.00006	0.00004	0.00003
		(0.00004)	(0.0000004)	(0.00073)	(0.00009)	(0.00002)	(0.00001)	(0.00001)	(0.000003)
	South	-0.00002	-0.00001	0.00131	0.00044	0.00009	0.00001	0.00006	0.00002
		(0.00001)	(0.000003)	(0.00066)	(0.00022)	(0.00004)	(0.00001)	(0.00002)	(0.00001)
	Nation	-0.00009	-0.00001	0.00167	0.00031	0.00008	0.00002	0.00008	0.00002
		(0.00019)	(0.00003)	(0.00207)	(0.00033)	(0.00005)	(0.00002)	(0.00009)	(0.00002)
Due to a 1% Change in Average Monthly Wage of Non-ag Migrants									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.66642	-0.09344	-0.11091	-0.01779	-0.00844	-0.00175	-0.03783	-0.00761
		(1.26291)	(0.17707)	(0.18783)	(0.03012)	(0.01011)	(0.00210)	(0.05647)	(0.01137)
	North	-0.03726	-0.00680	-0.03781	-0.01079	-0.01267	-0.00050	-0.05475	-0.00754
		(0.01042)	(0.00190)	(0.01177)	(0.00336)	(0.00541)	(0.00021)	(0.02281)	(0.00314)
	Northeast	-0.41152	-0.00428	-0.14353	-0.01795	-0.01562	-0.00878	-0.01856	-0.01058
		(0.14791)	(0.00154)	(0.04185)	(0.00523)	(0.00285)	(0.00160)	(0.00210)	(0.00120)
	South	-0.08766	-0.02529	-0.07551	-0.02548	-0.01275	-0.00165	-0.02681	-0.00761
		(0.03766)	(0.01087)	(0.03829)	(0.01292)	(0.00653)	(0.00084)	(0.00920)	(0.00261)
	Nation	-0.35535	-0.03922	-0.09619	-0.01768	-0.01198	-0.00321	-0.03477	-0.00834
		(0.78811)	(0.11104)	(0.11952)	(0.01930)	(0.00769)	(0.00359)	(0.03733)	(0.00705)

Note: Standard deviations in parentheses.

Table 6.7 The Cross Changes in Probability of Moving to a Province based on Model 2 for Agricultural Sector in 2007-2008, and 2011-2012

		2007		2008		2011		2012	
Due to a 1% Change in Rice Prices									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	0.00314	-0.01050	-0.00202	-0.00051	-0.00005	0.00010	-0.01387	-0.00111
		(0.00382)	(0.01276)	(0.00249)	(0.00063)	(0.00005)	(0.00009)	(0.01514)	(0.00122)
	North	-0.02716	-0.00483	-0.00322	-0.00181	-0.00032	0.00004	-0.04019	-0.0000004
		(0.01127)	(0.00200)	(0.00086)	(0.00048)	(0.00002)	(0.000002)	(0.02897)	(0.0000003)
	Northeast	-0.02824	-0.00578	-0.01761	-0.00172	-0.00023	0.00001	0.00725	-0.01318
		(0.00603)	(0.00123)	(0.00724)	(0.00071)	(0.00001)	(0.000001)	(0.00036)	(0.00065)
	South	0.00958	-0.01458	-0.01060	-0.00193	0.00107	0.00026	-0.02708	-0.01386
		(0.00143)	(0.00217)	(0.00644)	(0.00118)	(0.00093)	(0.00023)	(0.01463)	(0.00749)
	Nation	-0.01030	-0.00880	-0.00776	-0.00136	0.00005	0.00009	-0.01691	-0.00623
		(0.01793)	(0.00842)	(0.00804)	(0.00098)	(0.00064)	(0.00014)	(0.02439)	(0.00717)
Due to a 1% Change in AG GPPs									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	0.00004	-0.00013	-0.00008	-0.00002	-0.00001	0.00003	-0.00046	-0.00004
		(0.00005)	(0.00016)	(0.00010)	(0.00002)	(0.00001)	(0.00003)	(0.00050)	(0.00004)
	North	-0.00034	-0.00006	-0.00013	-0.00007	-0.00009	0.00001	-0.00132	-0.00000001
		(0.00014)	(0.00002)	(0.00003)	(0.00002)	(0.000004)	(0.0000004)	(0.00095)	(0.00000001)
	Northeast	-0.00035	-0.00007	-0.00069	-0.00007	-0.00006	0.000004	0.00024	-0.00043
		(0.00007)	(0.00002)	(0.00029)	(0.00003)	(0.000004)	(0.0000002)	(0.00001)	(0.00002)
	South	0.00012	-0.00018	-0.00042	-0.00008	0.00029	0.00007	-0.00089	-0.00046
		(0.00002)	(0.00003)	(0.00025)	(0.00005)	(0.00025)	(0.00006)	(0.00048)	(0.00025)
	Nation	-0.00013	-0.00011	-0.00031	-0.00005	0.00001	0.00002	-0.00056	-0.00021
		(0.00022)	(0.00010)	(0.00032)	(0.00004)	(0.00017)	(0.00004)	(0.00080)	(0.00024)
Due to a 1% Change in Average Monthly Wage of Non-ag Migrants									
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	0.00031	-0.00102	0.00036	0.00009	-0.00421	0.00855	-0.05633	-0.00452
		(0.00037)	(0.00124)	(0.00045)	(0.00011)	(0.00405)	(0.00822)	(0.06150)	(0.00494)
	North	-0.00265	-0.00047	0.00058	0.00032	-0.02837	0.00311	-0.16322	-0.000002
		(0.00110)	(0.00020)	(0.00015)	(0.00009)	(0.00132)	(0.00015)	(0.11764)	(0.000001)
	Northeast	-0.00275	-0.00056	0.00316	0.00031	-0.02046	0.00128	0.02945	-0.05351
		(0.00059)	(0.00012)	(0.00130)	(0.00013)	(0.00115)	(0.00007)	(0.00144)	(0.00262)
	South	0.00093	-0.00142	0.00190	0.00035	0.09385	0.02284	-0.10997	-0.05628
		(0.00014)	(0.00021)	(0.00115)	(0.00021)	(0.08181)	(0.01991)	(0.05939)	(0.03040)
	Nation	-0.00100	-0.00086	0.00139	0.00024	0.00439	0.00815	-0.06867	-0.02529
		(0.00175)	(0.00082)	(0.00144)	(0.00017)	(0.05597)	(0.01239)	(0.09906)	(0.02910)

Note: Standard deviations in parentheses.

Recall that the estimations of model 3 were computed only in 2002, 2004, 2006, 2007, and 2011 due to the limited availability of food and housing expense data. Adding these two expenses generally reduced the effect of wages on labor migration, and hence, changes in probability of migration based on model 3 were less than model 2. The direct effects of agricultural and non-agricultural factors from the estimation of model 3 are reported in Table 6.8. The effect of an increase in rice prices was largest in the absolute terms in the North in 2007 (0.31%). For the non-agriculture sector wage, its effect was largest in the Center in 2002 (13.71%). Overall, the estimations of model 3 showed the effect of changes in non-agricultural wages were higher than rice price and agricultural GPP, the same as was observed in model 2. Regarding the cross effects of rice prices, a change in probability of moving to a province were highest in the North (-0.006%) for the same region and in the South (-0.007%) for the different region in 2007. Meanwhile, the cross effects of non-agricultural wages accounted for -0.52% and -0.11% for the same and different regions, respectively.

To sum up, because agricultural employment plays a minimal role in the current Thai labor market, a change in the agricultural wage of migrants was rarely determined by agricultural prices and agricultural GPP. This was an unsurprising result because most workers commonly were responding to non-agricultural prices. A sharp increase in rice prices (~50%) in 2004 also had zero effect on agricultural wage of migrants. In other words, raising agricultural prices did not attract workers to move to the agricultural sector when the source of that price increase was a government policy change (in contrast with prices changing due to world market price movements).

Table 6.8 The Direct Changes in Probability of Moving to a Province based on Model 3 for Agricultural Sector in 2002, 2004, 2006-2007, and 2011

		2002	2004	2006	2007	2011
Due to a 1% Change in Rice Prices						
Ave.	Center	0.24940	0.24191	-0.32663	0.27590	0.01956
		(0.01873)	(0.01352)	(0.01314)	(0.00580)	(0.00024)
	North	0.06753	0.10672	-0.20807	0.31155	0.00452
		(0.00023)	(0.00045)	(0.00247)	(0.00337)	(0.00013)
	Northeast	0.18271	0.17610	-0.16879	0.24401	0.01215
		(0.00404)	(0.00318)	(0.00096)	(0.00085)	(0.00017)
	South	0.07489	0.13017	-0.16940	0.15377	0.01851
		(0.00033)	(0.00207)	(0.00147)	(0.00119)	(0.00048)
	Nation	0.15990	0.17463	-0.23169	0.25341	0.01415
		(0.07896)	(0.05487)	(0.07052)	(0.05287)	(0.00594)
Due to a 1% Change in AG GPPs						
Ave.	Center	0.00333	-0.06922	0.00052	0.00341	0.00521
		(0.00025)	(0.00387)	(0.00002)	(0.00007)	(0.00006)
	North	0.00090	-0.03054	0.00033	0.00385	0.00120
		(0.000003)	(0.00013)	(0.00000)	(0.00004)	(0.000036)
	Northeast	0.00244	-0.05039	0.00027	0.00302	0.00324
		(0.00005)	(0.00091)	(0.00000)	(0.00001)	(0.000045)
	South	0.00100	-0.03724	0.00027	0.00190	0.00493
		(0.000004)	(0.00059)	(0.00000)	(0.00001)	(0.00013)
	Nation	0.00214	-0.04997	0.00037	0.00313	0.00377
		(0.00106)	(0.01570)	(0.00011)	(0.00065)	(0.00158)
Due to a 1% Change in Average Monthly Wage of Non-ag Migrants						
Ave.	Center	13.71445	3.99124	-0.21701	0.02691	1.71258
		(1.02975)	(0.22300)	(0.00873)	(0.00057)	(0.02117)
	North	3.71337	1.76084	-0.13824	0.03038	0.39570
		(0.012531)	(0.00741)	(0.00164)	(0.00033)	(0.011787)
	Northeast	10.04718	2.90557	-0.11214	0.02380	1.06399
		(0.22235)	(0.05253)	(0.00064)	(0.00008)	(0.014646)
	South	4.11829	2.14766	-0.11255	0.01500	1.62141
		(0.017904)	(0.03407)	(0.00098)	(0.00012)	(0.04187)
	Nation	8.79283	2.88131	-0.15393	0.02471	1.23907
		(4.34185)	(0.90526)	(0.04685)	(0.00516)	(0.52053)

Note: Standard deviations in parentheses.

Table 6.9 The Cross Changes in Probability of Moving to a Province based on Model 3 for Agricultural Sector in 2002, 2004, 2006-2007, and 2011

		2002		2004		2006		2007		2011	
Due to a 1% Change in Rice Prices											
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.00951	-0.00193	-0.00737	-0.00110	0.00858	0.00146	-0.00338	-0.00330	-0.00020	-0.00030
		(0.01745)	(0.00355)	(0.01273)	(0.00189)	(0.01362)	(0.00231)	(0.00446)	(0.00435)	(0.00023)	(0.00035)
	North	-0.00068	-0.00014	-0.00234	-0.00066	0.00624	0.00202	-0.00628	-0.00228	0.00099	-0.00014
		(0.00024)	(0.00005)	(0.00091)	(0.00026)	(0.00326)	(0.00105)	(0.00317)	(0.00115)	(0.00014)	(0.00002)
	Northeast	-0.00699	-0.00008	-0.00654	-0.00111	0.00399	0.00238	-0.00222	-0.00242	0.00054	-0.00005
		(0.00456)	(0.00006)	(0.00333)	(0.00056)	(0.00105)	(0.00063)	(0.00093)	(0.00101)	(0.00018)	(0.00002)
	South	-0.00175	-0.00050	-0.00544	-0.00154	0.00410	0.00196	0.00107	-0.00655	-0.00056	-0.00083
		(0.00086)	(0.00025)	(0.00329)	(0.00093)	(0.00212)	(0.00101)	(0.00044)	(0.00269)	(0.00035)	(0.00052)
	Nation	-0.00548	-0.00081	-0.00568	-0.00108	0.00609	0.00191	-0.00292	-0.00345	0.00019	-0.00030
		(0.01111)	(0.00224)	(0.00801)	(0.00125)	(0.00842)	(0.00158)	(0.00387)	(0.00327)	(0.00062)	(0.00041)
Due to a 1% Change in AG GPPs											
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.00013	-0.00003	0.00211	0.00031	-0.00001	0.00000	-0.00004	-0.00004	-0.00005	-0.00008
		(0.00023)	(0.00005)	(0.00364)	(0.00054)	(0.00002)	(0.00000)	(0.00006)	(0.00005)	(0.00006)	(0.00009)
	North	-0.00001	0.00000	0.00067	0.00019	-0.00001	0.00000	-0.00008	-0.00003	0.00026	-0.00004
		(0.000003)	(0.000001)	(0.0003)	(0.00007)	(0.00001)	(0.00000)	(0.00004)	(0.00001)	(0.000036)	(0.0000050)
	Northeast	-0.00009	0.00000	0.00187	0.00032	-0.00001	0.00000	-0.00003	-0.00003	0.00014	-0.000013
		(0.00006)	(0.00000)	(0.00095)	(0.00016)	(0.00000)	(0.00000)	(0.00001)	(0.00001)	(0.000047)	(0.00000)
	South	-0.00002	-0.00001	0.00156	0.00044	-0.00001	0.00000	0.00001	-0.00008	-0.00015	-0.00022
		(0.00001)	(0.000003)	(0.00094)	(0.00027)	(0.00000)	(0.00000)	(0.00001)	(0.00003)	(0.00009)	(0.00014)
	Nation	-0.00007	-0.00001	0.00163	0.00031	-0.00001	0.00000	-0.00004	-0.00004	0.00005	-0.00008
		(0.00015)	(0.00003)	(0.00229)	(0.00036)	(0.00001)	(0.00000)	(0.00005)	(0.00004)	(0.00016)	(0.00011)
Due to a 1% Change in Average Monthly Wage of Non-ag Migrants											
		Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk	Plk	Psk
Ave.	Center	-0.52286	-0.10639	-0.12155	-0.01809	0.00570	0.00097	-0.00033	-0.00032	-0.01749	-0.02628
		(0.95969)	(0.19528)	(0.21010)	(0.03126)	(0.00905)	(0.00153)	(0.00044)	(0.00042)	(0.02037)	(0.03062)
	North	-0.03740	-0.00751	-0.03865	-0.01096	0.00414	0.00134	-0.00061	-0.00022	0.08702	-0.01195
		(0.013163)	(0.002642)	(0.0149)	(0.00424)	(0.00216)	(0.00070)	(0.00031)	(0.00011)	(0.011858)	(0.0016288)
	Northeast	-0.38445	-0.00465	-0.10789	-0.01828	0.00265	0.00158	-0.00022	-0.00024	0.04727	-0.004260
		(0.25064)	(0.00303)	(0.05499)	(0.00932)	(0.00070)	(0.00042)	(0.00009)	(0.00010)	(0.015331)	(0.00138)
	South	-0.09623	-0.02747	-0.08980	-0.02539	0.00273	0.00131	0.00010	-0.00064	-0.04872	-0.07258
		(0.04732)	(0.013509)	(0.05428)	(0.01535)	(0.00141)	(0.00067)	(0.00004)	(0.00026)	(0.03068)	(0.04570)
	Nation	-0.30108	-0.04430	-0.09374	-0.01789	0.00404	0.00127	-0.00028	-0.00034	0.01633	-0.02610
		(0.61081)	(0.12309)	(0.13209)	(0.02061)	(0.00559)	(0.00105)	(0.00038)	(0.00032)	(0.05416)	(0.03562)

Note: Standard deviations in parentheses.

Chapter 7: **The Results of Modeling Labor Migration for Those Moving Back to Their Hometowns and Those Moving to Create Their Own Businesses**

7.1 The Determinants of Labor Migration for Those Moving Back to Their Hometowns

This research focused on the three following groups of migrants: those who move to look for a job, those who move back to their hometowns, and those who move to build their own businesses. The reason for focusing on these three groups was to compare the effect of economic factors on the labor migration for different purposes. This section describes the results of the second group. In this group, the economic factors were expected to have minimal effects on migratory decisions, or the opposite to the result of group 1.

The results of the first step of group 2 are reported in Table 7-1. None of the results showed the dissimilarity parameters within a unit range; however, the Hausman's specification tests do significantly reject the existence of IIA property. Hence, the nested logit model was fit to explain the labor migration for group 2 at the first step. The second step was to estimate the counterfactual wages as shown in Table 7-2. For this group, the cubic polynomial function of estimated probability was used to explain the first-, second-, and third-best options that are all significant, and the sign of each degree represents a back-and-forth decision. The first- and third-degree terms had a positive effect on the migrants' wages in all years except for 2004 and 2011. Regardless of the latter two years, the positive effect indicated that the first- and third-decision served them a better alternative, and the opposite for the second decision.

For this group of migrants, males gained a higher wage than females by approximately 0.1%-0.3% except for 2011. The married migrants were paid 0.1%-0.2% lower than single migrants in 2002, 2005, and 2006; on the other hand, the same percentage accounted for the lower wages of single migrants in the other years. The relatively old migrants seemed to have a high wage before moving, and hence, an average reduction of 0.014% accounted for their wages after moving. The result that a higher education level led to a higher wage was introduced in this group of migrants. The wage differentials between elementary and university educations were approximately 0.05%-1.15%.[40] Undoubtedly, working in the non-agricultural sector provided a higher wage than the agricultural sector (0.4%-0.9%) which was the same as for group 1.

Recall the deterministic component of the additive utility model from equations (5.4), (5.5), and (5.6) that represented model 1, 2, and 3, respectively; model 1 and 3 were used to estimate the location choice model for this group. This was because the provincial dummy for Bangkok and Samut- Prakan was not necessary since none of the migrants moved to these two provinces, and thus, the dummy was also excluded from model 3. The results of estimation in the last step, as shown in Table 7-3, also indicated dissimilarity parameters greater than one following the first step. Nonetheless, the nested logit model was still qualified to explain the labor migration because the Hausman's specification tests rejected the property of IIA significantly for all years.

[40] None of group 2 migrants had no education in 2008.

Table 7-1 Estimates of The Nested Logit Model of Group 2 in The First Step

	2002	2004	2005	2006	2007	2008	2011	2012
Bottom Level								
Employment Rate	-0.52444	0.18101	-0.24389	-0.06667	-0.51636	-0.17214	-0.45947	-0.15613
Distance	-0.00359	-0.00398	-0.00225	-0.00197	-0.00175	-0.00285	-0.00200	-0.00238
Top Level								
Center (base category)								
North								
Female	-0.10099	-0.59709	0.12881	0.01528^{NS}	-0.54308	-0.71076	-1.01291	0.14079
Married	0.10444	1.02656	0.41459	0.01441^{NS}	0.34239	-1.03488	-0.24765	0.31896
Age[a]	-0.00293^{NS}	0.03819	-0.03582	0.11742	-0.22612	0.06974	-0.29535	0.18822
Age squared[b]	0.00008^{NS}	-0.00035	0.00061	-0.03815^{NS}	0.00319	-0.00074	0.00439	-0.00294
Non-agricultural sector	0.19207	-0.19455	-0.77685	-1.22821	-1.39067	0.18449	0.39343	-1.87717
Hausman Test (Chi-squared)	171.60	209.61	117.49	10171.00	55.74	92.25	51.63	76.14
Northeast								
Female	-0.33443	-0.50648	-0.24592	-0.79459	-0.55474	-0.12568	-0.52692	-1.01737
Married	0.12179	0.79175	0.34346	0.97602	0.24006	0.04901**	-0.39177	-0.42970
Age[a]	-0.06839	0.05851	-0.15838	1.42678	-0.19700	0.04796	-0.08163	0.32096
Age squared[b]	0.00098	-0.00057	0.00222	0.92452	0.00331	-0.00015**	0.00122	-0.00537
Non-agricultural sector	0.20075	-0.39502	-1.04043	-0.21413	-0.17633	0.28638	-0.26879	-1.53247
Hausman Test (Chi-squared)	78.61	132.69	88.35	30.80	49.46	95.07	20.52	72.38
South								
Female	-0.55442	-0.10014	1.53447	0.11784	-0.88067	0.68821	-3.06907	0.44497
Married	-1.24735	1.22498	-1.19138	-0.20872	-0.20647	-0.43165	-2.30404	-0.51530
Age[a]	0.53196	-0.07891	-0.14168	-0.67961	0.30603	-0.17708	0.17680	-0.00524^{NS}
Age squared[b]	-0.00902	0.000745	0.00181	0.28887	-0.00696	0.00260	-0.00232	0.00001^{NS}
Non-agricultural sector	0.91067	-0.31687	0.01131^{NS}	-0.38852	-0.40138	0.08985*	-1.05623	-1.11395
Hausman Test (Chi-squared)	229.49	229.49	141.57	74.80	55.85	96.73	47.22	85.93
Dissimilarity Parameters								
Center tau	2.29130	0.75322	1.08436	0.34447	0.79631	0.31495	0.80508	0.51733
North tau	3.31634	1.53862	2.16446	1.36500	2.92038	0.73596	3.03378	0.63353
Northeast tau	4.19434	1.86049	3.13006	0.87065	2.33464	0.90725	2.17124	0.38293
South tau	0.53916	1.91224	2.39865	0.74941	0.19525	1.84710	0.67448	1.54339
Number of cases[c]	405	503	399	252	275	226	164	219
Log-likelihood	-759778.8	-971510.64	-815748.4	-461063.0	-483681.3	-419832.1	-337177.4	-365350.8
LR test for IIA (Chi-squared)	25475.75	7427.57	12319.14	9098.62	9158.26	3381.92	3357.69	9865.11

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that had no superscript have p-value < 0.01;
[a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;
[c] The number of cases without survey weight

Table 7-2 Wage Equations of Group 2

Dependent variable: *ln monthly wage*								
	2002	2004	2005	2006	2007	2008	2011	2012
Female	-0.28248	-0.10784	-0.11362	-0.07467	-0.25532	-0.34509	0.01841	-0.27767
	(0.000519)	(0.000389)	(0.000433)	(0.000585)	(0.000738)	(0.000404)	(0.000395)	(0.000488)
Married	-0.12122	0.09727	-0.19099	-0.15914	0.18726	0.10291	0.08802	0.08930
	(0.000520)	(0.000392)	(0.000456)	(0.000642)	(0.000659)	(0.000405)	(0.000384)	(0.000435)
Age[a]	0.07914	0.02988	0.03655	1.33452	0.20819	0.01613	0.18774	0.09753
	(0.000145)	(0.000066)	(0.000110)	(0.000911)	(0.000144)	(0.000153)	(0.000125)	(0.000110)
Age squared[b]	-0.00094	-0.00033	-0.00047	-0.10263	-0.00266	-0.00042	-0.00267	-0.00126
	(0.000002)	(0.000001)	(0.000001)	(0.000081)	(0.000002)	(0.000002)	(0.000002)	(0.000002)
None Education	6.16243	6.94937	6.52687	3.46991	3.72932	-	5.41213	4.76107
	(0.003116)	(0.002165)	(0.002281)	(0.003784)	(0.003160)	-	(0.002022)	(0.007740)
Less than Elementary	6.06638	6.77810	6.76695	3.37164	3.44506	7.59124	4.69196	6.58943
	(0.00279)	(0.00167)	(0.00211)	(0.00255)	(0.00288)	(0.00235)	(0.00209)	(0.00221)
Elementary	6.01323	6.60413	6.70606	3.30221	3.42624	7.47454	4.77712	6.53701
	(0.00244)	(0.00130)	(0.00193)	(0.00265)	(0.00268)	(0.00246)	(0.00205)	(0.00195)
Lower Secondary	6.15448	6.60289	6.82542	3.58871	3.80318	7.37944	5.12843	6.61703
	(0.00237)	(0.00124)	(0.00188)	(0.00255)	(0.00241)	(0.00237)	(0.00193)	(0.00191)
Upper Secondary	6.47469	6.96763	6.89143	3.30805	3.82371	7.60348	5.19825	6.57319
	(0.00237)	(0.00128)	(0.00195)	(0.00271)	(0.00265)	(0.00247)	(0.00203)	(0.00198)
Postseconadary	6.67339	6.98239	7.08246	2.72251	3.65638	7.34664	5.16920	6.77248
	(0.00310)	(0.00171)	(0.00284)	(0.00310)	(0.00313)	(0.00259)	(0.00212)	(0.00255)
University	6.68968	7.50651	7.40850	3.35673	4.94641	8.10362	5.39532	7.13854
	(0.002710)	(0.001515)	(0.002101)	(0.002695)	(0.002818)	(0.002556)	(0.002292)	(0.002141)
Non-ag Sector	0.61681	0.68812	0.74229	0.94236	0.95897	0.79097	0.42676	0.47001
	(0.000472)	(0.000366)	(0.000412)	(0.000614)	(0.000689)	(0.000474)	(0.000444)	(0.000651)
Pijk	0.96381	-2.55970	16.57533	6.69701	2.32121	1.73610	-0.79112	3.53111
	(0.020394)	(0.037714)	(0.082176)	(0.054579)	(0.041127)	(0.032820)	(0.043974)	(0.030163)
Pijk squared	-12.69104	89.63291	-648.90860	-149.01100	-17.13781	-35.22339	53.62776	-42.89671
	(0.222628)	(1.107201)	(3.815454)	(1.282851)	(0.801919)	(0.677607)	(1.230201)	(0.414445)
Pijk cubed	19.68247	-672.40660	5831.39300	381.55130	55.38470	87.66956	-339.01160	88.54833
	(0.368588)	(7.580392)	(47.400180)	(3.239466)	(2.055915)	(2.294406)	(6.878115)	(1.164885)
R-squared	0.9898	0.9919	0.9929	0.9923	0.9906	0.9970	0.9971	0.9960
Observations[c]	30780	38228	30324	19152	20900	17176	12464	16644

Note: The model was estimated using the survey weight.; Standard errors in parentheses; [a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years; [c] The number of observations without survey weight.

Table 7-3 Estimates of The Nested Logit Model of Group 2 in The Third Step

	2002		2004		2005	2006		2007		2008	2011		2012
	Model 1	Model 3	Model 1	Model 3	Model 1	Model 1	Model 3	Model 1	Model 3	Model 1	Model 1	Model 3	Model 1
Bottom Level													
Wage	-0.00075	-0.00056	0.00829	0.00788	-0.00213	-0.00081	-0.00091	-0.00035	-0.000005^{NS}	0.00156	-0.00063	-0.00077	0.00052
Employment Rate	-0.43443	-0.36242	0.07369	0.06865	-0.16484	-0.04312	-0.03300	-0.55551	-0.23590	-0.07724	-0.43016	-0.07646	-0.10493
Distance	-0.00352	-0.00332	-0.00338	-0.00340	-0.00187	-0.00175	-0.00172	-0.00187	-0.00180	-0.00278	-0.00206	-0.00090	-0.00204
Food Share	-	-0.32379	-	-1.62812	-	-	1.78034	-	-9.42959	-	-	-2.16549	-
Predicted Housing Share	-	-15.13183	-	-1.45407	-	-	-0.39892	-	9.17092	-	-	1.57065	-
Predicted Error of Housing Estimation	-	-0.00141	-	0.00046	-	-	-0.00002	-	-0.00013	-	-	0.00018	-
Top Level													
Center (base category)													
North													
Female	-0.10549	-0.14637	-0.71680	-0.67534	0.16853	0.02892^{NS}	-0.00416^{NS}	-0.56224	-0.46332	-0.68030	-1.00380	-0.85386	0.16130
Married	0.10274	0.18300	1.22098	1.06595	0.35142	0.02725^{NS}	-0.11690	0.35591	0.14468	-0.98314	-0.23903	-0.17987	0.27792
Age[a]	-0.00442^{NS}	-0.13302	0.01417	0.08489	-0.00819^{NS}	0.12714	-0.07642**	-0.23959	0.04240	0.08431	-0.27018	-0.03564	0.16980
Age squared[b]	0.00010^{NS}	0.00190	-0.00013	-0.00076	0.00024	0.02965^{NS}	-0.1652441	0.00338	-0.00047	-0.00099	0.00402	0.00070	-0.00265
Non-agricultural sector	0.20013	0.12461	-0.22138	-0.01414^{NS}	-0.66523	-1.10520	-1.31312	-1.42322	-0.90136	0.13864	0.39967	0.46103	-1.80801
Hausman Test (Chi-squared)	201.14	362.49	223.92	304.68	109.29	121.93	211.73	56.20	74.91	84.75	50.42	123.84	83.32
Northeast													
Female	-0.33999	-0.37437	-0.56441	-0.51837	-0.01972^{NS}	-0.76791	-0.79626	-0.56893	-0.46601	-0.09221	-0.48959	-0.33339	-1.00228
Married	0.11443	0.19507	1.00078	0.81866	0.31508	0.99852	0.83151	0.25228	0.00885^{NS}	0.12472	-0.38606	-0.28769	-0.45108
Age[a]	-0.06656	-0.19522	-0.00313^{NS}	0.08613	-0.12084	1.48288	1.235446	-0.20373	0.10570	0.13649	-0.02794	0.33621	0.32240
Age squared[b]	0.00095	0.00275	0.00002^{NS}	-0.00081	0.00174	1.00732	0.76910	0.00343	-0.00076	-0.00140	0.00044	-0.00476	-0.00538
Non-agricultural sector	0.21903	0.13989	-0.57388	-0.32773	-1.01052	-0.10131	-0.33505	-0.14182	0.39443	0.37985	-0.25969	-0.19623	-1.47730
Hausman Test (Chi-squared)	85.28	241.58	139.53	237.95	122.49	53.27	226.91	49.69	60.43	99.32	22.39	49.40	52.68
South													
Female	-0.57900	-0.63887	-0.14234	-0.15596	1.70129	0.02924^{NS}	0.00613^{NS}	-0.89683	-0.69268	0.69820	-3.08925	-2.47970	0.40918
Married	-1.29306	-1.18446	1.36807	1.30132	-1.26215	-0.34042	-0.43162	-0.22649	-0.27009	-0.46698	-2.31248	-2.05409	-0.49332
Age[a]	0.47057	0.46120	-0.05301	-0.03109	-0.17092	-0.75318	-0.88906	0.32674	0.22275	-0.11377	0.16677	0.21017	0.00325^{NS}
Age squared[b]	-0.00803	-0.00820	0.00045	0.0002966	0.00224	0.09470**	-0.06099^{NS}	-0.00738	-0.00477	0.00170	-0.00211	-0.00239	-0.00009^{NS}
Non-agricultural sector	0.82281	0.77524	-0.48761	-0.35517	-0.39580	-0.63127	-0.83786	-0.38034	-0.19857	0.13159	-1.03150	-0.97559	-1.11363
Hausman Test (Chi-squared)	247.59	420.72	286.94	480.79	154.99	111.26	203.56	56.13	72.62	108.27	56.07	48.17	87.89
Dissimilarity Parameters													
Center tau	2.02480	1.74773	0.63686	0.89784	1.46568	0.27106	0.16582	0.81360	1.01196	0.44084	0.76236	1.00938	0.50115
North tau	3.02201	3.50118	1.55284	1.35242	2.48989	1.23800	1.27223	3.04383	1.50186	0.78042	2.85125	1.67493	0.62520
Northeast tau	3.85677	4.48306	2.06813	1.80002	3.28873	0.73092	0.76108	2.39541	0.98538	0.51269	1.87605	0.16879	0.26724
South tau	0.55398	0.31448	1.50172	1.65687	3.04600	0.78972	0.80760	0.14881	0.72408	1.59428	0.67009	0.42639	1.39720
Number of cases[c]	405	405	503	503	399	252	252	275	275	226	164	164	219
Log-likelihood	-758635.15	-749182.4	-967205.6	-965081.7	-814289.6	-458505.5	-457359.9	-482571.8	-478352.2	-418880.2	-336918.1	-332291.7	-360679.1
LR test for IIA (Chi-squared)	16884.94	33590.06	11161.05	3642.54	11896.89	9303.98	11214.30	11358.66	1573.98	4567.53	3437.63	10039.94	16873.57

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that had no superscript have p-value < 0.01;

[a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;

[c] The number of cases without survey weight

To begin with, the interpretation of the coefficient at the top level including female, married, age, age-squared, and non-agricultural sector was a comparison between probabilities of migrating to a province in North/Northeast/South and Center. Female migrants tended to move to the North rather than the Center only in 2005 and 2011. On the other hand, they were less inclined to move to the Northeast rather than the Center for all years. In 2005, 2006, 2008, and 2012, females were more inclined to move to the South. Married migrants were less likely to move to the North in 2006, 2008, and 2011 and the Northeast in 2011; however, they were less likely to move to the South for all years except 2004. The relatively young workers tended to move to the North and Northeast in 2004, 2007, 2008, and 2012, and they were more likely to move to the South in 2002, 2007, and 2012. Surprisingly, the migrants of group 2 intended to move to work in the non-agricultural sector in 2004-2007 and 2012. All in all, the signs of coefficients at this level varied across years and models. As had been expected, there were many unobserved factors causing the model variation; however, the results were consistent with the descriptive analysis in section 3.2.

Regarding the coefficients at the bottom level, wages had positive effects on the choice probability in 2004, 2008, and 2012; on the other hand, the employment rates showed a positive effect only in 2004. The conditions of the labor market were thus unfavorable to migrants in most years. The coefficients of distances were significant and negative for all years in the same way as for group 1. For the food and housing expense shares, their coefficients indicated that migrants were still concerned about the living cost in their hometowns. An increase in food expense shares declined the probability of labor migration for all years except 2006, whereas an increase in housing expense shares led to an increase in the probability in 2007 and 2011. Nevertheless, the housing expense

share also showed the endogeneity problem in the model of this group in the same was as for group 1.

To interpret the coefficients at the bottom level, the elasticities were calculated as shown in the previous chapter. Moreover, they were also computed for the single male migrants in the agricultural sector that was the primary focus of this research.[41] Appendix F.1 reports the elasticities for the single male migrants by province, factor, and years in both agricultural and non-agricultural sectors. The elasticities are slightly different between these two sectors; hence, this section interprets the results for the agricultural sector that was the primary focus of this research.

The direct elasticities based on model 1 and 3 of group 2 are reported in Table 7-4, Table 7-5, and Table 7-6. In 2004, the effects of wages on the choice probability were incredibly large according to the direct elasticities of 22 for model 1 and 18 for model 3. Regardless of a positive value, the average direct elasticities were between -3.06 and -4.62 across the years. The results indicated that adding food and housing expense shares increased the role of wage in 2006 (-5.07 for model 1 and -7.84 for model 3) and 2011 (-2.99 for model 1 and -9.12 for model 3). This was reasonable because migrants suffer from a relative low wage and high living costs in a struggling economy. As has been noted, the average employment rate of all provinces was highest in 2004 across the sample period, and this resulted in the negative effect on the group 1 migration. Nevertheless, the employment rate had a positive effect on the probability of migration in 2004 only for group 2. In

[41] To compute the elasticities, the dummy variables for female, married, and non-agricultural sector were equal to zero.

this case, the employment rate induced workers to return to their hometowns due to the government's subsidy of local entrepreneurs in all villages across the country; notwithstanding, the employment rates discouraged non-local workers, who were looking for a job (group 1), to migrate to any province that was not their home. Regardless of 2004, a 1% increase in employment rate decreased the probability of migrating to hometowns by 0.3% for model 1 and 0.2% for model 3 on average across the sample period. For distances, it always showed a negative effect for all models and all years. A 1% increase in distances between origins and destinations associated with a 1.6% and 1.5% decrease in the probability of migration for model 1 and 3, respectively. The direct elasticities, with respect to a change in food and housing expense shares, are introduced in model 3 according to the data availability of these two factors. The direct elasticities, with respect to a change in food expense shares, were between -0.1 and -2 excluding the positive value of 1.34 in 2006. For a change in housing expense shares, their direct elasticities were -0.99 on average of the first three years and 1.07 on average of the latter two years. All in all, the direct elasticities, with respect to wages, employment rates, and distances of model 3, were slightly less than model 1.

Table 7-7, Table 7-8, and Table 7-9 show the cross elasticities based on model 1 and 3. The magnitudes of cross elasticities were undoubtedly less than the direct elasticities. As mentioned earlier, the sign of cross elasticities indicated the degree of substitution/complementariness between provinces in the same and different regions. For all regions in 2006, provinces in the same region of the migrant's hometown were considered as a substitution to their hometowns, and thus, workers would easily change their minds to move to another province in the same region if there was a favorable change in the provincial attributes of that province. After adding food and housing

expense shares in model 3, this characteristic was also introduced in 2007. Then, the complementariness among all provinces in the same region was revealed for all regions in 2005 on model 1. This characteristic described that a decrease in wages (employment rates/distances) of a province led to a decrease in the probability of migration to any province in the same region. For other years, the complementariness among provinces were mostly found in the North (2002, 2004, 2005, 2007, and 2011 for model 1 and 2002, 2004, and 2011 for model 3). This was because the cluster of many small provinces with similar graphical features unsurprisingly persuaded workers to consider provinces in the North indifferent from living in their hometowns.

The cross elasticities with respect to a change in wages were between 0.003 and 0.3 in the absolute terms for the same and different regions on both models. For a change in employment rates, the absolute magnitudes of cross elasticities were around 0.0003-0.04 on model 1 and 0.00001-0.007 on model 3. For both models, the cross elasticity in response to a change in distances was 0.026 on average of absolute values for all years. According to the cross elasticities based on model 1, wages had the largest effect on the labor migration, while the smallest effect belonged to the employment rates. On model 3, the cross elasticity due to a change in food expense shares was 0.0167 on average of all years excluding 2006, and the average cross elasticities associated with a change in housing expense shares were 0.017 and -0.017 for the first three years and the latter two years, respectively. All in all, the effects of wage on labor migration were larger than other variables in all years except 2007 on model 3. In 2007, the food expense shares had the largest effect on labor migration, while wage had the smallest effect. The effects of employment rates were smallest in 2004, 2006, and 2011, whereas the food expense shares accounted for the smallest effect in 2002.

According to the results of group 1 and 2, the roles of market condition and local economies behaved differently on different purposes of labor migration. The model of group 2, however, showed more variation than group 1 in accordance with the signs and magnitudes of coefficients that varied across models and years. The government policy and times of crisis were a potential source of variation. For example, the government's subsidy of local entrepreneurs in 2004 might have resulted in the positive effect of wages and employment rates on labor migration for group 2. The troubled economy due to the greatest flooding in 2012, for example, encouraged workers to look for a better income even when returning to their hometowns. The trend of group 2 migrants was to move to the North, Northeast, and South rather than the Center to work in either agricultural or non-agricultural sectors; nevertheless, group 1 migrants were more likely to move to work in the agricultural sector in the North, Northeast, and South and the non-agricultural sector in the Center. As expected, the market conditions were unlikely to benefit migrants of group 2. Distances always served as a good proxy variable for a moving cost. This factor showed a negative effect on labor migration for both groups. All in all, the direct and cross elasticities with respect to a change in provincial attributes for group 1 were larger than group 2 in the absolute terms. Indeed, the comparison between two groups was difficult with regard to an appropriateness of the choice model due to the high variation in the model of group 2 even though the Hausman's specification test rejected the property of IIA.

Table 7-4 The Direct Elasticities from Model 1 of Group 2 for Wages, Employment Rates, and Distances

		2002	2004	2005	2006	2007	2008	2011	2012
		Direct Elasticity[a]							
With respect to Wage									
Ave	Center	-1.15530	37.27525	-4.42399	-9.16157	-1.83885	13.90987	-4.17455	6.43605
		(0.00462)	(0.20366)	(0.03493)	(0.03998)	(0.01448)	(0.10374)	(0.00904)	(0.01707)
	North	-0.82424	15.60501	-2.85485	-2.09665	-0.52014	7.85675	-1.21930	5.22285
		(0.01622)	(0.05070)	(0.03236)	(0.00498)	(0.00245)	(0.10750)	(0.01287)	(0.03325)
	Northeast	-0.59221	11.32733	-1.98617	-3.53154	-0.67726	11.89404	-1.74933	11.99836
		(0.00029)	(0.02557)	(0.04545)	(0.10573)	(0.00813)	(0.32526)	(0.02578)	(0.54124)
	South	-3.94258	16.65255	-2.35399	-3.16601	-9.62094	4.08310	-4.64852	2.42389
		(0.17400)	(0.23254)	(0.03806)	(0.00841)	(1.72061)	(0.05549)	(0.10226)	(0.02432)
	Nation	-1.45392	22.14206	-3.08223	-5.06931	-2.68702	10.24173	-2.99451	6.81617
		(1.21256)	(11.15150)	(1.02007)	(3.01446)	(3.43874)	(3.70910)	(1.45001)	(3.33178)
With respect to Employment									
Ave	Center	-0.21884	0.11288	-0.11222	-0.15227	-0.66636	-0.16878	-0.55352	-0.20350
		(0.00372)	(0.00101)	(0.00082)	(0.00176)	(0.00470)	(0.00188)	(0.00285)	(0.00163)
	North	-0.15414	0.04766	-0.06852	-0.03337	-0.18586	-0.09445	-0.16099	-0.16098
		(0.00310)	(0.00046)	(0.00070)	(0.00028)	(0.00211)	(0.00160)	(0.00183)	(0.00292)
	Northeast	-0.11125	0.03441	-0.04908	-0.05589	-0.23429	-0.14135	-0.22444	-0.36786
		(0.00079)	(0.00036)	(0.00077)	(0.00098)	(0.00311)	(0.00312)	(0.00225)	(0.01889)
	South	-0.75053	0.05031	-0.06066	-0.05287	-3.44917	-0.04942	-0.61482	-0.07585
		(0.03434)	(0.00086)	(0.00092)	(0.00035)	(0.57303)	(0.00087)	(0.01235)	(0.00093)
	Nation	-0.27541	0.06715	-0.07716	-0.08327	-0.96348	-0.12331	-0.39474	-0.21156
		(0.23156)	(0.03371)	(0.02635)	(0.05078)	(1.22990)	(0.04485)	(0.19377)	(0.10158)
With respect to Distance									
Ave	Center	-0.46797	-1.35040	-0.38639	-1.70020	-0.56605	-1.98407	-0.72646	-1.11046
		(0.12837)	(0.36735)	(0.08671)	(0.45979)	(0.16064)	(0.45704)	(0.18172)	(0.28378)
	North	-0.74312	-1.30488	-0.51611	-0.84425	-0.36654	-2.13629	-0.49214	-1.95600
		(0.22747)	(0.40860)	(0.14890)	(0.26929)	(0.12005)	(0.64432)	(0.14750)	(0.62862)
	Northeast	-0.54912	-0.99058	-0.37486	-1.45137	-0.48799	-3.54012	-0.68791	-4.79500
		(0.09569)	(0.18115)	(0.06196)	(0.26106)	(0.08673)	(0.62337)	(0.12114)	(0.99300)
	South	-5.57952	-2.09900	-0.60553	-1.95994	-10.75754	-1.62520	-2.59358	-1.31805
		(1.28848)	(0.40168)	(0.11118)	(0.39882)	(3.23789)	(0.29685)	(0.56959)	(0.25986)
	Nation	-1.49140	-1.38816	-0.45289	-1.49438	-2.37929	-2.34102	-1.00835	-2.25897
		(2.03498)	(0.50287)	(0.13649)	(0.53036)	(4.23060)	(0.88334)	(0.81145)	(1.62239)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province.

Table 7-5 The Direct Elasticities from Model 3 of Group 2 for Wages, Employment Rates, and Distances

		2002	2004	2006	2007	2011
		Direct Elasticity[a]				
Wage						
Ave	Center	-0.99129	25.35523	-16.76371	-0.02104	-3.87091
		(0.00873)	(0.08779)	(0.31343)	(0.00014)	(0.00279)
	North	-0.54280	16.85256	-2.29352	-0.01426	-2.40350
		(0.01547)	(0.02598)	(0.00749)	(0.00006)	(0.00993)
	Northeast	-0.38467	12.33142	-3.81229	-0.02209	-22.57644
		(0.00066)	(0.04744)	(0.11060)	(0.00033)	(0.91913)
	South	-5.10403	14.48746	-3.48323	-0.02906	-8.75575
		(0.49349)	(0.28624)	(0.01296)	(0.00159)	(0.25569)
	Nation	-1.49692	18.19541	-7.84270	-0.02126	-9.11890
		(1.75483)	(5.42909)	(6.50136)	(0.00481)	(8.11716)
Employment						
Ave	Center	-0.20948	0.07530	-0.18978	-0.22888	-0.07499
		(0.00363)	(0.00063)	(0.00391)	(0.00191)	(0.00034)
	North	-0.11324	0.05047	-0.02487	-0.15303	-0.04637
		(0.00306)	(0.00044)	(0.00021)	(0.00111)	(0.00028)
	Northeast	-0.08062	0.03674	-0.04109	-0.22940	-0.42312
		(0.00055)	(0.00039)	(0.00071)	(0.00358)	(0.01387)
	South	-1.08396	0.04292	-0.03962	-0.31319	-0.16920
		(0.10559)	(0.00097)	(0.00022)	(0.00463)	(0.00454)
	Nation	-0.31683	0.05414	-0.08806	-0.22758	-0.17297
		(0.37325)	(0.01609)	(0.07412)	(0.05136)	(0.15121)
Distance						
Ave	Center	-0.50703	-0.97248	-2.72214	-0.44127	-0.24175
		(0.13905)	(0.26182)	(0.74303)	(0.12444)	(0.05999)
	North	-0.61745	-1.49419	-0.80775	-0.68684	-0.34899
		(0.18744)	(0.47219)	(0.25664)	(0.23008)	(0.10691)
	Northeast	-0.45027	-1.14242	-1.37055	-1.08699	-3.19379
		(0.07794)	(0.20922)	(0.24466)	(0.20428)	(0.61378)
	South	-9.15092	-1.93266	-1.88595	-2.17051	-1.75567
		(2.29882)	(0.36061)	(0.38024)	(0.48376)	(0.39765)
	Nation	-2.10983	-1.30854	-1.80199	-0.97617	-1.28263
		(3.50412)	(0.47971)	(0.89641)	(0.67422)	(1.28907)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province.

Table 7-6 The Direct Elasticities from Model 3 of Group 2 for the Shares of Food and Housing Expenses

		2002	2004	2006	2007	2011
		Direct Elasticity[a]				
Food Expense Share						
Ave	Center	-0.05782	-0.52085	2.72065	-1.82661	-0.58554
		(0.01025)	(0.11178)	(0.52198)	(0.44863)	(0.10872)
	North	-0.03529	-0.41239	0.42030	-1.38458	-0.43967
		(0.00699)	(0.08385)	(0.08449)	(0.44658)	(0.07910)
	Northeast	-0.03331	-0.34402	0.80971	-2.46118	-4.29851
		(0.00619)	(0.09546)	(0.09798)	(0.45866)	(0.53641)
	South	-0.36351	-0.36264	0.58548	-2.47180	-1.26053
		(0.06499)	(0.07064)	(0.12227)	(0.53612)	(0.35418)
	Nation	-0.10297	-0.42324	1.33504	-2.00523	-1.60549
		(0.12819)	(0.11967)	(1.06172)	(0.63374)	(1.61996)
Housing Expense Share						
Ave	Center	-1.63096	-0.26692	-0.39026	1.50787	0.24932
		(0.30629)	(0.04747)	(0.07317)	(0.28430)	(0.04610)
	North	-0.91802	-0.18937	-0.06376	1.22615	0.16659
		(0.15303)	(0.02180)	(0.01623)	(0.26171)	(0.03702)
	Northeast	-0.78263	-0.15456	-0.10685	1.73557	1.47218
		(0.16417)	(0.02170)	(0.01384)	(0.26805)	(0.24339)
	South	-8.73954	-0.14024	-0.08017	1.84208	0.46547
		(1.93301)	(0.03134)	(0.02190)	(0.50274)	(0.14435)
	Nation	-2.56888	-0.19815	-0.18925	1.56334	0.57635
		(3.08693)	(0.06245)	(0.15325)	(0.38918)	(0.54732)

Note: Standard errors in parentheses. [a] The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in food or housing expense shares of that province.

Table 7-7 The Cross Elasticities from Model 1 of Group 2 for Wages, Employment Rates, and Distances

		2002		2004		2005		2006		2007		2008		2011		2012	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Wage																	
Ave	Center	-0.03848	0.00554	-0.57505	-0.04656	-0.06207	0.01607	0.27169	0.00674	0.01871	0.00540	-0.32466	-0.01839	0.04839	0.00980	-0.12973	-0.00363
		(0.00454)	(0.00065)	(0.15615)	(0.01264)	(0.00441)	(0.00114)	(0.08957)	(0.00222)	(0.00277)	(0.00080)	(0.12099)	(0.00685)	(0.00811)	(0.00164)	(0.03525)	(0.00099)
	North	-0.07034	0.01936	0.23616	-0.26323	-0.14388	0.09384	0.04895	0.07904	-0.01827	0.04207	-0.25088	-0.14591	-0.08863	0.03450	-0.16980	-0.04981
		(0.01488)	(0.00410)	(0.08118)	(0.09048)	(0.01916)	(0.01250)	(0.01216)	(0.01964)	(0.00208)	(0.00478)	(0.14231)	(0.08277)	(0.01221)	(0.00475)	(0.10537)	(0.03091)
	Northeast	0.00263	0.09207	-0.29350	-0.94860	-0.01342	0.22380	0.10072	0.04962	-0.02225	0.02586	-0.47853	-0.16212	0.00479	0.08571	-0.60585	-0.11655
		(0.00026)	(0.00902)	(0.09599)	(0.31026)	(0.00103)	(0.01717)	(0.03398)	(0.01674)	(0.00193)	(0.00225)	(0.24366)	(0.08255)	(0.00057)	(0.01019)	(0.60287)	(0.11598)
	South	0.13497	0.00475	0.55228	-0.02460	-0.28379	0.01888	0.06125	0.01263	0.62859	0.01354	0.14668	-0.02051	0.16987	0.05634	0.05096	-0.01643
		(0.18203)	(0.00640)	(0.23926)	(0.01066)	(0.02842)	(0.00189)	(0.02447)	(0.00505)	(1.59490)	(0.03435)	(0.04805)	(0.00672)	(0.10107)	(0.03352)	(0.01467)	(0.00473)
	Nation	-0.00338	0.03012	-0.11554	-0.31649	-0.10905	0.08592	0.14036	0.03471	0.11255	0.02021	-0.25980	-0.08324	0.02922	0.04287	-0.22444	-0.04455
		(0.10403)	(0.03686)	(0.46279)	(0.40982)	(0.09634)	(0.08641)	(0.11192)	(0.03193)	(0.70863)	(0.02029)	(0.26132)	(0.08820)	(0.09457)	(0.03346)	(0.38059)	(0.07405)
With respect to Employment																	
Ave	Center	-0.00729	0.00105	-0.00174	-0.00014	-0.00157	0.00041	0.00451	0.00011	0.00678	0.00196	0.00394	0.00022	0.00642	0.00130	0.00410	0.00011
		(0.00089)	(0.00013)	(0.00047)	(0.00004)	(0.00011)	(0.00003)	(0.00147)	(0.00004)	(0.00101)	(0.00029)	(0.00147)	(0.00008)	(0.00107)	(0.00022)	(0.00110)	(0.00003)
	North	-0.01314	0.00362	0.00072	-0.00080	-0.00345	0.00225	0.00078	0.00126	-0.00653	0.01504	0.00301	0.00175	-0.01170	0.00456	0.00519	0.00152
		(0.00273)	(0.00075)	(0.00025)	(0.00028)	(0.00045)	(0.00029)	(0.00019)	(0.00031)	(0.00078)	(0.00179)	(0.00171)	(0.00099)	(0.00161)	(0.00063)	(0.00317)	(0.00093)
	Northeast	0.00049	0.01729	-0.00089	-0.00287	-0.00033	0.00554	0.00161	0.00079	-0.00770	0.00895	0.00571	0.00193	0.00061	0.01099	0.01843	0.00355
		(0.00005)	(0.00164)	(0.00028)	(0.00091)	(0.00003)	(0.00051)	(0.00059)	(0.00029)	(0.00067)	(0.00078)	(0.00297)	(0.00101)	(0.00007)	(0.00126)	(0.01824)	(0.00351)
	South	0.02566	0.00090	0.00167	-0.00007	-0.00731	0.00049	0.00102	0.00021	0.23052	0.00496	-0.00178	0.00025	0.02250	0.00746	-0.00160	0.00051
		(0.03463)	(0.00122)	(0.00073)	(0.00003)	(0.00072)	(0.00005)	(0.00040)	(0.00008)	(0.58548)	(0.01261)	(0.00059)	(0.00008)	(0.01344)	(0.00446)	(0.00046)	(0.00015)
	Nation	-0.00058	0.00566	-0.00035	-0.00096	-0.00274	0.00212	0.00231	0.00056	0.04140	0.00718	0.00312	0.00100	0.00388	0.00559	0.00688	0.00136
		(0.01975)	(0.00692)	(0.00140)	(0.00124)	(0.00247)	(0.00213)	(0.00186)	(0.00051)	(0.26008)	(0.00732)	(0.00315)	(0.00106)	(0.01253)	(0.00431)	(0.01153)	(0.00224)
With respect to Distance																	
Ave	Center	-0.01511	0.00218	0.01938	0.00157	-0.00535	0.00138	0.04622	0.00115	0.00553	0.00159	0.04270	0.00242	0.00808	0.00164	0.02092	0.00059
		(0.00207)	(0.00030)	(0.00153)	(0.00012)	(0.00083)	(0.00021)	(0.00662)	(0.00016)	(0.00058)	(0.00017)	(0.00942)	(0.00053)	(0.00045)	(0.00009)	(0.00159)	(0.00004)
	North	-0.05968	0.01643	-0.01779	0.01983	-0.02512	0.01638	0.01825	0.02947	-0.01244	0.02863	0.05797	0.03371	-0.03444	0.01341	0.05231	0.01534
		(0.00648)	(0.00178)	(0.00115)	(0.00128)	(0.00409)	(0.00267)	(0.00131)	(0.00212)	(0.00266)	(0.00613)	(0.01926)	(0.01120)	(0.00583)	(0.00227)	(0.01823)	(0.00535)
	Northeast	0.00240	0.08400	0.02427	0.07845	-0.00250	0.04175	0.03928	0.01935	-0.01581	0.01837	0.13173	0.04463	0.00185	0.03306	0.20477	0.03939
		(0.00021)	(0.00722)	(0.00248)	(0.00801)	(0.00025)	(0.00417)	(0.00564)	(0.00278)	(0.00164)	(0.00191)	(0.04418)	(0.01497)	(0.00015)	(0.00262)	(0.16092)	(0.03096)
	South	0.14797	0.00520	-0.06418	0.00286	-0.07187	0.00478	0.03510	0.00724	0.44544	0.00959	-0.05512	0.00771	0.08428	0.02795	-0.02626	0.00847
		(0.15317)	(0.00539)	(0.01218)	(0.00054)	(0.00785)	(0.00052)	(0.00545)	(0.00112)	(1.03393)	(0.02227)	(0.00583)	(0.00082)	(0.02794)	(0.00927)	(0.00152)	(0.00049)
	Nation	0.00934	0.02638	-0.00310	0.02511	-0.02131	0.01546	0.03618	0.01316	0.07721	0.01331	0.05035	0.02095	0.01105	0.01697	0.06521	0.01504
		(0.09468)	(0.03418)	(0.03374)	(0.03205)	(0.02594)	(0.01646)	(0.01175)	(0.01139)	(0.46519)	(0.01431)	(0.06611)	(0.02029)	(0.04046)	(0.01379)	(0.11619)	(0.02161)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

Table 7-8 The Cross Elasticities from Model 3 of Group 2 for Wages, Employment Rates, and Distances

		2002		2004		2006		2007		2011	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Wage											
Ave	Center	-0.02376	0.00406	-0.14867	-0.04849	0.56218	0.00558	0.00009	0.00010	0.00939	0.01079
		(0.00857)	(0.00147)	(0.06083)	(0.01984)	(0.33560)	(0.00333)	(0.00005)	(0.00005)	(0.00225)	(0.00259)
	North	-0.05621	0.01540	0.08967	-0.25749	0.05229	0.08990	0.00012	0.00055	-0.06185	0.03112
		(0.01475)	(0.00404)	(0.03648)	(0.10477)	(0.01091)	(0.01875)	(0.00006)	(0.00027)	(0.00876)	(0.00441)
	Northeast	-0.00200	0.06815	-0.35179	-0.88723	0.10701	0.05802	0.00043	0.00042	1.14332	0.10753
		(0.00046)	(0.01572)	(0.11544)	(0.29115)	(0.03298)	(0.01788)	(0.00024)	(0.00023)	(0.79160)	(0.07445)
	South	0.26722	0.00352	0.62537	-0.02490	0.06244	0.01359	0.00073	0.00015	0.45660	0.07919
		(0.50145)	(0.00661)	(0.29174)	(0.01162)	(0.02022)	(0.00440)	(0.00049)	(0.00010)	(0.25433)	(0.04411)
	Nation	0.02802	0.02252	-0.00355	-0.30058	0.24227	0.03903	0.00030	0.00029	0.35932	0.05212
		(0.23896)	(0.02821)	(0.36510)	(0.38297)	(0.30369)	(0.03668)	(0.00035)	(0.00026)	(0.63385)	(0.05728)
With respect to Employment											
Ave	Center	-0.00502	0.00086	-0.00044	-0.00014	0.00636	0.00006	0.00094	0.00104	0.00018	0.00021
		(0.00181)	(0.00031)	(0.00018)	(0.00006)	(0.00381)	(0.00004)	(0.00051)	(0.00057)	(0.00004)	(0.00005)
	North	-0.01171	0.00321	0.00027	-0.00077	0.00057	0.00097	0.00131	0.00587	-0.00119	0.00060
		(0.00304)	(0.00083)	(0.00011)	(0.00031)	(0.00012)	(0.00020)	(0.00064)	(0.00287)	(0.00017)	(0.00009)
	Northeast	-0.00042	0.01428	-0.00105	-0.00264	0.00116	0.00063	0.00451	0.00433	0.02153	0.00202
		(0.00010)	(0.00326)	(0.00033)	(0.00084)	(0.00040)	(0.00021)	(0.00254)	(0.00244)	(0.01513)	(0.00142)
	South	0.05670	0.00075	0.00185	-0.00007	0.00071	0.00015	0.00796	0.00161	0.00884	0.00153
		(0.10652)	(0.00140)	(0.00087)	(0.00003)	(0.00022)	(0.00005)	(0.00548)	(0.00111)	(0.00494)	(0.00086)
	Nation	0.00600	0.00472	-0.00001	-0.00089	0.00272	0.00043	0.00321	0.00305	0.00681	0.00099
		(0.05073)	(0.00590)	(0.00108)	(0.00113)	(0.00345)	(0.00040)	(0.00376)	(0.00274)	(0.01202)	(0.00109)
With respect to Distance											
Ave	Center	-0.01167	0.00200	0.00526	0.00172	0.08441	0.00084	0.00181	0.00201	0.00057	0.00066
		(0.00395)	(0.00068)	(0.00143)	(0.00047)	(0.04742)	(0.00047)	(0.00119)	(0.00133)	(0.00015)	(0.00017)
	North	-0.06048	0.01657	-0.00705	0.02024	0.01733	0.02980	0.00510	0.02291	-0.00867	0.00436
		(0.01262)	(0.00346)	(0.00144)	(0.00414)	(0.00222)	(0.00381)	(0.00149)	(0.00671)	(0.00173)	(0.00087)
	Northeast	-0.00228	0.07757	0.03094	0.07803	0.03678	0.01994	0.01972	0.01893	0.15491	0.01457
		(0.00036)	(0.01240)	(0.00501)	(0.01263)	(0.00493)	(0.00267)	(0.00842)	(0.00808)	(0.10203)	(0.00960)
	South	0.37537	0.00494	-0.07674	0.00306	0.03186	0.00693	0.04942	0.01002	0.08251	0.01431
		(0.64486)	(0.00849)	(0.02261)	(0.00090)	(0.00304)	(0.00066)	(0.02309)	(0.00468)	(0.03399)	(0.00589)
	Nation	0.05106	0.02469	-0.00618	0.02518	0.04782	0.01321	0.01579	0.01239	0.05218	0.00748
		(0.31090)	(0.03204)	(0.03768)	(0.03221)	(0.03888)	(0.01180)	(0.02047)	(0.01020)	(0.08548)	(0.00825)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in food and housing expense shares of another province.

Table 7-9 The Cross Elasticities from Model 3 of Group 2 for the Shares of Food and Housing Expenses

		2002		2004		2006		2007		2011	
		Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk	Elk	Esk
With respect to Food Expense Share											
Ave	Center	-0.00135	0.00023	0.00291	0.00095	-0.09816	-0.00097	0.00688	0.00765	0.00139	0.00159
		(0.00044)	(0.00007)	(0.00093)	(0.00030)	(0.07379)	(0.00073)	(0.00292)	(0.00325)	(0.00027)	(0.00032)
	North	-0.00352	0.00096	-0.00213	0.00613	-0.00943	-0.01622	0.01039	0.04668	-0.01108	0.00558
		(0.00065)	(0.00018)	(0.00091)	(0.00262)	(0.00215)	(0.00370)	(0.00316)	(0.01418)	(0.00098)	(0.00049)
	Northeast	-0.00017	0.00574	0.00954	0.02405	-0.02277	-0.01235	0.04501	0.04321	0.20866	0.01963
		(0.00003)	(0.00094)	(0.00312)	(0.00786)	(0.00760)	(0.00412)	(0.02022)	(0.01941)	(0.13211)	(0.01243)
	South	0.01700	0.00022	-0.01501	0.00060	-0.01023	-0.00223	0.05732	0.01162	0.05926	0.01028
		(0.03028)	(0.00040)	(0.00699)	(0.00028)	(0.00291)	(0.00063)	(0.03369)	(0.00683)	(0.02983)	(0.00517)
	Nation	0.00184	0.00177	0.00014	0.00782	-0.04327	-0.00746	0.02649	0.02600	0.06108	0.00859
		(0.01460)	(0.00238)	(0.00896)	(0.01048)	(0.05870)	(0.00710)	(0.02750)	(0.02173)	(0.11080)	(0.00960)
With respect to Housing Expense Share											
Ave	Center	-0.03859	0.00660	0.00149	0.00049	0.01378	0.00014	-0.00656	-0.00730	-0.00060	-0.00069
		(0.01481)	(0.00253)	(0.00046)	(0.00015)	(0.00964)	(0.00010)	(0.00465)	(0.00518)	(0.00014)	(0.00017)
	North	-0.09237	0.02531	-0.00099	0.00284	0.00142	0.00244	-0.01026	-0.04608	0.00419	-0.00211
		(0.01820)	(0.00499)	(0.00039)	(0.00112)	(0.00030)	(0.00052)	(0.00498)	(0.02238)	(0.00051)	(0.00026)
	Northeast	-0.00395	0.13440	0.00434	0.01094	0.00302	0.00164	-0.03461	-0.03323	-0.07139	-0.00671
		(0.00063)	(0.02155)	(0.00130)	(0.00329)	(0.00104)	(0.00057)	(0.02139)	(0.02054)	(0.04833)	(0.00455)
	South	0.44207	0.00582	-0.00577	0.00023	0.00140	0.00030	-0.04629	-0.00939	-0.02156	-0.00374
		(0.83504)	(0.01100)	(0.00276)	(0.00011)	(0.00045)	(0.00010)	(0.03163)	(0.00641)	(0.01022)	(0.00177)
	Nation	0.04659	0.04259	0.00031	0.00358	0.00604	0.00106	-0.02172	-0.02284	-0.02109	-0.00307
		(0.39717)	(0.05517)	(0.00370)	(0.00470)	(0.00795)	(0.00103)	(0.02367)	(0.02217)	(0.03886)	(0.00334)

Note: Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

7.2 The Determinants of Labor Migration for Those Moving to Create Their Own Business

The third group of migrants was workers who moved to a province in order to create their own businesses. This group had the smallest sample size compared to group 1 and 2 as well as the individual data for this group were available in 2011 only; however, the results of this group served as a good beginning step to clarify the effects of economic factors on labor migration for different purposes. Workers, who wanted to create a business, chose a destination in favor of their business. Accordingly, for the group 3 of migrants, the economic factors were expected to have the same effect on labor migration as for group 1 because these factors represented a current situation of local economy.

As shown in Table 7-10, the choice model at the first step had the highest value of dissimilarity parameters for the Center, North, and South. Nonetheless, the IIA property was significantly rejected by the Hausman's specification tests for all regions. The second step was to estimate the counterfactual wages as reported in Table 7-11. Female and married migrants gained lower wages than males and single migrants of around 0.27% and 0.1%, respectively. These results were consistent with the descriptive statistics. The relatively old migrants were likely to be paid lower after moving. The wage differentials according to educational attainments in this group differed from other groups. Even though the group 3 migrants with a university degree were still being paid higher than other educational levels in the same way as for the other groups, the elementary, lower secondary, upper secondary, and postsecondary levels caused the group 3 migrants to reach lower wages than the migrants with less than elementary levels. This phenomenon was suspicious and

difficult to clarify due to the limited availability of data. For business owners in the non-agricultural sector, they gained monthly wages slightly higher than the agricultural sector (0.4%). The estimation of counterfactual wages for this group also included the cubic polynomial function to explain repeated thinking, and the results reported that the coefficients associated with the first and third decisions were significantly more positive to serve better outcomes for migrants.

In this group of migrants, the forms of model 1 and 3 were estimated following the same rules as group 2, and the results are reported in Table 7-12. The Hausman's specification tests rejected the existence of IIA property for both models significantly. At the top level, there was no variation in the sign of coefficients, and all personal characteristics showed significant effects on the choice probability. Given the Center was the base category, females were less likely to move to the North, Northeast, and South. Married workers were more inclined to move to those regions as were the relatively young workers. Furthermore, workers tended to move to the North and Northeast to create their own businesses in the agricultural sector instead of building their businesses in the non-agricultural sector in the Center. However, between the Center and South, the South seemed to be the better choice when they tended to have a business in the non-agricultural sector. This was an unsurprising result because the famous tourist destinations are in the South. The coefficients of wages and employment rates showed a positive effect on the choice probability of model 1 that was the opposite of the group 1's result. As has been mentioned earlier, violent protests were concentrated in the downtown area of Bangkok; therefore, the other provinces were still giving workers a chance to build their own business and a better income. The positive effect of employment rates was also a good indicator for building a business. Nevertheless, after adding the food and housing expense shares on model 3, the role of employment rates became unfavorable to

migrants. Moreover, the food expense shares turned out to be a beneficial factor for this group of migrants which was the opposite of group 1 and 2's results. Remember that the food expense share was the average food expense divided by the average monthly wage of all employed workers including both migrants and non-migrants; therefore, this factor represented the purchasing power of consumers in favor of building a business. The housing expense shares, however, showed a negative impact on the choice probability under the condition of endogenous variable.

Table 7-13 and Table 7-14 provide the elasticities to interpret the coefficients at the bottom level of the choice model 1 and 3, respectively. The elasticities were computed for the single male migrants in the agricultural sector.[42] The elasticities of single male migrants are slightly different between agricultural and non-agricultural sectors, and thus, this section interprets the results for agricultural sector only. Appendix F.2 reports the elasticities for the single male migrants by province, factor, and years in both agricultural and non-agricultural sectors. According to the results of model 1, a 1.8% increase in the probability of migrating to a province responded to a 1% increase in wages of that province on average of all provinces; however, this response was incredibly large in the North (40%) and South (47%) on model 3. The direct elasticities of employment rates were 1.05 for model 1 and -0.3 for model 3. Given this, adding the food and housing expense shares enlarged the effect of wages on the probability of labor migration and altered the effect of employment rates from positive to negative directions. Distances had the largest direct elasticity (-2.64) on model 1, while the employment rate provided the smallest direct

[42] To compute the elasticities, the dummy variables for female, married, and non-agricultural sector were equal to zero.

elasticity for both model 1 and 3. On model 3, the average direct elasticities of all provinces were 5.24 and -7.51 in response to a change in food and housing expense shares, respectively.

According to the dissimilarity parameters, the complementariness among provinces was introduced in the Center, North, and South in model 1 and the Center and Northeast in model 3. It indicated that the food and housing expenses raised the degree of substitution among provinces in the North and South, and reduced this degree in the Northeast. For example, a 1% increase in wages of a province in the North raised the probability of migrating to another province in the same region by 0.016% in model 1; conversely, the same percentage change in wages reduced the probability of the same movement by 1.91% in model 3. On average for all provinces, the cross elasticities with respect to a change in wages were 0.03 and -0.04 for the same and different regions, respectively, in model 1 as well as -0.77 and -0.17 for the same and different regions, respectively, in model 3. The cross elasticities of 0.09 and -0.32 associated with a respective change in employment rates and distances in the South in model 1 were highest in the absolute effects for the same region. The highest cross elasticities in the absolute terms were also founded in the South in model 3 in response to a change in employment rates (0.04), distances (0.46), and housing expense shares (0.76) of a province in the same region. For a change in food expense shares, the cross elasticity of -0.58 was largest in the absolute term to account for a percentage change in probability of migration to a province in the North. The large effect of provincial attributes, except for food expense shares, indicated higher flexibility for moving within the region to create their own businesses in the Southern region. Overall, the effects of provincial attributes on the choice probability of this group were larger than for group 1.

Table 7-10 Estimates of The Nested Logit Model of Group 3 in The First Step

	2011
Bottom Level	
Employment Rate	1.94697
Distance	-0.00858
Top Level	
Center (base category)	
North	
Female	-0.54887
Married	2.02130
Age[a]	0.70365
Age squared[b]	-0.01125
Non-agricultural sector	-1.55826
Hausman Test (Chi-squared)	43.56
Northeast	
Female	-1.29740
Married	13.51245
Age[a]	0.37388
Age squared[b]	-0.00677
Non-agricultural sector	-3.04183
Hausman Test (Chi-squared)	27.13
South	
Female	-11.22103
Married	1.56883
Age[a]	0.56684
Age squared[b]	-0.01020
Non-agricultural sector	2.63307
Hausman Test (Chi-squared)	38.65
Dissimilarity Parameters	
Center tau	4.56880
North tau	2.56064
Northeast tau	0.84525
South tau	3.78223
Number of cases	51
Log-likelihood	-57506.9
LR test for IIA (Chi-squared)	3962.14

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that had no superscript have p-value < 0.01; [a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years;
[c] The number of cases without survey weight

Table 7-11 Wage Equations of Group 3

Dependent variable: *ln monthly wage*	
	2011
Female	-0.27072
	(0.000751)
Married	-0.09944
	(0.000804)
Age[a]	0.11544
	(0.000271)
Age squared[b]	-0.00142
	(0.000004)
None Education	5.74136
	(0.006887)
Less than Elementary	6.28611
	(0.00356)
Elementary	6.10698
	(0.00404)
Lower Secondary	6.14130
	(0.00397)
Upper Secondary	6.08440
	(0.00437)
Postseconadary	5.67425
	(0.00475)
University	6.79723
	(0.004559)
Non-ag Sector	0.40396
	(0.000806)
Pijk	3.22309
	(0.052535)
Pijk squared	-62.20556
	(1.060039)
Pijk cubed	238.95980
	(4.777607)
R-squared	0.9981
Observations[c]	3876

Note: The model wa estimated using the survey weight.; Standard errors in parentheses; [a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years; [c] The number of observations without survey weight.

Table 7-12 Estimates of The Nested Logit Model of Group 3 in The Third Step

	2011	
	Model 1	Model 3
Bottom Level		
Wage	0.00068	0.00275
Employment Rate	1.89504	-0.20520
Distance	-0.00823	-0.00346
Food Share	-	11.72105
Predicted Housing Share	-	-32.35583
Predicted Error of Housing Estimation	-	0.00071
Top Level		
Center (base category)		
North		
Female	-0.50593	-0.20382
Married	1.94661	1.73854
Age[a]	0.68308	0.95027
Age squared[b]	-0.01091	-0.01573
Non-agricultural sector	-1.47433	-0.58514
Hausman Test (Chi-squared)	40.12	56.62
Northeast		
Female	-1.34659	-1.60332
Married	13.01334	3.34611
Age[a]	0.38115	0.05222
Age squared[b]	-0.00688	-0.00195
Non-agricultural sector	-3.09278	-3.05511
Hausman Test (Chi-squared)	29.11	78.40
South		
Female	-10.71456	-4.44727
Married	1.55389	1.386233
Age[a]	0.57414	0.86432
Age squared[b]	-0.01026	-0.01466
Non-agricultural sector	2.62139	2.77331
Hausman Test (Chi-squared)	43.67	55.00
Dissimilarity Parameters		
Center tau	4.41430	4.59496
North tau	2.43911	0.30764
Northeast tau	0.76378	4.86345
South tau	3.45121	0.26071
Number of cases[c]	51	51
Log-likelihood	-57475.5	-52555.8
LR test for IIA (Chi-squared)	2974.4	11141.47

Note: The model was estimated using the survey weight.; * $p < 0.10$; ** $p < 0.05$; ^{NS} $p \geq 0.10$; The values that ha no superscript have p-value < 0.01; [a] In 2006, age was the group of migrants aged 15 to 24 years; [b] In 2006, age squared was the group of migrants aged 25 to 39 years; [c] The number of cases without survey weight.

Table 7-13 The Direct and Cross Elasticities from Model 1 of Group 3

		2011		
		Ekk	Elk	Esk
With respect to Wage				
Ave	Center	0.78147	0.03888	-0.05865
		(0.00585)	(0.00480)	(0.00723)
	North	1.34302	0.01612	-0.09653
		(0.01749)	(0.00984)	(0.05893)
	Northeast	4.11736	-0.05194	-0.000004
		(0.08220)	(0.08667)	(0.00001)
	South	1.08928	0.15645	-0.00673
		(0.07132)	(0.07317)	(0.00315)
	Nation	1.79776	0.03274	-0.04290
		(1.36538)	(0.08665)	(0.04699)
With respect to Employment				
Ave	Center	0.44832	0.02230	-0.03364
		(0.00297)	(0.00271)	(0.00409)
	North	0.77812	0.00932	-0.05579
		(0.00694)	(0.00566)	(0.03391)
	Northeast	2.40507	-0.03024	-0.000002
		(0.05764)	(0.05027)	(0.000004)
	South	0.63673	0.09159	-0.00394
		(0.04446)	(0.04334)	(0.00187)
	Nation	1.04598	0.01903	-0.02471
		(0.80028)	(0.05064)	(0.02708)
With respect to Distance				
Ave	Center	-0.45077	-0.02166	0.03267
		(0.13469)	(0.00332)	(0.00500)
	North	-1.95741	-0.01900	0.11374
		(0.67494)	(0.00555)	(0.03326)
	Northeast	-6.38012	0.06050	0.000005
		(1.29479)	(0.07748)	(0.00001)
	South	-2.43579	-0.32315	0.01391
		(0.36996)	(0.06987)	(0.00301)
	Nation	-2.63578	-0.05606	0.03918
		(2.41825)	(0.14063)	(0.04504)

Note: Ekk was the direct elasticity; Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

Table 7-14 The Direct and Cross Elasticities from Model 3 of Group 3

		2011		
		Ekk	Elk	Esk
With respect to Wage				
Ave	Center	2.95250	0.08045	-0.31663
		(0.02352)	(0.02340)	(0.09209)
	North	40.44234	-1.91071	-0.17616
		(4.78923)	(4.88054)	(0.44996)
	Northeast	3.09479	0.45876	-0.07731
		(0.09272)	(0.09073)	(0.01529)
	South	47.06657	-2.64757	-0.03047
		(7.04611)	(6.98214)	(0.08036)
	Nation	19.50023	-0.77289	-0.17266
		(20.44181)	(3.88844)	(0.24589)
With respect to Employment				
Ave	Center	-0.04556	-0.00124	0.00488
		(0.00038)	(0.00036)	(0.00142)
	North	-0.63034	0.02968	0.00274
		(0.07522)	(0.07578)	(0.00699)
	Northeast	-0.04862	-0.00721	0.00121
		(0.00159)	(0.00144)	(0.00024)
	South	-0.73950	0.04191	0.00048
		(0.10950)	(0.11071)	(0.00127)
	Nation	-0.30496	0.01213	0.00268
		(0.32016)	(0.06117)	(0.00381)
With respect to Distance				
Ave	Center	-0.17825	-0.00488	0.01921
		(0.05464)	(0.00204)	(0.00801)
	North	-6.24797	0.21531	0.01985
		(2.46977)	(0.54505)	(0.05025)
	Northeast	-0.49936	-0.07398	0.01247
		(0.09587)	(0.02082)	(0.00351)
	South	-11.29701	0.46444	0.00535
		(3.21514)	(1.18386)	(0.01363)
	Nation	-3.66442	0.11355	0.01512
		(4.71537)	(0.58780)	(0.02501)

		2011		
		Ekk	Elk	Esk
With respect to Food Expense Share				
Ave	Center	0.71737	0.01951	-0.07678
		(0.13247)	(0.00622)	(0.02450)
	North	12.05479	-0.57507	-0.05302
		(2.72313)	(1.58386)	(0.14602)
	Northeast	0.99361	0.14694	-0.02476
		(0.10208)	(0.03164)	(0.00533)
	South	11.10884	-0.57457	-0.00661
		(3.53701)	(1.56363)	(0.01800)
	Nation	5.23665	-0.19107	-0.04553
		(5.68979)	(1.03170)	(0.07453)
With respect to Housing Expense Share				
Ave	Center	-1.16153	-0.03058	0.12036
		(0.20830)	(0.00566)	(0.02229)
	North	-17.46785	0.74580	0.06876
		(4.81481)	(1.94898)	(0.17969)
	Northeast	-1.29104	-0.18747	0.03159
		(0.16103)	(0.01832)	(0.00309)
	South	-15.64632	0.76296	0.00878
		(5.43249)	(2.08142)	(0.02396)
	Nation	-7.50962	0.25004	0.06607
		(8.28761)	(1.31984)	(0.09535)

Note: Ekk was the direct elasticity; Elk was the cross elasticity in the same nest; Esk was the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of that province; The cross elasticity was a percentage change in the probability of choosing a province due to a 1% change in wage/employment rate/distance of another province.

Chapter 8: **Conclusion**

Summary and concluding comments

In our efforts to understand better Thai migration patterns, we recognize that both personal characteristics and economic factors have significant impacts on labor migration. However, the direction of migration varies based on the purpose of that migration. Most of the results indicate that female workers are less likely to move to the North and Northeast to look for a job, but they migrate back to the Northeast if their objective is to return to their hometowns. However, if the purpose of their migration decision is to own their own business, they tend to move to any region. Married workers are more inclined to return to their hometowns and create their own businesses, but in recent years they seem to be more mobile if the migration purpose is to look for a job. Relatively young workers are more mobile than older workers when looking for a job and to create their own business. Nonetheless, when younger workers return to their hometowns, the results are mixed about whether they are more or less mobile than older workers. As expected, workers are more likely to move to the North, Northeast, and South if they are to work in the agricultural sector, and to the Center to work in the non-agricultural sector when their purpose is to look for a job or create their own business. But working in a specific industry seems to be irrelevant when returning to their hometowns.

Labor market conditions, as represented by employment rates, is another significant factor on migration decisions, as has been often found in the literature (Fields, 1975; Gabriel et al., 1993; Gordon F. De Jong et al., 1996; Greenwood, 1969; Nivalainen, 2004). Workers who wish to look for a job or create their own business move to a destination when labor market conditions are

favorable to them. Distance from their origin location to their destination represents a cost, and as that distance increases, the probability of that migration falls. This is consistent with the results of Phan and Coxhead (2010), Schwartz (1973), and Sjaastad (1962). The shares of food and housing expenses serve as a good indicator of such living costs, and I find that an increase in these costs leads to a decrease in the migration probabilities, mostly for those who migrate to look for a job or create their own business.

Looking at the size of estimated coefficients (elasticities) we find that employment rates in destination regions have the smallest effect on migration decisions, regardless of the purpose of migration. The effect of living cost shares becomes larger than other factors in years of crisis. In fact, provinces become more 'substitute' choices in workers' viewpoints if they take these living costs into consideration. The levels of substitutability and complementarity across the explanatory variables are controlled by the 'dissimilarity' parameters, and shown by the signs of the cross elasticities. All provinces in different regions are substitutes, and the cross elasticities have the opposite signs to the direct elasticities. On the other hand, all provinces in a region with a dissimilarity parameter greater than one are complementary. In simple terms, if there is a favorable change in provincial attributes at an expected destination, workers will be more likely to move to a province in the same region as well. However, there may be unobservable characteristics that violate the similarity among provinces and regions. For example, the effect of long-standing political protests on the local economy may be unidentified by economic indicators, and moreover, some non-economic factors, such as a hometown bonding and a subjective preference, are unobservable and so not included in to the model.

Does the wage have an important role in labor migration?

The main conclusion from our empirical work is that the wage rate significantly affects workers' migration decisions, if they aim to find a new job or want to build a business at the chosen destination. The largest impact of the wage variable is for those workers who migrate to the Center region. As previously noted, this is the main industrial hub of Thailand that is attractive to workers, so a small change in provincial attributes will drive a large number of workers to in-migrate to or out-migrate from a province in this region. Taking an average coefficient value (on the wage rate) across all years, a 1% increase in the wage rate in a province leads to a 3% increase in the probability of moving to such a province and a 0.06% decrease in the probability of moving to other provinces for single male migrants wanting to find a new job. For migrants with this migration purpose, the effect of wages on their migration decision is generally larger than for other factors. However, the shares of food and housing expenses reveal larger effects than wages in years of crisis. A struggling economy in crisis times may result in slow growth, or a reduction of wages, and that may encourage workers to consider more closely the living costs at the destination.

For the case of workers returning to hometowns, the wage also has the largest effect on that decision, even though the effect is positive and significant only in times of crisis. Workers' hometowns potentially serve as more reliable sources of jobs with better incomes in a troubled economy. This leads to the conclusion that a 1% increase in workers' hometown wage rates raises the probability of single male migrants moving back to their hometowns by approximately 8.5%, when the nation is facing a crisis time. Looking at the results year by year, the year when major flooding occurred produced a substantially larger effect on the wage rate coefficient for migrants returning to hometowns, compared to those moving to a province to look for a job. But for the

purpose of creating a business, the impact of wages appears even larger after adding the food and housing expense shares, the uncertainty being due to limited data (few such migrants) in this situation.

Effect of agricultural and non-agricultural factors on labor migration

So far, we have taken wage rates as given. However, if we can assess some determinants of those wage rates, we might be able to suggest more underlying factors that are influencing migration rates and directions. We wish to test the effect of rice prices and agricultural and non-agricultural gross provincial products (GPP) on migration through the migrants' wage rates, considering only those looking for a job. Following the previously estimated choice model for migration, we first regress the estimated counterfactual wage rate of migrants in agricultural sector due to those factors (rice prices, the two measures of GPP, and the non-agricultural wage) to identify their relationship. For the second step, we compute the impact of those factors on labor migration through the wage changes they cause, using the wage coefficients from the first step.

A zero effect from the rice price on agricultural migrants' wage rate could be expected. The results show this, that rice prices do have an insignificant effect on migrants' wage rates in the agricultural sector in most years of study, for reasons outline above. Agricultural GPP would likely have some positive effect on the wage rates of those who move to agricultural sector jobs, due to the added demand that would give those migrants. The size of these effects, however, is generally very small. For example, for agricultural migrants, a 1% increase in agricultural GPP increases their wage rate by 0.003% in 2008.

In the second step, a 1% increase in rice prices creates a change in the probability of migrating to the agricultural sector equal to +0.43% for migrating to the same province, -0.009% for migrating to other provinces in the same region, and -0.005% for migrating to other provinces in different regions; however, these results were statistically insignificant. For a 1% increase in the agricultural GPP of a province, the probability of migrating to the agricultural sector of that province increases by 0.008%, to other provinces in the same region by -0.0002%, and to other provinces in different regions by -0.00006%. Agricultural GPP appears to have a minimal effect on these migration decisions, but rice prices appear to have virtually no migration effects, as expected.

Policy Changes

Some of these results may have resulted from particular government policies. In 2004, local entrepreneurs in all villages were subsidized in accordance with a government campaign called "One Million Baht One Village Fund". This campaign resulted in the high employment rate (99.04% on average of all provinces); hence, the negative effect of employment rates on migrants' decisions showed that migrants moved to a province with slightly low employment rates compared to their original provinces to avoid excess supply. But the subsidy positively affected the role of employment rates for those moving to their hometowns. The government's subsidy campaign distorted the labor market in favor of local workers only. On the other hand, an increase in non-agricultural GPP would be measuring an increase in local business activity, plausibly leading to an increase in migrants' wages for those looking for a job in both the agricultural and non-agricultural sectors. Turning to raising agricultural prices, a large subsidy in the form of the 'rice pledging' program in 2004 resulted in a zero effect of rice prices on migrants' wages in agricultural sector. Hence, it is possible to conclude that only landowners were benefiting from this policy.

Considering all these results, government policies did impact the migration decisions of workers, albeit with generally low elasticities. The subsidy that increased demand for labor at the village level encouraged workers to move to rural areas. Raising rice prices provided no of benefit to agricultural workers, leaving it still unattractive to migrating workers.

Final points

The methodology and results of this research show that awareness of 'choice similarity' is important in using location choice models. In indicator of 'similarity' regarding provincial geography and economics can be useful to divide provinces into groups. On another issue, years with unstable political situations in Thailand (e.g., coup years) yielded substantial changes in estimated parameters of the location choice models. This suggests the value of using 'normal' years in the collection and analysis of migration data to clarify otherwise ambiguous results.

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Appendices

Appendix A Provincial Codes

This appendix represents the provincial codes that are being used in this dissertation.

Code 1 – 26 are in the Central region.

Code 27 – 43 are in the Northern region.

Code 44 – 62 are in the Northeastern region.

Code 63 – 76 are in the Southern region.

Code	Province
1	Bangkok Metropolis
2	Samut Prakan
3	Nonthaburi
4	Pathum Thani
5	Phra Nakhon Si Ayutthaya
6	Ang Thong
7	Lop Buri
8	Sing Buri
9	Chai Nat
10	Saraburi
11	Chon Buri
12	Rayong
13	Chanthaburi

Code	Province
14	Trat
15	Chachoengsao
16	Prachin Buri
17	Nakhon Nayok
18	Sa Kaeo
19	Ratchaburi
20	Kanchanaburi
21	Suphan Buri
22	Nakhon Pathom
23	Samut Sakhon
24	Samut Songkhram
25	Phetchaburi
26	Prachuap Khiri Khan
27	Chiang Mai
28	Lamphun
29	Lampang
30	Uttaradit
31	Phrae
32	Nan
33	Phayao
34	Chiang Rai

Code	Province
35	Mae Hong Son
36	Nakhon Sawan
37	Uthai Thani
38	Kamphaeng Phet
39	Tak
40	Sukhothai
41	Phitsanulok
42	Phichit
43	Phetchabun
44	Nakhon Ratchasima
45	Buri Ram
46	Surin
47	Si Sa Ket
48	Ubon Ratchathani
49	Yasothon
50	Chaiyaphum
51	Am Nat Charoen
52	Nong Bua Lam Phu
53	Khon Kaen
54	Udon Thani
55	Loei

Code	Province
56	Nong Khai
57	Maha Sarakham
58	Roi Et
59	Kalasin
60	Sakon Nakhon
61	Nakhon Phanom
62	Mukdahan
63	Nakhon Si Thammarat
64	Krabi
65	Phangnga
66	Phuket
67	Surat Thani
68	Ranong
69	Chumphon
70	Songkhla
71	Satun
72	Trang
73	Phatthalung
74	Pattani
75	Yala
76	Narathiwat

Appendix B Additional Tables for Chapter 3

Table B.1 Distribution of In-migrants by Province in 2002

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	93959	-	13.96%	-	3.67%	-	44	1079	3797	0.16%	0.56%	0.21%	0.73%
2	36464	-	5.42%	-	8.30%	-	45	2002	5747	0.30%	0.85%	1.59%	4.58%
3	9032	-	1.34%	-	4.16%	-	46	1001	11884	0.15%	1.77%	1.00%	11.90%
4	11372	236	1.69%	0.04%	5.99%	0.12%	47	365	1432	0.05%	0.21%	0.36%	1.41%
5	5804	120	0.86%	0.02%	3.17%	0.07%	48	-	11991	-	1.78%	-	10.83%
6	700	33	0.10%	0.00%	1.22%	0.06%	49	46	39	0.01%	0.01%	0.20%	0.17%
7	13750	769	2.04%	0.11%	7.85%	0.44%	50	-	9511	-	1.41%	-	8.32%
8	90	-	0.01%	-	0.20%	-	51	309	341	0.05%	0.05%	1.17%	1.29%
9	625	4102	0.09%	0.61%	1.13%	7.45%	52	1460	4496	0.22%	0.67%	2.87%	8.83%
10	3722	-	0.55%	-	2.53%	-	53	1082	15805	0.16%	2.35%	0.41%	5.94%
11	8729	-	1.30%	-	2.91%	-	54	2018	20557	0.30%	3.05%	0.97%	9.90%
12	5042	140	0.75%	0.02%	3.81%	0.11%	55	-	7178	-	1.07%	-	9.37%
13	2344	-	0.35%	-	2.68%	-	56	268	5576	0.04%	0.83%	0.32%	6.69%
14	-	-	-	-	0.00%	-	57	3276	6620	0.49%	0.98%	2.76%	5.58%
15	5389	-	0.80%	-	4.09%	-	58	-	14310	-	2.13%	-	13.08%
16	633	29	0.09%	0.00%	0.69%	0.03%	59	364	2933	0.05%	0.44%	0.49%	3.94%
17	67	673	0.01%	0.10%	0.14%	1.45%	60	282	614	0.04%	0.09%	0.40%	0.87%
18	777	4311	0.12%	0.64%	0.74%	4.11%	61	-	2728	-	0.41%	-	5.98%
19	2148	1952	0.32%	0.29%	1.05%	0.95%	62	529	1139	0.08%	0.17%	2.02%	4.35%
20	535	974	0.08%	0.14%	0.37%	0.68%	63	2240	8243	0.33%	1.22%	0.81%	2.97%
21	2939	-	0.44%	-	2.37%	-	64	675	310	0.10%	0.05%	1.27%	0.58%
22	15722	1312	2.34%	0.19%	7.01%	0.59%	65	835	564	0.12%	0.08%	1.51%	1.02%
23	22021	-	3.27%	-	11.94%	-	66	1413	-	0.21%	-	2.77%	-
24	936	-	0.14%	-	2.13%	-	67	2443	291	0.36%	0.04%	2.06%	0.25%
25	2979	632	0.44%	0.09%	3.90%	0.83%	68	-	57	-	0.01%	-	0.26%
26	459	233	0.07%	0.03%	0.43%	0.22%	69	181	117	0.03%	0.02%	0.36%	0.23%
27	5561	3144	0.83%	0.47%	1.65%	0.93%	70	3111	-	0.46%	-	1.44%	-
28	862	1101	0.13%	0.16%	0.83%	1.06%	71	933	-	0.14%	-	2.28%	-
29	185	1421	0.03%	0.21%	0.14%	1.10%	72	1691	964	0.25%	0.14%	1.30%	0.74%
30	-	601	-	0.09%	-	1.41%	73	588	4887	0.09%	0.73%	0.75%	6.26%
31	704	4806	0.10%	0.71%	0.83%	5.67%	74	226	147	0.03%	0.02%	0.23%	0.15%
32	23	7949	0.00%	1.18%	0.05%	16.42%	75	700	-	0.10%	-	1.06%	-
33	885	945	0.13%	0.14%	1.16%	1.24%	76	855	464	0.13%	0.07%	0.54%	0.30%
34	741	4046	0.11%	0.60%	0.41%	2.23%							
35	64	-	0.01%	-	0.54%	-							
36	692	1774	0.10%	0.26%	0.53%	1.37%							
37	-	778	-	0.12%	-	2.79%							
38	832	7733	0.12%	1.15%	0.90%	8.41%							
39	754	359	0.11%	0.05%	1.40%	0.67%							
40	100	4628	0.01%	0.69%	0.14%	6.34%							
41	1518	4210	0.23%	0.63%	1.42%	3.95%							
42	467	493	0.07%	0.07%	0.67%	0.71%							
43	713	2454	0.11%	0.36%	0.55%	1.88%							

Source: The Labor Force Survey (2002)

Table B.2 Distribution of In-migrants by Province in 2004

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	131988	589	13.08%	0.06%	5.04%	0.02%	44	2302	17440	0.23%	1.73%	0.38%	2.87%
2	61023	-	6.05%	-	13.06%	-	45	3763	1958	0.37%	0.19%	1.82%	0.95%
3	13980	-	1.39%	-	5.74%	-	46	-	17343	-	1.72%	-	9.88%
4	22534	139	2.23%	0.01%	10.74%	0.07%	47	1102	12775	0.11%	1.27%	0.90%	10.44%
5	6419	342	0.64%	0.03%	3.02%	0.16%	48	-	16661	-	1.65%	-	11.86%
6	700	652	0.07%	0.06%	1.10%	1.02%	49	264	3697	0.03%	0.37%	0.41%	5.69%
7	4772	1127	0.47%	0.11%	2.16%	0.51%	50	-	27521	-	2.73%	-	18.34%
8	437	529	0.04%	0.05%	0.87%	1.05%	51	35	3263	0.00%	0.32%	0.09%	8.59%
9	5926	3632	0.59%	0.36%	7.40%	4.54%	52	1161	7262	0.12%	0.72%	2.05%	12.83%
10	9170	-	0.91%	-	5.31%	-	53	5163	15246	0.51%	1.51%	1.65%	4.86%
11	23113	381	2.29%	0.04%	6.83%	0.11%	54	1334	1912	0.13%	0.19%	0.63%	0.91%
12	9699	383	0.96%	0.04%	5.60%	0.22%	55	226	2164	0.02%	0.21%	0.30%	2.86%
13	3876	-	0.38%	-	3.59%	-	56	2155	15305	0.21%	1.52%	1.70%	12.09%
14	3261	73	0.32%	0.01%	6.94%	0.16%	57	4323	4873	0.43%	0.48%	3.91%	4.41%
15	13419	102	1.33%	0.01%	7.68%	0.06%	58	181	11833	0.02%	1.17%	0.13%	8.32%
16	3538	1508	0.35%	0.15%	2.66%	1.13%	59	655	3510	0.06%	0.35%	0.68%	3.63%
17	337	761	0.03%	0.08%	0.66%	1.48%	60	218	1630	0.02%	0.16%	0.23%	1.69%
18	1138	206	0.11%	0.02%	1.18%	0.21%	61	-	5161	-	0.51%	-	6.55%
19	6907	1613	0.68%	0.16%	2.95%	0.69%	62	181	3803	0.02%	0.38%	0.42%	8.86%
20	2198	159	0.22%	0.02%	1.43%	0.10%	63	1123	9680	0.11%	0.96%	0.38%	3.27%
21	2766	92	0.27%	0.01%	1.54%	0.05%	64	2511	647	0.25%	0.06%	4.30%	1.11%
22	12256	636	1.21%	0.06%	4.42%	0.23%	65	1723	838	0.17%	0.08%	4.01%	1.95%
23	22892	-	2.27%	-	12.38%	-	66	2803	374	0.28%	0.04%	4.40%	0.59%
24	349	86	0.03%	0.01%	0.67%	0.17%	67	11416	475	1.13%	0.05%	9.38%	0.39%
25	278	552	0.03%	0.05%	0.28%	0.55%	68	664	-	0.07%	-	2.69%	-
26	3115	774	0.31%	0.08%	3.19%	0.79%	69	1426	535	0.14%	0.05%	2.36%	0.89%
27	10263	5144	1.02%	0.51%	2.56%	1.28%	70	7814	552	0.77%	0.05%	2.96%	0.21%
28	3185	893	0.32%	0.09%	2.51%	0.70%	71	467	784	0.05%	0.08%	1.01%	1.69%
29	1054	1059	0.10%	0.10%	0.60%	0.60%	72	1049	1542	0.10%	0.15%	0.69%	1.02%
30	445	1811	0.04%	0.18%	0.80%	3.24%	73	1843	1311	0.18%	0.13%	2.35%	1.67%
31	1502	10571	0.15%	1.05%	1.04%	7.33%	74	1743	71	0.17%	0.01%	1.76%	0.07%
32	309	3223	0.03%	0.32%	0.93%	9.72%	75	1013	-	0.10%	-	1.36%	-
33	101	255	0.01%	0.03%	0.15%	0.39%	76	369	-	0.04%	-	0.22%	-
34	4386	4734	0.43%	0.47%	1.84%	1.99%							
35	32	309	0.00%	0.03%	0.19%	1.86%							
36	3364	5703	0.33%	0.57%	1.52%	2.58%							
37	69	542	0.01%	0.05%	0.16%	1.22%							
38	138	8153	0.01%	0.81%	0.14%	8.02%							
39	578	3132	0.06%	0.31%	0.67%	3.61%							
40	657	3626	0.07%	0.36%	0.90%	4.98%							
41	338	3986	0.03%	0.40%	0.23%	2.76%							
42	145	8080	0.01%	0.80%	0.14%	7.73%							
43	2023	2045	0.20%	0.20%	1.32%	1.34%							

Source: The Labor Force Survey (2004)

Table B.3 Distribution of In-migrants by Province in 2005

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	53378	-	8.18%	-	2.33%	-	44	2145	5314	0.33%	0.81%	0.35%	0.87%
2	29050	-	4.45%	-	4.95%	-	45	679	11176	0.10%	1.71%	0.42%	6.93%
3	6165	-	0.95%	-	1.80%	-	46	6512	16483	1.00%	2.53%	3.62%	9.17%
4	16267	-	2.49%	-	6.42%	-	47	-	18510	-	2.84%	-	13.29%
5	6616	278	1.01%	0.04%	3.13%	0.13%	48	279	10144	0.04%	1.56%	0.21%	7.57%
6	904	495	0.14%	0.08%	1.29%	0.71%	49	858	120	0.13%	0.02%	1.77%	0.25%
7	1412	963	0.22%	0.15%	0.71%	0.48%	50	413	11897	0.06%	1.82%	0.29%	8.29%
8	909	431	0.14%	0.07%	1.52%	0.72%	51	765	1213	0.12%	0.19%	1.20%	1.90%
9	2819	2906	0.43%	0.45%	3.91%	4.03%	52	1155	3081	0.18%	0.47%	1.47%	3.91%
10	3432	1433	0.53%	0.22%	1.66%	0.69%	53	4490	5251	0.69%	0.81%	1.88%	2.20%
11	23812	1620	3.65%	0.25%	6.20%	0.42%	54	3067	6431	0.47%	0.99%	1.61%	3.38%
12	8163	799	1.25%	0.12%	4.66%	0.46%	55	684	4211	0.10%	0.65%	1.15%	7.08%
13	2027	539	0.31%	0.08%	1.68%	0.45%	56	1073	8133	0.16%	1.25%	0.98%	7.46%
14	642	275	0.10%	0.04%	1.15%	0.49%	57	247	2616	0.04%	0.40%	0.27%	2.90%
15	3090	409	0.47%	0.06%	1.59%	0.21%	58	-	8338	-	1.28%	-	6.29%
16	1576	764	0.24%	0.12%	1.25%	0.61%	59	1662	2005	0.25%	0.31%	1.68%	2.02%
17	17	199	0.00%	0.03%	0.03%	0.40%	60	649	3984	0.10%	0.61%	0.67%	4.14%
18	587	2031	0.09%	0.31%	0.49%	1.69%	61	165	6093	0.03%	0.93%	0.25%	9.12%
19	4727	1405	0.72%	0.22%	1.97%	0.59%	62	162	3023	0.02%	0.46%	0.39%	7.27%
20	481	2253	0.07%	0.35%	0.30%	1.40%	63	1481	2910	0.23%	0.45%	0.55%	1.08%
21	5167	550	0.79%	0.08%	3.32%	0.35%	64	1110	431	0.17%	0.07%	1.64%	0.64%
22	14113	157	2.16%	0.02%	4.61%	0.05%	65	843	1433	0.13%	0.22%	1.86%	3.16%
23	11321	-	1.74%	-	5.12%	-	66	4203	-	0.64%	-	5.06%	-
24	544	150	0.08%	0.02%	1.13%	0.31%	67	5018	545	0.77%	0.08%	2.84%	0.31%
25	186	110	0.03%	0.02%	0.20%	0.12%	68	477	27	0.07%	0.00%	1.28%	0.07%
26	1624	320	0.25%	0.05%	1.63%	0.32%	69	564	589	0.09%	0.09%	0.82%	0.86%
27	1335	279	0.20%	0.04%	0.34%	0.07%	70	917	1286	0.14%	0.20%	0.34%	0.47%
28	2068	1258	0.32%	0.19%	2.27%	1.38%	71	251	206	0.04%	0.03%	0.58%	0.48%
29	629	1825	0.10%	0.28%	0.42%	1.23%	72	356	1155	0.05%	0.18%	0.24%	0.78%
30	511	2983	0.08%	0.46%	0.94%	5.51%	73	1064	4581	0.16%	0.70%	1.22%	5.26%
31	1665	1570	0.26%	0.24%	1.66%	1.56%	74	-	726	-	0.11%	-	0.75%
32	1169	2939	0.18%	0.45%	2.12%	5.33%	75	1800	112	0.28%	0.02%	2.59%	0.16%
33	-	2850	-	0.44%	-	4.06%	76	79	1423	0.01%	0.22%	0.04%	0.73%
34	996	10555	0.15%	1.62%	0.43%	4.53%							
35	-	-	-	-	-	-							
36	681	-	0.10%	0.00%	0.41%	0.00%							
37	104	391	0.02%	0.06%	0.23%	0.85%							
38	1502	5570	0.23%	0.85%	1.28%	4.75%							
39	120	196	0.02%	0.03%	0.15%	0.25%							
40	76	4723	0.01%	0.72%	0.12%	7.38%							
41	-	5565	-	0.85%	-	4.31%							
42	799	1896	0.12%	0.29%	0.97%	2.31%							
43	4784	8835	0.73%	1.35%	2.90%	5.35%							

Source: The Labor Force Survey (2005)

Table B.4 Distribution of In-migrants by Province in 2006

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	49893	-	9.58%	-	2.20%	-	44	2633	14946	0.51%	2.87%	0.55%	3.14%
2	36543	-	7.02%	-	5.96%	-	45	2560	6576	0.49%	1.26%	1.33%	3.40%
3	3709	-	0.71%	-	1.01%	-	46	2502	6129	0.48%	1.18%	1.52%	3.72%
4	13303	600	2.55%	0.12%	4.77%	0.22%	47	-	-	-	-	-	-
5	1368	170	0.26%	0.03%	0.60%	0.08%	48	363	1577	0.07%	0.30%	0.26%	1.11%
6	614	201	0.12%	0.04%	0.88%	0.29%	49	72	243	0.01%	0.05%	0.16%	0.54%
7	58	-	0.01%	-	0.03%	-	50	73	6515	0.01%	1.25%	0.06%	5.80%
8	288	112	0.06%	0.02%	0.52%	0.20%	51	116	1803	0.02%	0.35%	0.14%	2.23%
9	-	2553	-	0.49%	-	4.24%	52	1353	5106	0.26%	0.98%	1.48%	5.58%
10	5031	-	0.97%	-	2.39%	-	53	556	4400	0.11%	0.84%	0.20%	1.57%
11	23033	377	4.42%	0.07%	6.20%	0.10%	54	-	810	-	0.16%	-	0.51%
12	6173	-	1.19%	-	3.42%	-	55	318	290	0.06%	0.06%	0.60%	0.55%
13	1041	-	0.20%	-	0.85%	-	56	5645	14876	1.08%	2.86%	4.60%	12.12%
14	332	-	0.06%	-	0.57%	-	57	101	231	0.02%	0.04%	0.11%	0.25%
15	7367	86	1.41%	0.02%	4.17%	0.05%	58	2649	3264	0.51%	0.63%	2.68%	3.30%
16	273	1383	0.05%	0.27%	0.22%	1.11%	59	189	588	0.04%	0.11%	0.25%	0.78%
17	-	1236	-	0.24%	-	2.11%	60	93	-	0.02%	-	0.12%	-
18	1679	561	0.32%	0.11%	1.30%	0.43%	61	83	4005	0.02%	0.77%	0.18%	8.92%
19	2906	1476	0.56%	0.28%	1.20%	0.61%	62	87	73	0.02%	0.01%	0.23%	0.19%
20	4345	-	0.83%	-	2.46%	-	63	2910	1822	0.56%	0.35%	0.99%	0.62%
21	36	123	0.01%	0.02%	0.02%	0.07%	64	2523	-	0.48%	-	3.88%	-
22	13074	-	2.51%	-	4.69%	-	65	781	88	0.15%	0.02%	1.71%	0.19%
23	17485	-	3.36%	-	6.89%	-	66	4210	252	0.81%	0.05%	4.44%	0.27%
24	316	233	0.06%	0.04%	0.70%	0.51%	67	5595	-	1.07%	-	2.93%	-
25	497	233	0.10%	0.04%	0.54%	0.25%	68	-	-	-	-	-	-
26	1747	363	0.34%	0.07%	1.55%	0.32%	69	1598	66	0.31%	0.01%	2.56%	0.11%
27	2874	1228	0.55%	0.24%	0.71%	0.30%	70	997	-	0.19%	-	0.36%	-
28	680	234	0.13%	0.04%	0.66%	0.23%	71	651	640	0.12%	0.12%	1.37%	1.35%
29	333	3157	0.06%	0.61%	0.22%	2.10%	72	2796	1902	0.54%	0.37%	1.78%	1.21%
30	290	1046	0.06%	0.20%	0.47%	1.70%	73	665	686	0.13%	0.13%	0.92%	0.95%
31	195	2529	0.04%	0.49%	0.21%	2.73%	74	822	-	0.16%	-	0.79%	-
32	32	1367	0.01%	0.26%	0.09%	4.02%	75	380	-	0.07%	-	0.58%	-
33	1308	137	0.25%	0.03%	1.65%	0.17%	76	129	1102	0.02%	0.21%	0.07%	0.57%
34	324	3838	0.06%	0.74%	0.14%	1.64%							
35	328	270	0.06%	0.05%	3.09%	2.55%							
36	5084	-	0.98%	-	3.43%	-							
37	81	646	0.02%	0.12%	0.20%	1.58%							
38	3007	5439	0.58%	1.04%	2.10%	3.81%							
39	298	141	0.06%	0.03%	0.44%	0.21%							
40	127	5645	0.02%	1.08%	0.17%	7.36%							
41	1375	1759	0.26%	0.34%	1.14%	1.45%							
42	953	495	0.18%	0.10%	1.39%	0.72%							
43	2334	6382	0.45%	1.23%	1.46%	4.01%							

Source: The Labor Force Survey (2006)

Table B.5 Distribution of In-migrants by Province in 2007

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	32481	-	6.65%	-	1.41%	-	44	1533	5266	0.31%	1.08%	0.31%	1.06%
2	30329	-	6.21%	-	4.81%	-	45	2333	12719	0.48%	2.60%	1.06%	5.80%
3	3035	723	0.62%	0.15%	0.78%	0.19%	46	3288	3774	0.67%	0.77%	2.03%	2.33%
4	7900	-	1.62%	-	2.73%	-	47	-	1738	-	0.36%	-	1.47%
5	3188	408	0.65%	0.08%	1.33%	0.17%	48	-	4688	-	0.96%	-	3.47%
6	322	567	0.07%	0.12%	0.42%	0.73%	49	-	1220	-	0.25%	-	2.99%
7	2051	876	0.42%	0.18%	1.22%	0.52%	50	-	5397	-	1.10%	-	4.11%
8	103	1105	0.02%	0.23%	0.17%	1.86%	51	199	1051	0.04%	0.22%	0.31%	1.62%
9	1287	453	0.26%	0.09%	1.69%	0.60%	52	950	3723	0.19%	0.76%	1.32%	5.18%
10	3889	1202	0.80%	0.25%	1.80%	79.88%	53	1925	1129	0.39%	0.23%	0.67%	0.39%
11	26026	-	5.33%	-	6.68%	-	54	509	2570	0.10%	0.53%	0.33%	1.65%
12	6938	278	1.42%	0.06%	3.87%	79.88%	55	962	2137	0.20%	0.44%	1.47%	3.27%
13	2131	667	0.44%	0.0013649	1.76%	79.88%	56	850	5503	0.17%	1.13%	0.90%	5.86%
14	268	1161	0.05%	0.24%	0.45%	79.88%	57	-	2420	-	0.50%	-	2.92%
15	3521	68	0.72%	0.01%	1.99%	0.04%	58	-	8630	-	1.77%	-	8.46%
16	647	883	0.13%	0.18%	0.56%	0.76%	59	138	730	0.03%	0.15%	0.20%	1.08%
17	47	1219	0.01%	0.25%	0.08%	2.07%	60	-	2416	-	0.49%	-	3.42%
18	3593	3837	0.74%	0.79%	2.70%	2.88%	61	212	704	0.04%	0.14%	0.59%	1.95%
19	638	2673	0.13%	0.55%	0.25%	1.05%	62	1629	908	0.33%	0.19%	3.84%	2.14%
20	798	1034	0.16%	0.21%	0.43%	0.56%	63	1345	4992	0.28%	1.02%	0.47%	1.76%
21	1962	65	0.40%	0.01%	1.23%	0.04%	64	1233	272	0.25%	0.06%	1.79%	79.88%
22	10041	-	2.05%	-	3.42%	-	65	62	315	0.01%	0.06%	0.13%	0.67%
23	16533	-	3.38%	-	6.56%	-	66	9043	122	1.85%	0.02%	9.20%	0.12%
24	76	-	0.02%	-	0.17%	-	67	5901	835	1.21%	0.17%	3.12%	0.44%
25	364	607	0.07%	0.12%	0.40%	0.66%	68	612	392	0.13%	0.08%	1.54%	0.99%
26	855	-	0.17%	-	0.74%	-	69	1119	-	0.23%	-	1.65%	-
27	865	1030	0.18%	0.21%	0.23%	0.27%	70	2816	-	0.58%	-	0.96%	-
28	510	617	0.10%	0.13%	0.48%	0.58%	71	539	228	0.11%	0.05%	1.08%	0.46%
29	272	1548	0.06%	0.32%	0.16%	0.93%	72	2027	75	0.41%	0.02%	1.38%	0.05%
30	-	847	-	0.17%	-	1.50%	73	159	134	0.03%	0.03%	0.19%	0.16%
31	641	4762	0.13%	0.97%	0.69%	5.10%	74	3324	295	0.68%	0.06%	3.33%	0.30%
32	35	1733	0.01%	0.35%	0.10%	4.93%	75	551	-	0.11%	-	0.82%	-
33	1864	1267	0.38%	0.26%	2.39%	1.62%	76	80	734	0.02%	0.15%	0.04%	0.36%
34	402	781	0.08%	0.16%	0.17%	0.33%							
35	11	18	0.00%	0.00%	0.08%	0.13%							
36	802	4903	0.16%	1.00%	0.52%	3.16%							
37	31	75	0.01%	0.02%	0.08%	0.20%							
38	2067	320	0.42%	0.07%	1.72%	0.27%							
39	935	613	0.19%	0.13%	1.16%	0.76%							
40	-	4061	-	0.83%	-	5.46%							
41	905	3076	0.19%	0.63%	0.78%	2.66%							
42	664	-	0.14%	-	0.97%	-							
43	1110	5888	0.23%	1.20%	0.59%	3.15%							

Source: The Labor Force Survey (2007)

Table B.6 Distribution of In-migrants by Province in 2008

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	27360	-	6.35%	-	1.24%	-	44	466	3836	0.11%	0.89%	0.08%	0.65%
2	24137	-	5.60%	-	4.53%	-	45	1816	5228	0.42%	1.21%	0.84%	2.43%
3	2989	-	0.69%	-	1.15%	-	46	3780	20182	0.88%	4.68%	2.28%	12.19%
4	3427	-	0.80%	-	1.30%	-	47	173	1626	0.04%	0.38%	0.25%	2.36%
5	5283	-	1.23%	-	2.17%	-	48	-	-	-	-	-	-
6	256	201	0.06%	0.05%	0.43%	0.34%	49	123	85	0.03%	0.02%	0.23%	0.16%
7	1377	1681	0.32%	0.39%	0.67%	0.82%	50	3675	5221	0.85%	1.21%	2.38%	3.38%
8	379	51	0.09%	0.01%	0.81%	0.11%	51	-	147	-	0.03%	-	0.46%
9	21	43	0.00%	0.01%	0.03%	0.07%	52	54	3683	0.01%	0.85%	0.12%	8.32%
10	3279	821	0.76%	0.19%	1.62%	0.41%	53	6766	10841	1.57%	2.52%	2.38%	3.81%
11	20527	-	4.76%	-	5.01%	-	54	915	656	0.21%	0.15%	0.51%	0.37%
12	4107	-	0.95%	-	2.20%	-	55	1582	636	0.37%	0.15%	2.39%	0.96%
13	440	203	0.10%	0.05%	0.37%	0.17%	56	-	4736	-	1.10%	-	4.21%
14	644	186	0.15%	0.04%	1.11%	0.32%	57	2461	5410	0.57%	1.26%	2.13%	4.69%
15	2679	-	0.62%	-	1.46%	-	58	1339	5787	0.31%	1.34%	1.00%	4.32%
16	196	61	0.05%	0.01%	0.15%	0.05%	59	268	1473	0.06%	0.34%	0.37%	2.05%
17	94	228	0.02%	0.05%	0.16%	0.39%	60	94	83	0.02%	0.02%	0.12%	0.10%
18	446	2822	0.10%	0.65%	0.48%	3.02%	61	107	4003	0.02%	0.93%	0.15%	5.50%
19	5040	237	1.17%	0.05%	2.11%	0.10%	62	324	514	0.08%	0.12%	1.11%	1.75%
20	500	1595	0.12%	0.37%	0.29%	0.93%	63	1638	3233	0.38%	0.75%	0.53%	1.05%
21	980	-	0.23%	-	0.61%	-	64	2277	230	0.53%	0.05%	3.50%	0.35%
22	14483	508	3.36%	0.12%	4.85%	0.17%	65	4968	79	1.15%	0.02%	8.78%	0.14%
23	7133	-	1.65%	-	3.19%	-	66	4160	-	0.97%	-	4.94%	-
24	310	152	0.07%	0.04%	0.51%	0.25%	67	5236	971	1.21%	0.23%	2.62%	0.49%
25	599	-	0.14%	-	0.58%	-	68	1414	22	0.33%	0.01%	4.67%	0.07%
26	1725	123	0.40%	0.03%	1.46%	0.10%	69	2382	35	0.55%	0.01%	2.60%	0.04%
27	3875	1647	0.90%	0.38%	0.92%	0.39%	70	3282	-	0.76%	-	1.06%	-
28	365	1803	0.08%	0.42%	0.32%	1.60%	71	270	382	0.06%	0.09%	0.53%	0.75%
29	-	329	-	0.08%	-	0.23%	72	972	1257	0.23%	0.29%	0.63%	0.82%
30	116	1325	0.03%	0.31%	0.14%	1.60%	73	-	2002	-	0.46%	-	2.10%
31	2038	1532	0.47%	0.36%	1.87%	1.41%	74	-	695	-	0.16%	-	0.67%
32	-	2183	-	0.51%	-	4.58%	75	431	-	0.10%	-	0.80%	-
33	706	1156	0.16%	0.27%	0.81%	1.32%	76	188	661	0.04%	0.15%	0.10%	0.36%
34	568	314	0.13%	0.07%	0.27%	0.15%							
35	-	-	-	-	-	-							
36	-	1577	-	0.37%	-	0.87%							
37	-	91	-	0.02%	-	0.27%							
38	2684	1372	0.62%	0.32%	2.26%	1.15%							
39	1246	605	0.29%	0.14%	1.45%	0.71%							
40	980	3995	0.23%	0.93%	1.17%	4.77%							
41	284	1717	0.07%	0.40%	0.19%	1.12%							
42	956	971	0.22%	0.23%	1.27%	1.29%							
43	376	1347	0.09%	0.31%	0.23%	0.82%							

Source: The Labor Force Survey (2008)

Table B.7 Distribution of In-migrants by Province in 2011

Province	Number of Migrants			% of Total Migrants			% of Total Labor Force			Province	Number of Migrants			% of Total Migrants			% of Total Labor Force		
	Group 1	Group 2	Group 3	Group 1	Group 2	Group 3	Group 1	Group 2	Group 3		Group 1	Group 2	Group 3	Group 1	Group 2	Group 3	Group 1	Group 2	Group 3
1	6815	-	670	3.58%	-	0.35%	0.31%	-	0.03%	44	1072	5192	-	0.56%	2.73%	-	0.19%	0.90%	-
2	1249	-	-	0.66%	-	-	0.24%	-	-	45	680	8556	-	0.36%	4.49%	-	0.37%	4.66%	-
3	389	-	-	0.20%	-	-	0.15%	-	-	46	1127	4532	2381	0.59%	2.38%	1.25%	0.63%	2.53%	1.33%
4	1284	394	-	0.67%	0.21%	-	0.55%	0.17%	-	47	82	5790	-	0.04%	3.04%	-	0.09%	6.27%	-
5	-	283	-	-	0.15%	-	-	0.13%	-	48	-	8612	-	-	4.52%	-	0.00%	4.53%	-
6	1626	158	460	0.85%	0.08%	0.24%	2.38%	0.23%	0.67%	49	-	37	-	-	0.02%	-	0.00%	0.09%	-
7	-	150	843	-	0.08%	0.44%	-	0.07%	0.42%	50	-	458	-	-	0.24%	-	0.00%	0.54%	-
8	479	268	310	0.25%	0.14%	0.16%	0.92%	0.51%	0.59%	51	276	783	-	0.14%	0.41%	-	0.68%	1.92%	-
9	83	622	306	0.04%	0.33%	0.16%	0.13%	0.99%	0.49%	52	-	735	-	-	0.39%	-	0.00%	1.25%	-
10	409	256	272	0.21%	0.13%	0.14%	0.22%	0.14%	0.15%	53	-	2948	-	-	1.55%	-	0.00%	1.04%	-
11	1360	-	-	0.71%	-	-	0.33%	-	-	54	1233	3787	-	0.65%	1.99%	-	0.58%	1.79%	-
12	2193	245	420	1.15%	0.13%	0.22%	1.08%	0.12%	0.21%	55	-	667	-	-	0.35%	-	-	0.88%	-
13	-	365	210	-	0.19%	0.11%	-	0.33%	0.19%	56	-	-	252	-	-	0.13%	-	-	0.27%
14	-	82	31	-	0.04%	0.02%	-	0.15%	0.06%	57	170	7049	52	0.09%	3.70%	0.03%	0.17%	6.93%	0.05%
15	347	243	-	0.18%	0.13%	-	0.17%	0.12%	-	58	-	1433	-	-	0.75%	-	-	1.13%	-
16	338	63	52	0.18%	0.03%	0.03%	0.23%	0.04%	0.04%	59	649	326	-	0.34%	0.17%	-	0.60%	0.30%	-
17	40	-	-	0.02%	-	-	0.07%	-	-	60	-	77	-	-	0.04%	-	-	0.12%	-
18	-	2812	542	-	1.48%	0.28%	-	2.91%	0.56%	61	-	2915	-	-	1.53%	-	-	5.90%	-
19	3506	2939	-	1.84%	1.54%	-	1.34%	1.12%	-	62	-	-	305	-	-	0.16%	-	-	0.90%
20	722	-	857	0.38%	-	0.45%	0.40%	-	0.47%	63	238	977	3465	0.12%	0.51%	1.82%	0.08%	0.33%	1.18%
21	-	618	-	-	0.32%	-	-	0.42%	-	64	-	34	-	-	0.02%	-	-	0.06%	-
22	358	169	556	0.19%	0.09%	0.29%	0.13%	0.06%	0.20%	65	419	449	-	0.22%	0.24%	-	0.90%	0.97%	-
23	1028	-	136	0.54%	-	0.07%	0.45%	-	0.06%	66	387	139	97	0.20%	0.07%	0.05%	0.44%	0.16%	0.11%
24	442	30	-	0.23%	0.02%	-	0.84%	0.06%	-	67	366	-	-	0.19%	-	-	0.19%	-	-
25	-	211	-	-	0.11%	-	-	0.19%	-	68	-	26	-	-	0.01%	-	-	0.08%	-
26	1248	953	-	0.66%	0.50%	-	0.97%	0.74%	-	69	-	-	-	-	-	-	-	-	-
27	316	1481	367	0.17%	0.78%	0.19%	0.07%	0.35%	0.09%	70	4031	618	-	2.12%	0.32%	-	1.28%	0.20%	-
28	303	389	-	0.16%	0.20%	-	0.28%	0.36%	-	71	-	-	-	-	-	-	-	-	-
29	-	853	392	-	0.45%	0.21%	-	0.69%	0.32%	72	176	395	-	0.09%	0.21%	-	0.12%	0.28%	-
30	-	-	560	-	-	0.29%	-	-	0.95%	73	-	778	403	-	0.41%	0.21%	-	0.84%	0.43%
31	302	487	-	0.16%	0.26%	-	0.42%	0.67%	-	74	94	476	-	0.05%	0.25%	-	0.07%	0.34%	-
32	501	-	-	0.26%	-	-	1.43%	-	-	75	-	-	-	-	-	-	-	-	-
33	3407	3519	-	1.79%	1.85%	-	5.38%	5.56%	-	76	-	101	-	-	0.05%	-	-	0.05%	-
34	-	75	-	-	0.04%	-	-	0.03%	-										
35	-	-	-	-	-	-	-	-	-										
36	-	-	-	-	-	-	-	-	-										
37	-	273	-	0.00%	0.14%	-	-	1.51%	-										
38	-	2083	-	0.00%	1.09%	-	-	2.00%	-										
39	260	87	-	0.14%	0.05%	-	0.36%	0.12%	-										
40	1070	1423	-	0.56%	0.75%	-	1.13%	1.50%	-										
41	114	5836	2901	0.06%	3.06%	1.52%	0.09%	4.49%	2.23%										
42	-	234	-	-	0.12%	-	-	0.30%	-										
43	-	2316	107	-	1.22%	0.06%	0.00%	1.83%	0.08%										

Source: The Labor Force Survey (2011)

Table B.8 Distribution of In-migrants by Province in 2012

Province	Number of Migrants		% of Total Migrants		% of Total Labor Force		Province	Number of Migrants		% of Total Migrants		% of Total Labor Force	
	Group 1	Group 2	Group 1	Group 2	Group 1	Group 2		Group 1	Group 2	Group 1	Group 2	Group 1	Group 2
1	8808	-	3.80%	-	0.40%	-	44	1207	4817	0.52%	2.08%	0.21%	0.84%
2	3162	-	1.36%	-	0.57%	-	45	-	19675	-	8.49%	-	7.93%
3	817	325	0.35%	0.14%	0.28%	0.11%	46	8790	3395	3.79%	1.46%	5.00%	1.93%
4	1471	1799	0.63%	0.78%	0.52%	0.64%	47	-	284	-	0.12%	-	0.27%
5	1031	279	0.44%	0.12%	0.42%	0.11%	48	-	3261	-	1.41%	-	1.61%
6	1862	485	0.80%	0.21%	2.46%	0.64%	49	-	-	-	-	-	-
7	-	124	-	0.05%	-	0.07%	50	593	1858	0.26%	0.80%	0.32%	0.99%
8	159	542	0.07%	0.23%	0.29%	0.97%	51	-	343	-	0.15%	-	0.87%
9	754	967	0.33%	0.42%	1.02%	1.31%	52	267	624	0.12%	0.27%	1.01%	2.36%
10	-	-	-	-	-	-	53	-	4979	-	2.15%	-	1.62%
11	1333	202	0.58%	0.09%	0.31%	0.05%	54	-	1910	-	0.82%	-	0.87%
12	2863	-	1.24%	-	1.36%	-	55	-	-	-	-	-	-
13	-	-	-	-	-	-	56	101	1437	0.04%	0.62%	0.16%	2.21%
14	97	596	0.04%	0.26%	0.15%	0.91%	57	-	2963	-	1.28%	-	2.67%
15	3910	-	1.69%	-	1.78%	-	58	-	190	-	0.08%	-	0.11%
16	2274	416	0.98%	0.18%	1.57%	0.29%	59	-	-	-	-	-	-
17	331	177	0.14%	0.08%	0.53%	0.28%	60	-	113	-	0.05%	-	0.13%
18	1377	2460	0.59%	1.06%	1.36%	2.44%	61	-	919	-	0.40%	-	2.05%
19	90	523	0.04%	0.23%	0.04%	0.23%	62	-	-	-	-	-	-
20	-	1044	-	0.45%	-	0.57%	63	-	1571	-	0.68%	-	0.52%
21	-	-	-	-	-	-	64	367	937	0.16%	0.40%	0.51%	1.29%
22	1506	1449	0.65%	0.63%	0.56%	0.54%	65	273	936	0.12%	0.40%	0.51%	1.73%
23	2512	-	1.08%	-	0.96%	-	66	1699	223	0.73%	0.10%	1.86%	0.24%
24	279	394	0.12%	0.17%	0.56%	0.79%	67	131	1814	0.06%	0.78%	0.08%	1.10%
25	546	325	0.24%	0.14%	0.52%	0.31%	68	881	28	0.38%	0.01%	2.81%	0.09%
26	87	289	0.04%	0.12%	0.06%	0.21%	69	575	407	0.25%	0.18%	0.71%	0.51%
27	1107	1557	0.48%	0.67%	0.34%	0.48%	70	-	3550	-	1.53%	-	1.06%
28	1551	733	0.67%	0.32%	1.38%	0.65%	71	83	374	0.04%	0.16%	0.16%	0.73%
29	754	2523	0.33%	1.09%	0.59%	1.96%	72	-	-	-	-	-	-
30	-	-	-	-	-	-	73	513	849	0.22%	0.37%	0.55%	0.91%
31	-	-	-	0.64%	-	1.55%	74	132	1165	0.06%	0.50%	0.09%	0.80%
32	-	1421	-	0.61%	-	3.27%	75	-	-	-	-	-	-
33	-	-	-	-	-	-	76	-	-	-	-	-	-
34	-	222	-	0.10%	-	0.11%							
35	-	15	-	0.01%	-	0.08%							
36	-	1099	-	0.47%	-	0.60%							
37	-	350	-	0.15%	-	0.81%							
38	1104	859	0.48%	0.37%	0.99%	0.77%							
39	-	579	-	0.25%	-	0.87%							
40	606	6999	0.26%	3.02%	0.71%	8.16%							
41	424	1836	0.18%	0.79%	0.28%	1.21%							
42	848	600	0.37%	0.26%	0.97%	0.69%							
43	-	5866	-	2.53%	-	3.24%							

Source: The Labor Force Survey (2012)

Appendix C Derivations of Elasticities.

This appendix shows the derivation of direct and cross elasticities based on the nested logit model.

Direct elasticity

Suppose the probability of choosing province *k* in region *j* is:

$$P_{ijk} = p_{ij} \times p_{ik|j} = \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \times \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)$, Z_i is a personal characteristic of i^{th} individual and X_{jk} is a provincial attribute of province *k* in region *j*. Take the log of both sides, so that

$$\ln(P_{ijk}) = \ln\left[exp\left(Z_i\alpha_j + \rho_j I_j\right)\right] - \ln[\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)] + \ln\left[exp\left(X_{jk}\beta/\rho_j\right)\right] - \ln[\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)]$$

and take derivative with respect to X_{jk}

$$\frac{\partial \ln(P_{ijk})}{\partial X_{jk}} = \frac{\partial \ln[exp(Z_i\alpha_j+\rho_j I_j)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)]}{\partial X_{jk}} + \frac{\partial \ln[exp(X_{jk}\beta/\rho_j)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)]}{\partial X_{jk}}$$

$$= \frac{\partial(Z_i\alpha_j+\rho_j I_j)}{\partial X_{jk}} - \frac{1}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{\partial exp(Z_i\alpha_j+\rho_j I_j)}{\partial X_{jk}} + \frac{\partial(X_{jk}\beta/\rho_j)}{\partial X_{jk}} - \frac{1}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} \frac{\partial exp(X_{jk}\beta/\rho_j)}{\partial X_{jk}}$$

$$= \rho_j \frac{\partial\left(ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)\right)}{\partial X_{jk}} - \rho_j \frac{exp(Z_i\alpha_j+\rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{\partial ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)}{\partial X_{jk}} + \frac{\beta}{\rho_j} - \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

$$= \rho_j \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} - \rho_j \frac{exp(Z_i\alpha_j+\rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + \frac{\beta}{\rho_j} - \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

$$= \left[\frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} - \frac{exp(Z_i\alpha_j+\rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + \frac{1}{\rho_j} - \frac{1}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}\right]\beta$$

$$= \left[-\frac{exp(Z_i\alpha_j+\rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + \frac{1}{\rho_j} - \frac{1}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} + 1 - 1\right]\beta$$

$$= \left[(1 - \frac{exp(Z_i\alpha_j+\rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m+\rho_m I_m)} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}) + (\frac{1}{\rho_j} - 1)(1 - \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)})\right]\beta$$

$$= \left[(1 - p_{ijk}) + (\frac{1}{\rho_j} - 1)(1 - p_{ik|j})\right]\beta.$$

Multiply both sides by X_{jk} to get the direct elasticity as:

$$\varepsilon_{kk} = \frac{\partial ln(p_{ijk})}{\partial X_{jk}} \cdot X_{jk} = \left[\left(1 - p_{ijk}\right) + \left(\frac{1}{\rho_j} - 1\right)(1 - p_{ik|j})\right]\beta \cdot X_{jk}.$$

Cross elasticity in the same nest

Suppose the probability of choosing province l in region j is:

$$P_{ijl} = p_{ij} \times p_{il|j} = \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \times \frac{exp(X_{jl}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

where $I_j = ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)$, Z_i is a personal characteristic of i^{th} individual and X_{jl} is a provincial attribute of province l in region j. The cross elasticity with respect to X_{jk} is derived as follows:

$$\frac{\partial \ln(P_{ijl})}{\partial X_{jk}} = \frac{\partial \ln[exp(Z_i\alpha_j + \rho_j I_j)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)]}{\partial X_{jk}} + \frac{\partial \ln[exp(X_{jl}\beta/\rho_j)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)]}{\partial X_{jk}}$$

$$= \frac{\partial(Z_i\alpha_j + \rho_j I_j)}{\partial X_{jk}} - \frac{1}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\partial exp(Z_i\alpha_j + \rho_j I_j)}{\partial X_{jk}} + \frac{\partial(X_{jl}\beta/\rho_j)}{\partial X_{jk}} - \frac{1}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} \frac{\partial exp(X_{jk}\beta/\rho_j)}{\partial X_{jk}}$$

$$= \rho_j \frac{\partial\left(ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)\right)}{\partial X_{jk}} - \rho_j \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\partial ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)}{\partial X_{jk}} + 0 - \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

$$= \rho_j \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} - \rho_j \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + 0 - \frac{\beta}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}$$

$$= \left[\frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} - \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} - \frac{1}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)}\right]\beta$$

$$= -\left[\frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} + \frac{1}{\rho_j} \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp(X_{jn}\beta/\rho_j)} - \frac{exp(X_{jk}\beta/\rho_j)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)}\right]\beta$$

$$= -\left[p_{ijk} + (\frac{1}{\rho_j} - 1)p_{ik|j}\right]\beta$$

So that,

$$\varepsilon_{lk} = \frac{\partial ln(p_{ijl})}{\partial X_{jk}} \cdot X_{jk} = -\left[p_{ijk} + \left(\frac{1}{\rho_j} - 1\right)p_{ik|j}\right]\beta \cdot X_{jk} \qquad (4.24)$$

Cross elasticity in the different nest

Suppose the probability of choosing province *l* in region *j* is:

$$P_{irs} = p_{ir} \times p_{is|r} = \frac{exp(Z_i\alpha_r + \rho_r I_r)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \times \frac{exp(X_{rs}\beta/\rho_r)}{\sum_{n=1}^{K_j} exp(X_{rn}\beta/\rho_r)}$$

where $I_j = ln\left(\sum_{n=1}^{S_r} exp(X_{rn}\beta/\rho_r)\right)$, Z_i is a personal characteristic of i^{th} individual and X_{rs} is a provincial attribute of province *s* in region *r*. The cross elasticity with respect to X_{jk} is derived as follows:

$$\frac{\partial \ln(P_{irs})}{\partial X_{jk}} = \frac{\partial \ln[exp(Z_i\alpha_r + \rho_r I_r)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)]}{\partial X_{jk}} + \frac{\partial \ln[exp(X_{rs}\beta/\rho_r)]}{\partial X_{jk}} - \frac{\partial \ln[\sum_{n=1}^{K_j} exp(X_{rn}\beta/\rho_r)]}{\partial X_{jk}}$$

$$= 0 - \frac{1}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\partial exp(Z_i\alpha_j + \rho_j I_j)}{\partial X_{jk}} + 0 - 0$$

$$= -\rho_j \frac{exp(Z_i\alpha_j + \rho_j I_j)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\partial ln\left(\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)\right)}{\partial X_{jk}}$$

$$= -\rho_j \frac{exp\left(Z_i\alpha_j + \rho_j I_j\right)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{\beta}{\rho_j} \frac{exp\left(X_{jk}\beta/\rho_j\right)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)}$$

$$= -\frac{exp\left(Z_i\alpha_j + \rho_j I_j\right)}{\sum_{m=1}^{4} exp(Z_i\alpha_m + \rho_m I_m)} \frac{exp\left(X_{jk}\beta/\rho_j\right)}{\sum_{n=1}^{K_j} exp\left(X_{jn}\beta/\rho_j\right)} \beta$$

So that,

$$\varepsilon_{sk} = \frac{\partial ln(p_{irs})}{\partial X_{jk}} \cdot X_{jk} = -p_{ijk} \cdot \beta \cdot X_{jk}$$

Appendix D Additional Tables for Chapter 5

This appendix presents the tables of elasticities calculated from model 2 and 3 in 2002, 2004 – 2008 and 2011 - 2012. These elasticities report a change in the probability of migrating to a province for group 1 migrants who are currently working in both agricultural and non-agricultural sectors with respect to a change in a determinant of labor migration.

Table D.1 The Elasticities with respect to Wages from Model 2 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	11.73192	-4.52590	-0.63456	11.68357	-4.57425	-0.68291
2	12.06978	-4.71481	-0.66105	12.01941	-4.76518	-0.71142
3	15.87112	-0.32412	-0.04544	15.86765	-0.32759	-0.04891
4	15.72397	-0.30129	-0.04224	15.72075	-0.30451	-0.04546
5	15.63526	-0.36494	-0.05117	15.63137	-0.36884	-0.05507
6	15.57433	-0.35136	-0.04926	15.57057	-0.35511	-0.05302
7	16.05840	-0.40610	-0.05694	16.05406	-0.41044	-0.06128
8	15.67840	-0.35194	-0.04934	15.67464	-0.35570	-0.05310
9	16.06011	-0.42747	-0.05993	16.05554	-0.43203	-0.06450
10	14.99823	-0.21082	-0.02956	14.99598	-0.21307	-0.03181
11	16.39449	-0.26079	-0.03656	16.39171	-0.26358	-0.03935
12	16.69100	-0.15743	-0.02207	16.68932	-0.15911	-0.02375
13	16.83218	-0.10589	-0.01485	16.83105	-0.10702	-0.01598
14	16.89525	-0.05901	-0.00827	16.89462	-0.05964	-0.00890
15	15.95846	-0.24634	-0.03454	15.95583	-0.24897	-0.03717
16	16.16958	-0.40505	-0.05679	16.16525	-0.40938	-0.06112
17	15.86737	-0.45694	-0.06407	15.86249	-0.46182	-0.06895
18	16.58079	-0.23371	-0.03277	16.57830	-0.23621	-0.03526
19	16.44996	-0.23597	-0.03308	16.44744	-0.23849	-0.03561
20	16.70676	-0.25283	-0.03545	16.70406	-0.25553	-0.03815
21	15.83220	-0.23854	-0.03344	15.82965	-0.24109	-0.03599
22	16.32544	-0.31985	-0.04484	16.32203	-0.32327	-0.04826
23	16.20236	-0.33520	-0.04700	16.19878	-0.33878	-0.05058
24	16.59535	-0.41521	-0.05821	16.59092	-0.41964	-0.06265
25	16.47120	-0.19164	-0.02687	16.46915	-0.19369	-0.02892
26	16.55848	-0.04912	-0.00689	16.55796	-0.04964	-0.00741
27	3.06764	-0.02476	-0.00452	3.06634	-0.02606	-0.00581
28	3.07024	-0.02603	-0.00475	3.06888	-0.02739	-0.00611
29	3.08039	-0.02987	-0.00545	3.07883	-0.03143	-0.00701
30	3.08912	-0.03742	-0.00683	3.08716	-0.03938	-0.00879
31	3.07700	-0.03294	-0.00601	3.07528	-0.03466	-0.00773
32	3.07234	-0.02634	-0.00481	3.07096	-0.02771	-0.00618
33	3.07956	-0.02551	-0.00466	3.07823	-0.02684	-0.00599
34	3.07543	-0.02120	-0.00387	3.07432	-0.02231	-0.00498
35	3.06314	-0.01487	-0.00271	3.06236	-0.01565	-0.00349
36	3.07116	-0.04467	-0.00815	3.06883	-0.04700	-0.01049
37	3.08544	-0.04340	-0.00792	3.08317	-0.04567	-0.01019
38	3.07279	-0.03959	-0.00722	3.07072	-0.04165	-0.00929
39	3.08491	-0.03757	-0.00686	3.08294	-0.03953	-0.00882
40	3.09298	-0.04114	-0.00751	3.09083	-0.04329	-0.00966
41	3.09492	-0.04506	-0.00822	3.09256	-0.04742	-0.01058
42	3.08481	-0.04444	-0.00811	3.08249	-0.04676	-0.01043
43	3.08925	-0.04799	-0.00876	3.08674	-0.05050	-0.01127
44	9.22349	-0.55451	-0.00577	9.22055	-0.55745	-0.00871
45	9.27335	-0.44677	-0.00465	9.27099	-0.44914	-0.00702
46	9.35296	-0.40331	-0.00420	9.35082	-0.40544	-0.00633
47	9.44423	-0.28720	-0.00299	9.44270	-0.28872	-0.00451
48	9.47497	-0.23652	-0.00246	9.47371	-0.23778	-0.00371
49	9.34101	-0.35925	-0.00374	9.33911	-0.36116	-0.00564
50	9.16646	-0.62522	-0.00651	9.16315	-0.62853	-0.00982
51	9.40082	-0.25109	-0.00261	9.39949	-0.25242	-0.00394
52	9.35774	-0.40044	-0.00417	9.35562	-0.40257	-0.00629
53	9.20210	-0.58517	-0.00609	9.19900	-0.58827	-0.00919
54	9.40241	-0.32370	-0.00337	9.40069	-0.32541	-0.00508
55	9.38344	-0.31400	-0.00327	9.38178	-0.31566	-0.00493
56	9.47232	-0.23789	-0.00248	9.47106	-0.23915	-0.00374
57	9.25856	-0.55298	-0.00575	9.25563	-0.55591	-0.00869
58	9.29922	-0.48969	-0.00510	9.29662	-0.49228	-0.00769
59	9.29705	-0.48186	-0.00501	9.29450	-0.48441	-0.00757
60	9.45798	-0.26331	-0.00274	9.45658	-0.26471	-0.00414
61	9.49838	-0.15784	-0.00164	9.49754	-0.15868	-0.00248
62	9.47360	-0.22329	-0.00232	9.47241	-0.22448	-0.00351
63	3.36255	-0.08302	-0.02396	3.37967	-0.06590	-0.00684
64	3.37089	-0.08306	-0.02397	3.38802	-0.06593	-0.00684
65	3.36955	-0.08206	-0.02368	3.38647	-0.06514	-0.00676
66	3.37458	-0.06543	-0.01888	3.38807	-0.05193	-0.00539
67	3.36327	-0.11686	-0.03372	3.38737	-0.09277	-0.00962
68	3.35752	-0.13106	-0.03782	3.38455	-0.10403	-0.01079
69	3.34608	-0.16888	-0.04873	3.38090	-0.13406	-0.01391
70	3.36808	-0.05697	-0.01644	3.37983	-0.04522	-0.00469
71	3.37338	-0.05747	-0.01658	3.38523	-0.04562	-0.00473
72	3.36952	-0.07508	-0.02166	3.38500	-0.05960	-0.00618
73	3.36852	-0.07259	-0.02095	3.38349	-0.05762	-0.00598
74	3.37418	-0.05012	-0.01446	3.38452	-0.03979	-0.00413
75	3.37600	-0.04499	-0.01298	3.38528	-0.03572	-0.00371
76	3.37541	-0.04152	-0.01198	3.38397	-0.03296	-0.00342

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.2 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.41142	-0.15872	-0.02225	0.40973	-0.16041	-0.02395
2	0.40527	-0.15831	-0.02220	0.40358	-0.16000	-0.02389
3	0.55984	-0.01143	-0.00160	0.55972	-0.01156	-0.00173
4	0.56170	-0.01076	-0.00151	0.56158	-0.01088	-0.00162
5	0.55650	-0.01299	-0.00182	0.55636	-0.01313	-0.00196
6	0.55675	-0.01256	-0.00176	0.55661	-0.01269	-0.00190
7	0.55082	-0.01393	-0.00195	0.55067	-0.01408	-0.00210
8	0.55607	-0.01248	-0.00175	0.55594	-0.01262	-0.00188
9	0.54524	-0.01451	-0.00203	0.54508	-0.01467	-0.00219
10	0.56516	-0.00794	-0.00111	0.56508	-0.00803	-0.00120
11	0.56298	-0.00896	-0.00126	0.56288	-0.00905	-0.00135
12	0.56940	-0.00537	-0.00075	0.56934	-0.00543	-0.00081
13	0.56935	-0.00358	-0.00050	0.56931	-0.00362	-0.00054
14	0.57321	-0.00200	-0.00028	0.57319	-0.00202	-0.00030
15	0.56666	-0.00875	-0.00123	0.56657	-0.00884	-0.00132
16	0.55121	-0.01381	-0.00194	0.55107	-0.01396	-0.00208
17	0.55014	-0.01584	-0.00222	0.54997	-0.01601	-0.00239
18	0.56182	-0.00792	-0.00111	0.56173	-0.00800	-0.00119
19	0.56378	-0.00809	-0.00113	0.56370	-0.00817	-0.00122
20	0.55567	-0.00841	-0.00118	0.55558	-0.00850	-0.00127
21	0.56579	-0.00852	-0.00120	0.56570	-0.00862	-0.00129
22	0.55776	-0.01093	-0.00153	0.55765	-0.01104	-0.00165
23	0.55762	-0.01154	-0.00162	0.55749	-0.01166	-0.00174
24	0.53910	-0.01349	-0.00189	0.53896	-0.01363	-0.00204
25	0.56752	-0.00660	-0.00093	0.56745	-0.00667	-0.00100
26	0.53021	-0.00157	-0.00022	0.53019	-0.00159	-0.00024
27	0.10910	-0.00088	-0.00016	0.10905	-0.00093	-0.00021
28	0.10961	-0.00093	-0.00017	0.10956	-0.00098	-0.00022
29	0.11145	-0.00108	-0.00020	0.11139	-0.00114	-0.00025
30	0.11195	-0.00136	-0.00025	0.11188	-0.00143	-0.00032
31	0.10992	-0.00118	-0.00021	0.10985	-0.00124	-0.00028
32	0.11037	-0.00095	-0.00017	0.11032	-0.00100	-0.00022
33	0.11228	-0.00093	-0.00017	0.11223	-0.00098	-0.00022
34	0.11247	-0.00078	-0.00014	0.11243	-0.00082	-0.00018
35	0.11185	-0.00054	-0.00010	0.11182	-0.00057	-0.00013
36	0.10733	-0.00156	-0.00028	0.10725	-0.00164	-0.00037
37	0.11057	-0.00156	-0.00028	0.11049	-0.00164	-0.00037
38	0.10806	-0.00139	-0.00025	0.10799	-0.00146	-0.00033
39	0.11124	-0.00135	-0.00025	0.11117	-0.00143	-0.00032
40	0.11209	-0.00149	-0.00027	0.11201	-0.00157	-0.00035
41	0.11182	-0.00163	-0.00030	0.11174	-0.00171	-0.00038
42	0.11014	-0.00159	-0.00029	0.11006	-0.00167	-0.00037
43	0.11042	-0.00172	-0.00031	0.11033	-0.00180	-0.00040
44	0.33278	-0.02001	-0.00021	0.33268	-0.02011	-0.00031
45	0.33625	-0.01620	-0.00017	0.33616	-0.01629	-0.00025
46	0.34214	-0.01475	-0.00015	0.34206	-0.01483	-0.00023
47	0.34713	-0.01056	-0.00011	0.34707	-0.01061	-0.00017
48	0.34932	-0.00872	-0.00009	0.34928	-0.00877	-0.00014
49	0.33922	-0.01305	-0.00014	0.33915	-0.01312	-0.00020
50	0.33131	-0.02260	-0.00024	0.33119	-0.02272	-0.00035
51	0.34059	-0.00910	-0.00009	0.34054	-0.00915	-0.00014
52	0.34118	-0.01460	-0.00015	0.34110	-0.01468	-0.00023
53	0.33323	-0.02119	-0.00022	0.33312	-0.02130	-0.00033
54	0.34322	-0.01182	-0.00012	0.34316	-0.01188	-0.00019
55	0.34065	-0.01140	-0.00012	0.34059	-0.01146	-0.00018
56	0.34892	-0.00876	-0.00009	0.34888	-0.00881	-0.00014
57	0.33727	-0.02014	-0.00021	0.33716	-0.02025	-0.00032
58	0.33914	-0.01786	-0.00019	0.33905	-0.01795	-0.00028
59	0.33879	-0.01756	-0.00018	0.33869	-0.01765	-0.00028
60	0.34809	-0.00969	-0.00010	0.34804	-0.00974	-0.00015
61	0.35036	-0.00582	-0.00006	0.35033	-0.00585	-0.00009
62	0.34899	-0.00823	-0.00009	0.34895	-0.00827	-0.00013
63	0.11900	-0.00294	-0.00085	0.11961	-0.00233	-0.00024
64	0.12163	-0.00300	-0.00086	0.12225	-0.00238	-0.00025
65	0.12084	-0.00294	-0.00085	0.12145	-0.00234	-0.00024
66	0.12196	-0.00236	-0.00068	0.12245	-0.00188	-0.00019
67	0.12079	-0.00420	-0.00121	0.12165	-0.00333	-0.00035
68	0.11987	-0.00468	-0.00135	0.12084	-0.00371	-0.00039
69	0.11918	-0.00602	-0.00174	0.12042	-0.00477	-0.00050
70	0.12328	-0.00209	-0.00060	0.12371	-0.00166	-0.00017
71	0.12286	-0.00209	-0.00060	0.12329	-0.00166	-0.00017
72	0.12224	-0.00272	-0.00079	0.12280	-0.00216	-0.00022
73	0.12198	-0.00263	-0.00076	0.12252	-0.00209	-0.00022
74	0.12259	-0.00182	-0.00053	0.12297	-0.00145	-0.00015
75	0.12406	-0.00165	-0.00048	0.12440	-0.00131	-0.00014
76	0.12283	-0.00151	-0.00044	0.12314	-0.00120	-0.00012

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.3 The Elasticities with respect to Distances from Model 2 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-2.96534	1.14396	0.16039	-2.95312	1.15618	0.17261
2	-3.32260	1.29791	0.18197	-3.30874	1.31177	0.19584
3	-3.99205	0.08153	0.01143	-3.99118	0.08240	0.01230
4	-3.89268	0.07459	0.01046	-3.89189	0.07539	0.01125
5	-3.66059	0.08544	0.01198	-3.65968	0.08635	0.01289
6	-3.62286	0.08173	0.01146	-3.62199	0.08261	0.01233
7	-4.02552	0.10180	0.01427	-4.02444	0.10289	0.01536
8	-3.72967	0.08372	0.01174	-3.72878	0.08462	0.01263
9	-3.98934	0.10618	0.01489	-3.98821	0.10732	0.01602
10	-3.40862	0.04791	0.00672	-3.40811	0.04842	0.00723
11	-4.70486	0.07484	0.01049	-4.70406	0.07564	0.01129
12	-5.44064	0.05132	0.00719	-5.44009	0.05186	0.00774
13	-5.94427	0.03739	0.00524	-5.94387	0.03779	0.00564
14	-6.56284	0.02292	0.00321	-6.56260	0.02317	0.00346
15	-4.29597	0.06631	0.00930	-4.29527	0.06702	0.01001
16	-4.14319	0.10379	0.01455	-4.14208	0.10490	0.01566
17	-3.75378	0.10810	0.01516	-3.75262	0.10925	0.01631
18	-4.98559	0.07027	0.00985	-4.98484	0.07102	0.01060
19	-4.84265	0.06947	0.00974	-4.84191	0.07021	0.01048
20	-5.04885	0.07641	0.01071	-5.04803	0.07722	0.01153
21	-4.18789	0.06310	0.00885	-4.18721	0.06377	0.00952
22	-4.47408	0.08766	0.01229	-4.47314	0.08859	0.01323
23	-4.31189	0.08920	0.01251	-4.31094	0.09016	0.01346
24	-4.55765	0.11403	0.01599	-4.55643	0.11525	0.01721
25	-5.03937	0.05863	0.00822	-5.03874	0.05926	0.00885
26	-6.33969	0.01881	0.00264	-6.33949	0.01901	0.00284
27	-1.32822	0.01072	0.00196	-1.32766	0.01128	0.00252
28	-1.28387	0.01089	0.00199	-1.28330	0.01145	0.00256
29	-1.16623	0.01131	0.00206	-1.16564	0.01190	0.00266
30	-0.96282	0.01166	0.00213	-0.96221	0.01227	0.00274
31	-1.06663	0.01142	0.00208	-1.06603	0.01201	0.00268
32	-1.27607	0.01094	0.00200	-1.27550	0.01151	0.00257
33	-1.31837	0.01092	0.00199	-1.31780	0.01149	0.00256
34	-1.49284	0.01029	0.00188	-1.49230	0.01083	0.00242
35	-1.82354	0.00885	0.00162	-1.82307	0.00931	0.00208
36	-0.76784	0.01117	0.00204	-0.76726	0.01175	0.00262
37	-0.81677	0.01149	0.00210	-0.81616	0.01209	0.00270
38	-0.88437	0.01139	0.00208	-0.88378	0.01199	0.00267
39	-0.95296	0.01161	0.00212	-0.95235	0.01221	0.00272
40	-0.87831	0.01168	0.00213	-0.87770	0.01229	0.00274
41	-0.79505	0.01158	0.00211	-0.79445	0.01218	0.00272
42	-0.79331	0.01143	0.00209	-0.79272	0.01202	0.00268
43	-0.72749	0.01130	0.00206	-0.72690	0.01189	0.00265

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.99723	0.12007	0.00125	-1.99659	0.12071	0.00189
45	-2.16489	0.10430	0.00109	-2.16434	0.10485	0.00164
46	-2.31597	0.09987	0.00104	-2.31544	0.10040	0.00157
47	-2.64823	0.08053	0.00084	-2.64780	0.08096	0.00126
48	-2.83060	0.07066	0.00074	-2.83023	0.07103	0.00111
49	-2.37383	0.09130	0.00095	-2.37334	0.09178	0.00143
50	-1.88492	0.12856	0.00134	-1.88423	0.12925	0.00202
51	-2.69541	0.07199	0.00075	-2.69502	0.07237	0.00113
52	-2.32448	0.09947	0.00104	-2.32395	0.10000	0.00156
53	-1.95125	0.12408	0.00129	-1.95059	0.12474	0.00195
54	-2.51405	0.08655	0.00090	-2.51360	0.08701	0.00136
55	-2.51235	0.08407	0.00087	-2.51191	0.08452	0.00132
56	-2.82284	0.07089	0.00074	-2.82247	0.07127	0.00111
57	-2.03983	0.12183	0.00127	-2.03918	0.12248	0.00191
58	-2.14490	0.11295	0.00118	-2.14430	0.11355	0.00177
59	-2.15082	0.11148	0.00116	-2.15023	0.11207	0.00175
60	-2.72855	0.07596	0.00079	-2.72815	0.07637	0.00119
61	-3.18985	0.05301	0.00055	-3.18957	0.05329	0.00083
62	-2.87415	0.06774	0.00070	-2.87379	0.06810	0.00106
63	-2.25418	0.05566	0.01606	-2.26565	0.04418	0.00458
64	-2.26701	0.05586	0.01612	-2.27853	0.04434	0.00460
65	-2.27568	0.05542	0.01599	-2.28711	0.04399	0.00456
66	-2.49484	0.04837	0.01396	-2.50481	0.03840	0.00398
67	-1.94781	0.06768	0.01953	-1.96177	0.05373	0.00557
68	-1.83949	0.07180	0.02072	-1.85429	0.05700	0.00591
69	-1.61099	0.08131	0.02346	-1.62775	0.06454	0.00670
70	-2.61906	0.04430	0.01278	-2.62819	0.03516	0.00365
71	-2.61715	0.04458	0.01286	-2.62635	0.03539	0.00367
72	-2.35958	0.05258	0.01517	-2.37042	0.04173	0.00433
73	-2.38951	0.05149	0.01486	-2.40012	0.04087	0.00424
74	-2.74860	0.04083	0.01178	-2.75702	0.03241	0.00336
75	-2.85636	0.03807	0.01098	-2.86421	0.03022	0.00313
76	-2.93213	0.03607	0.01041	-2.93957	0.02863	0.00297

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.4 The Elasticities with respect to Wages from Model 3 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	8.84783	-4.09329	-0.83292	8.79222	-4.14891	-0.88853
2	10.54463	-2.81580	-0.57297	10.50637	-2.85406	-0.61123
3	12.43718	-0.45414	-0.09241	12.43101	-0.46031	-0.09858
4	12.42005	-0.33597	-0.06836	12.41548	-0.34054	-0.07293
5	12.44322	-0.29285	-0.05959	12.43924	-0.29683	-0.06357
6	12.44228	-0.23448	-0.04771	12.43909	-0.23766	-0.05090
7	12.87027	-0.23538	-0.04790	12.86707	-0.23858	-0.05109
8	12.62374	-0.13632	-0.02774	12.62189	-0.13817	-0.02959
9	12.68323	-0.44079	-0.08969	12.67724	-0.44678	-0.09568
10	11.93060	-0.17571	-0.03575	11.92821	-0.17810	-0.03814
11	13.06950	-0.18801	-0.03826	13.06695	-0.19057	-0.04081
12	13.16288	-0.24837	-0.05054	13.15951	-0.25174	-0.05391
13	13.39989	-0.08271	-0.01683	13.39877	-0.08384	-0.01795
14	13.48129	-0.01420	-0.00289	13.48110	-0.01439	-0.00308
15	12.67198	-0.22694	-0.04618	12.66890	-0.23003	-0.04926
16	13.02706	-0.16625	-0.03383	13.02480	-0.16851	-0.03609
17	12.71732	-0.27673	-0.05631	12.71356	-0.28049	-0.06007
18	13.26763	-0.11662	-0.02373	13.26604	-0.11821	-0.02532
19	13.03821	-0.24370	-0.04959	13.03489	-0.24701	-0.05290
20	13.22561	-0.27413	-0.05578	13.22189	-0.27785	-0.05950
21	12.44891	-0.34330	-0.06986	12.44425	-0.34796	-0.07452
22	12.85169	-0.39787	-0.08096	12.84628	-0.40328	-0.08637
23	12.91455	-0.24925	-0.05072	12.91116	-0.25264	-0.05411
24	13.25640	-0.28390	-0.05777	13.25255	-0.28776	-0.06163
25	13.13586	-0.12766	-0.02598	13.13413	-0.12940	-0.02771
26	13.16600	-0.05355	-0.01090	13.16527	-0.05428	-0.01162
27	3.40155	-0.02580	-0.00518	3.39990	-0.02745	-0.00683
28	3.40537	-0.02626	-0.00527	3.40368	-0.02794	-0.00695
29	3.41319	-0.03395	-0.00681	3.41101	-0.03613	-0.00899
30	3.42877	-0.03641	-0.00731	3.42643	-0.03875	-0.00964
31	3.41099	-0.03579	-0.00718	3.40870	-0.03808	-0.00948
32	3.41070	-0.02359	-0.00474	3.40919	-0.02511	-0.00625
33	3.42458	-0.01680	-0.00337	3.42351	-0.01788	-0.00445
34	3.41331	-0.01872	-0.00376	3.41211	-0.01992	-0.00496
35	3.40035	-0.01105	-0.00222	3.39964	-0.01176	-0.00293
36	3.41407	-0.03924	-0.00788	3.41155	-0.04176	-0.01039
37	3.41754	-0.05019	-0.01007	3.41432	-0.05341	-0.01329
38	3.40118	-0.04830	-0.00970	3.39808	-0.05140	-0.01279
39	3.41341	-0.04726	-0.00949	3.41039	-0.05028	-0.01251
40	3.43567	-0.03792	-0.00761	3.43324	-0.04035	-0.01004
41	3.43883	-0.04124	-0.00828	3.43619	-0.04389	-0.01092
42	3.43077	-0.03740	-0.00751	3.42838	-0.03980	-0.00990
43	3.42191	-0.05513	-0.01107	3.41838	-0.05866	-0.01460
44	9.08157	-0.55828	-0.00675	9.07754	-0.56231	-0.01077
45	8.92417	-0.65862	-0.00796	8.91942	-0.66336	-0.01271
46	9.29518	-0.32323	-0.00391	9.29285	-0.32556	-0.00624
47	9.29457	-0.29936	-0.00362	9.29241	-0.30152	-0.00578
48	9.25964	-0.31463	-0.00380	9.25737	-0.31690	-0.00607
49	9.47429	-0.08891	-0.00107	9.47365	-0.08956	-0.00172
50	9.11011	-0.54321	-0.00657	9.10620	-0.54713	-0.01048
51	9.24025	-0.27529	-0.00333	9.23827	-0.27727	-0.00531
52	9.38539	-0.23492	-0.00284	9.38370	-0.23661	-0.00453
53	8.65273	-0.99626	-0.01204	8.64554	-1.00344	-0.01922
54	9.34642	-0.24226	-0.00293	9.34467	-0.24401	-0.00467
55	9.36720	-0.19323	-0.00234	9.36581	-0.19462	-0.00373
56	9.42658	-0.14643	-0.00177	9.42552	-0.14749	-0.00283
57	8.98419	-0.68872	-0.00832	8.97922	-0.69369	-0.01329
58	9.32022	-0.33037	-0.00399	9.31784	-0.33276	-0.00638
59	9.31290	-0.32784	-0.00396	9.31054	-0.33020	-0.00633
60	9.39157	-0.19236	-0.00233	9.39018	-0.19375	-0.00371
61	9.48919	-0.03060	-0.00037	9.48897	-0.03082	-0.00059
62	9.28357	-0.27630	-0.00334	9.28158	-0.27830	-0.00533
63	3.78721	-0.08721	-0.02490	3.80483	-0.06960	-0.00728
64	3.79958	-0.08426	-0.02405	3.81660	-0.06724	-0.00703
65	3.80359	-0.07762	-0.02216	3.81927	-0.06194	-0.00648
66	3.77758	-0.09059	-0.02586	3.79588	-0.07229	-0.00756
67	3.78547	-0.12783	-0.03649	3.81129	-0.10201	-0.01067
68	3.79212	-0.13067	-0.03730	3.81851	-0.10428	-0.01091
69	3.74091	-0.21154	-0.06039	3.78364	-0.16881	-0.01766
70	3.78282	-0.06852	-0.01956	3.79666	-0.05468	-0.00572
71	3.80304	-0.05483	-0.01565	3.81411	-0.04375	-0.00458
72	3.78044	-0.09289	-0.02652	3.79920	-0.07412	-0.00775
73	3.78372	-0.08569	-0.02446	3.80103	-0.06838	-0.00715
74	3.80326	-0.04725	-0.01349	3.81281	-0.03771	-0.00394
75	3.80256	-0.04423	-0.01263	3.81149	-0.03529	-0.00369
76	3.80580	-0.03641	-0.01039	3.81316	-0.02905	-0.00304

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.5 The Elasticities with respect to Employment Rates from Model 3 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.22723	-0.10512	-0.02139	0.22580	-0.10655	-0.02282
2	0.25929	-0.06924	-0.01409	0.25835	-0.07018	-0.01503
3	0.32128	-0.01173	-0.00239	0.32112	-0.01189	-0.00255
4	0.32491	-0.00879	-0.00179	0.32479	-0.00891	-0.00191
5	0.32434	-0.00763	-0.00155	0.32424	-0.00774	-0.00166
6	0.32573	-0.00614	-0.00125	0.32564	-0.00622	-0.00133
7	0.32330	-0.00591	-0.00120	0.32322	-0.00599	-0.00128
8	0.32788	-0.00354	-0.00072	0.32784	-0.00359	-0.00077
9	0.31534	-0.01096	-0.00223	0.31519	-0.01111	-0.00238
10	0.32923	-0.00485	-0.00099	0.32917	-0.00491	-0.00105
11	0.32867	-0.00473	-0.00096	0.32861	-0.00479	-0.00103
12	0.32884	-0.00620	-0.00126	0.32876	-0.00629	-0.00135
13	0.33193	-0.00205	-0.00042	0.33190	-0.00208	-0.00044
14	0.33496	-0.00035	-0.00007	0.33495	-0.00036	-0.00008
15	0.32952	-0.00590	-0.00120	0.32944	-0.00598	-0.00128
16	0.32522	-0.00415	-0.00084	0.32516	-0.00421	-0.00090
17	0.32290	-0.00703	-0.00143	0.32281	-0.00712	-0.00153
18	0.32922	-0.00289	-0.00059	0.32918	-0.00293	-0.00063
19	0.32724	-0.00612	-0.00124	0.32716	-0.00620	-0.00133
20	0.32214	-0.00668	-0.00136	0.32205	-0.00677	-0.00145
21	0.32580	-0.00898	-0.00183	0.32568	-0.00911	-0.00195
22	0.32155	-0.00995	-0.00203	0.32142	-0.01009	-0.00216
23	0.32549	-0.00628	-0.00128	0.32541	-0.00637	-0.00136
24	0.31537	-0.00675	-0.00137	0.31527	-0.00685	-0.00147
25	0.33145	-0.00322	-0.00066	0.33141	-0.00327	-0.00070
26	0.30874	-0.00126	-0.00026	0.30872	-0.00127	-0.00027
27	0.08859	-0.00067	-0.00013	0.08855	-0.00071	-0.00018
28	0.08903	-0.00069	-0.00014	0.08899	-0.00073	-0.00018
29	0.09043	-0.00090	-0.00018	0.09038	-0.00096	-0.00024
30	0.09100	-0.00097	-0.00019	0.09094	-0.00103	-0.00026
31	0.08923	-0.00094	-0.00019	0.08917	-0.00100	-0.00025
32	0.08973	-0.00062	-0.00012	0.08969	-0.00066	-0.00016
33	0.09144	-0.00045	-0.00009	0.09141	-0.00048	-0.00012
34	0.09141	-0.00050	-0.00010	0.09138	-0.00053	-0.00013
35	0.09093	-0.00030	-0.00006	0.09091	-0.00031	-0.00008
36	0.08738	-0.00100	-0.00020	0.08731	-0.00107	-0.00027
37	0.08969	-0.00132	-0.00026	0.08961	-0.00140	-0.00035
38	0.08759	-0.00124	-0.00025	0.08751	-0.00132	-0.00033
39	0.09014	-0.00125	-0.00025	0.09006	-0.00133	-0.00033
40	0.09118	-0.00101	-0.00020	0.09111	-0.00107	-0.00027
41	0.09099	-0.00109	-0.00022	0.09092	-0.00116	-0.00029
42	0.08970	-0.00098	-0.00020	0.08964	-0.00104	-0.00026
43	0.08957	-0.00144	-0.00029	0.08948	-0.00154	-0.00038
44	0.23996	-0.01475	-0.00018	0.23985	-0.01486	-0.00028
45	0.23697	-0.01749	-0.00021	0.23685	-0.01761	-0.00034
46	0.24901	-0.00866	-0.00010	0.24895	-0.00872	-0.00017
47	0.25018	-0.00806	-0.00010	0.25013	-0.00812	-0.00016
48	0.25001	-0.00849	-0.00010	0.24995	-0.00856	-0.00016
49	0.25196	-0.00236	-0.00003	0.25195	-0.00238	-0.00005
50	0.24113	-0.01438	-0.00017	0.24103	-0.01448	-0.00028
51	0.24516	-0.00730	-0.00009	0.24511	-0.00736	-0.00014
52	0.25059	-0.00627	-0.00008	0.25055	-0.00632	-0.00012
53	0.22947	-0.02642	-0.00032	0.22927	-0.02661	-0.00051
54	0.24985	-0.00648	-0.00008	0.24981	-0.00652	-0.00012
55	0.24903	-0.00514	-0.00006	0.24900	-0.00517	-0.00010
56	0.25429	-0.00395	-0.00005	0.25426	-0.00398	-0.00008
57	0.23967	-0.01837	-0.00022	0.23954	-0.01851	-0.00035
58	0.24892	-0.00882	-0.00011	0.24886	-0.00889	-0.00017
59	0.24853	-0.00875	-0.00011	0.24846	-0.00881	-0.00017
60	0.25312	-0.00518	-0.00006	0.25309	-0.00522	-0.00010
61	0.25633	-0.00083	-0.00001	0.25632	-0.00083	-0.00002
62	0.25045	-0.00745	-0.00009	0.25039	-0.00751	-0.00014
63	0.09816	-0.00226	-0.00065	0.09861	-0.00180	-0.00019
64	0.10040	-0.00223	-0.00064	0.10085	-0.00178	-0.00019
65	0.09989	-0.00204	-0.00058	0.10031	-0.00163	-0.00017
66	0.09998	-0.00240	-0.00068	0.10047	-0.00191	-0.00020
67	0.09956	-0.00336	-0.00096	0.10024	-0.00268	-0.00028
68	0.09915	-0.00342	-0.00098	0.09984	-0.00273	-0.00029
69	0.09758	-0.00552	-0.00158	0.09869	-0.00440	-0.00046
70	0.10139	-0.00184	-0.00052	0.10177	-0.00147	-0.00015
71	0.10143	-0.00146	-0.00042	0.10173	-0.00117	-0.00012
72	0.10044	-0.00247	-0.00070	0.10094	-0.00197	-0.00021
73	0.10034	-0.00227	-0.00065	0.10080	-0.00181	-0.00019
74	0.10119	-0.00126	-0.00036	0.10145	-0.00100	-0.00010
75	0.10233	-0.00119	-0.00034	0.10257	-0.00095	-0.00010
76	0.10142	-0.00097	-0.00028	0.10162	-0.00077	-0.00008

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.6 The Elasticities with respect to Distances from Model 3 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-2.08733	0.96567	0.19650	-2.07421	0.97879	0.20962
2	-2.70931	0.72348	0.14722	-2.69948	0.73331	0.15705
3	-2.91983	0.10662	0.02169	-2.91838	0.10807	0.02314
4	-2.86984	0.07763	0.01580	-2.86879	0.07869	0.01685
5	-2.71911	0.06399	0.01302	-2.71824	0.06486	0.01389
6	-2.70141	0.05091	0.01036	-2.70071	0.05160	0.01105
7	-3.01131	0.05507	0.01121	-3.01056	0.05582	0.01195
8	-2.80288	0.03027	0.00616	-2.80247	0.03068	0.00657
9	-2.94056	0.10219	0.02079	-2.93917	0.10358	0.02218
10	-2.53074	0.03727	0.00758	-2.53024	0.03778	0.00809
11	-3.50070	0.05036	0.01025	-3.50002	0.05104	0.01093
12	-4.00466	0.07556	0.01538	-4.00364	0.07659	0.01640
13	-4.41679	0.02726	0.00555	-4.41642	0.02763	0.00592
14	-4.88772	0.00515	0.00105	-4.88765	0.00522	0.00112
15	-3.18393	0.05702	0.01160	-3.18315	0.05780	0.01238
16	-3.11552	0.03976	0.00809	-3.11498	0.04030	0.00863
17	-2.80806	0.06110	0.01243	-2.80723	0.06193	0.01326
18	-3.72351	0.03273	0.00666	-3.72306	0.03317	0.00710
19	-3.58248	0.06696	0.01363	-3.58157	0.06787	0.01454
20	-3.73047	0.07732	0.01573	-3.72942	0.07837	0.01678
21	-3.07350	0.08476	0.01725	-3.07235	0.08591	0.01840
22	-3.28735	0.10177	0.02071	-3.28597	0.10315	0.02209
23	-3.20787	0.06191	0.01260	-3.20703	0.06275	0.01344
24	-3.39803	0.07277	0.01481	-3.39705	0.07376	0.01580
25	-3.75109	0.03646	0.00742	-3.75059	0.03695	0.00791
26	-4.70488	0.01914	0.00389	-4.70462	0.01940	0.00415
27	-1.37464	0.01042	0.00209	-1.37398	0.01109	0.00276
28	-1.32911	0.01025	0.00206	-1.32845	0.01091	0.00271
29	-1.20611	0.01200	0.00241	-1.20534	0.01277	0.00318
30	-0.99746	0.01059	0.00213	-0.99678	0.01127	0.00280
31	-1.10361	0.01158	0.00232	-1.10287	0.01232	0.00307
32	-1.32220	0.00915	0.00184	-1.32161	0.00973	0.00242
33	-1.36837	0.00671	0.00135	-1.36794	0.00714	0.00178
34	-1.54643	0.00848	0.00170	-1.54589	0.00902	0.00225
35	-1.88938	0.00614	0.00123	-1.88898	0.00653	0.00163
36	-0.79669	0.00916	0.00184	-0.79610	0.00974	0.00242
37	-0.84439	0.01240	0.00249	-0.84359	0.01320	0.00328
38	-0.91365	0.01298	0.00260	-0.91282	0.01381	0.00344
39	-0.98417	0.01363	0.00273	-0.98330	0.01450	0.00361
40	-0.91061	0.01005	0.00202	-0.90996	0.01069	0.00266
41	-0.82453	0.00989	0.00198	-0.82389	0.01052	0.00262
42	-0.82349	0.00898	0.00180	-0.82291	0.00955	0.00238
43	-0.75213	0.01212	0.00243	-0.75135	0.01289	0.00321

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.83544	0.11283	0.00136	-1.83463	0.11365	0.00218
45	-1.94453	0.14351	0.00173	-1.94350	0.14454	0.00277
46	-2.14827	0.07470	0.00090	-2.14773	0.07524	0.00144
47	-2.43257	0.07835	0.00095	-2.43201	0.07891	0.00151
48	-2.58192	0.08773	0.00106	-2.58129	0.08836	0.00169
49	-2.24724	0.02109	0.00025	-2.24709	0.02124	0.00041
50	-1.74848	0.10426	0.00126	-1.74773	0.10501	0.00201
51	-2.47280	0.07367	0.00089	-2.47227	0.07420	0.00142
52	-2.17598	0.05447	0.00066	-2.17559	0.05486	0.00105
53	-1.71249	0.19717	0.00238	-1.71106	0.19859	0.00380
54	-2.33254	0.06046	0.00073	-2.33210	0.06090	0.00117
55	-2.34086	0.04829	0.00058	-2.34051	0.04864	0.00093
56	-2.62200	0.04073	0.00049	-2.62170	0.04102	0.00079
57	-1.84747	0.14163	0.00171	-1.84645	0.14265	0.00273
58	-2.00648	0.07112	0.00086	-2.00597	0.07164	0.00137
59	-2.01091	0.07079	0.00086	-2.01039	0.07130	0.00137
60	-2.52883	0.05180	0.00063	-2.52846	0.05217	0.00100
61	-2.97439	0.00959	0.00012	-2.97432	0.00966	0.00019
62	-2.62880	0.07824	0.00095	-2.62823	0.07880	0.00151
63	-2.36966	0.05457	0.01558	-2.38068	0.04355	0.00456
64	-2.38502	0.05289	0.01510	-2.39570	0.04221	0.00442
65	-2.39762	0.04893	0.01397	-2.40751	0.03904	0.00408
66	-2.60665	0.06251	0.01784	-2.61928	0.04988	0.00522
67	-2.04622	0.06910	0.01972	-2.06017	0.05514	0.00577
68	-1.93913	0.06682	0.01907	-1.95263	0.05332	0.00558
69	-1.68105	0.09506	0.02714	-1.70025	0.07586	0.00794
70	-2.74553	0.04973	0.01420	-2.75557	0.03969	0.00415
71	-2.75386	0.03970	0.01133	-2.76188	0.03168	0.00331
72	-2.47091	0.06071	0.01733	-2.48317	0.04845	0.00507
73	-2.50516	0.05673	0.01620	-2.51662	0.04527	0.00474
74	-2.89166	0.03592	0.01026	-2.89892	0.02867	0.00300
75	-3.00285	0.03493	0.00997	-3.00991	0.02787	0.00292
76	-3.08569	0.02952	0.00843	-3.09165	0.02356	0.00246

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.7 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.98365	0.45507	0.09260	-0.97747	0.46125	0.09878
2	-1.55636	0.41561	0.08457	-1.55071	0.42125	0.09022
3	-1.48939	0.05438	0.01107	-1.48865	0.05512	0.01181
4	-1.76006	0.04761	0.00969	-1.75941	0.04826	0.01033
5	-1.91378	0.04504	0.00917	-1.91316	0.04565	0.00978
6	-1.97519	0.03722	0.00757	-1.97469	0.03773	0.00808
7	-2.03530	0.03722	0.00757	-2.03480	0.03773	0.00808
8	-2.50326	0.02703	0.00550	-2.50289	0.02740	0.00587
9	-1.57101	0.05460	0.01111	-1.57026	0.05534	0.01185
10	-1.87944	0.02768	0.00563	-1.87906	0.02806	0.00601
11	-2.13668	0.03074	0.00625	-2.13626	0.03115	0.00667
12	-1.56664	0.02956	0.00602	-1.56624	0.02996	0.00642
13	-2.23002	0.01377	0.00280	-2.22983	0.01395	0.00299
14	-3.11208	0.00328	0.00067	-3.11204	0.00332	0.00071
15	-1.90754	0.03416	0.00695	-1.90708	0.03463	0.00742
16	-2.40124	0.03064	0.00624	-2.40082	0.03106	0.00665
17	-2.08589	0.04539	0.00924	-2.08528	0.04601	0.00985
18	-2.13978	0.01881	0.00383	-2.13952	0.01906	0.00408
19	-1.88275	0.03519	0.00716	-1.88227	0.03567	0.00764
20	-1.67759	0.03477	0.00708	-1.67712	0.03524	0.00755
21	-1.41872	0.03912	0.00796	-1.41819	0.03966	0.00849
22	-1.67331	0.05180	0.01054	-1.67261	0.05251	0.01124
23	-1.92484	0.03715	0.00756	-1.92433	0.03765	0.00806
24	-1.94933	0.04175	0.00849	-1.94876	0.04231	0.00906
25	-2.26939	0.02206	0.00449	-2.26909	0.02235	0.00479
26	-2.03016	0.00826	0.00168	-2.03005	0.00837	0.00179
27	-0.55847	0.00424	0.00085	-0.55820	0.00451	0.00112
28	-0.61190	0.00472	0.00095	-0.61160	0.00502	0.00125
29	-0.48925	0.00487	0.00098	-0.48894	0.00518	0.00129
30	-0.58779	0.00624	0.00125	-0.58739	0.00664	0.00165
31	-0.52900	0.00555	0.00111	-0.52864	0.00591	0.00147
32	-0.66308	0.00459	0.00092	-0.66279	0.00488	0.00121
33	-0.90090	0.00442	0.00089	-0.90062	0.00470	0.00117
34	-0.67827	0.00372	0.00075	-0.67803	0.00396	0.00098
35	-0.79368	0.00258	0.00052	-0.79351	0.00274	0.00068
36	-0.69654	0.00801	0.00161	-0.69602	0.00852	0.00212
37	-0.48264	0.00709	0.00142	-0.48218	0.00754	0.00188
38	-0.46929	0.00666	0.00134	-0.46887	0.00709	0.00176
39	-0.39937	0.00553	0.00111	-0.39902	0.00588	0.00146
40	-0.63350	0.00699	0.00140	-0.63305	0.00744	0.00185
41	-0.70429	0.00845	0.00170	-0.70375	0.00899	0.00224
42	-0.75860	0.00827	0.00166	-0.75807	0.00880	0.00219
43	-0.46121	0.00743	0.00149	-0.46074	0.00791	0.00197
44	-2.01957	0.12415	0.00150	-2.01867	0.12505	0.00240
45	-1.62127	0.11965	0.00145	-1.62041	0.12051	0.00231
46	-2.06530	0.07182	0.00087	-2.06478	0.07234	0.00139
47	-2.00192	0.06448	0.00078	-2.00145	0.06494	0.00124
48	-1.97978	0.06727	0.00081	-1.97929	0.06776	0.00130
49	-3.04951	0.02862	0.00035	-3.04931	0.02883	0.00055
50	-2.10894	0.12575	0.00152	-2.10803	0.12666	0.00243
51	-2.00441	0.05972	0.00072	-2.00398	0.06015	0.00115
52	-2.29947	0.05756	0.00070	-2.29905	0.05797	0.00111
53	-1.51742	0.17471	0.00211	-1.51616	0.17597	0.00337
54	-2.27072	0.05886	0.00071	-2.27029	0.05928	0.00114
55	-2.56150	0.05284	0.00064	-2.56112	0.05322	0.00102
56	-2.54458	0.03953	0.00048	-2.54430	0.03981	0.00076
57	-1.80194	0.13813	0.00167	-1.80094	0.13913	0.00267
58	-2.34589	0.08315	0.00101	-2.34529	0.08375	0.00160
59	-2.25807	0.07949	0.00096	-2.25750	0.08006	0.00153
60	-2.42311	0.04963	0.00060	-2.42275	0.04999	0.00096
61	-3.48272	0.01123	0.00014	-3.48264	0.01131	0.00022
62	-2.03902	0.06069	0.00073	-2.03859	0.06112	0.00117
63	-0.75145	0.01730	0.00494	-0.75495	0.01381	0.00144
64	-0.77439	0.01717	0.00490	-0.77786	0.01371	0.00143
65	-0.85647	0.01748	0.00499	-0.86000	0.01395	0.00146
66	-0.57662	0.01383	0.00395	-0.57941	0.01103	0.00115
67	-0.73476	0.02481	0.00708	-0.73977	0.01980	0.00207
68	-0.79717	0.02747	0.00784	-0.80272	0.02192	0.00229
69	-0.60034	0.03395	0.00969	-0.60720	0.02709	0.00283
70	-0.65440	0.01185	0.00338	-0.65679	0.00946	0.00099
71	-0.81105	0.01169	0.00334	-0.81341	0.00933	0.00098
72	-0.62886	0.01545	0.00441	-0.63198	0.01233	0.00129
73	-0.64587	0.01463	0.00418	-0.64883	0.01167	0.00122
74	-0.78621	0.00977	0.00279	-0.78818	0.00779	0.00082
75	-0.77853	0.00906	0.00258	-0.78036	0.00723	0.00076
76	-0.80293	0.00768	0.00219	-0.80448	0.00613	0.00064

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.8 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 1 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.64999	0.30070	0.06119	-0.64590	0.30479	0.06527
2	-0.68698	0.18345	0.03733	-0.68449	0.18594	0.03982
3	-0.61375	0.02241	0.00456	-0.61345	0.02272	0.00486
4	-0.56614	0.01531	0.00312	-0.56593	0.01552	0.00332
5	-0.68467	0.01611	0.00328	-0.68445	0.01633	0.00350
6	-0.81976	0.01545	0.00314	-0.81955	0.01566	0.00335
7	-0.89374	0.01635	0.00333	-0.89351	0.01657	0.00355
8	-0.86092	0.00930	0.00189	-0.86079	0.00942	0.00202
9	-0.74402	0.02586	0.00526	-0.74367	0.02621	0.00561
10	-0.79315	0.01168	0.00238	-0.79299	0.01184	0.00254
11	-0.73500	0.01057	0.00215	-0.73486	0.01072	0.00230
12	-0.65428	0.01235	0.00251	-0.65411	0.01251	0.00268
13	-0.81867	0.00505	0.00103	-0.81860	0.00512	0.00110
14	-1.27732	0.00135	0.00027	-1.27730	0.00136	0.00029
15	-0.69010	0.01236	0.00251	-0.68993	0.01253	0.00268
16	-0.90126	0.01150	0.00234	-0.90110	0.01166	0.00250
17	-0.75115	0.01635	0.00333	-0.75093	0.01657	0.00355
18	-1.12394	0.00988	0.00201	-1.12381	0.01001	0.00214
19	-0.63733	0.01191	0.00242	-0.63717	0.01207	0.00259
20	-0.78195	0.01621	0.00330	-0.78173	0.01643	0.00352
21	-0.71945	0.01984	0.00404	-0.71918	0.02011	0.00431
22	-0.57194	0.01771	0.00360	-0.57170	0.01795	0.00384
23	-0.81220	0.01568	0.00319	-0.81198	0.01589	0.00340
24	-0.84894	0.01818	0.00370	-0.84869	0.01843	0.00395
25	-0.75693	0.00736	0.00150	-0.75683	0.00746	0.00160
26	-0.87150	0.00354	0.00072	-0.87145	0.00359	0.00077
27	-0.20697	0.00157	0.00032	-0.20687	0.00167	0.00042
28	-0.18828	0.00145	0.00029	-0.18818	0.00154	0.00038
29	-0.19412	0.00193	0.00039	-0.19399	0.00205	0.00051
30	-0.25942	0.00276	0.00055	-0.25925	0.00293	0.00073
31	-0.20300	0.00213	0.00043	-0.20286	0.00227	0.00056
32	-0.25488	0.00176	0.00035	-0.25477	0.00188	0.00047
33	-0.32376	0.00159	0.00032	-0.32366	0.00169	0.00042
34	-0.24634	0.00135	0.00027	-0.24625	0.00144	0.00036
35	-0.29242	0.00095	0.00019	-0.29236	0.00101	0.00025
36	-0.25683	0.00295	0.00059	-0.25664	0.00314	0.00078
37	-0.19421	0.00285	0.00057	-0.19402	0.00303	0.00076
38	-0.15481	0.00220	0.00044	-0.15467	0.00234	0.00058
39	-0.19045	0.00264	0.00053	-0.19029	0.00281	0.00070
40	-0.26904	0.00297	0.00060	-0.26885	0.00316	0.00079
41	-0.21258	0.00255	0.00051	-0.21241	0.00271	0.00068
42	-0.23674	0.00258	0.00052	-0.23657	0.00275	0.00068
43	-0.22530	0.00363	0.00073	-0.22507	0.00386	0.00096
44	-0.62991	0.03872	0.00047	-0.62963	0.03900	0.00075
45	-0.65331	0.04822	0.00058	-0.65297	0.04856	0.00093
46	-0.89805	0.03123	0.00038	-0.89783	0.03145	0.00060
47	-0.73504	0.02367	0.00029	-0.73487	0.02384	0.00046
48	-0.54697	0.01859	0.00022	-0.54684	0.01872	0.00036
49	-1.16009	0.01089	0.00013	-1.16001	0.01097	0.00021
50	-0.67551	0.04028	0.00049	-0.67522	0.04057	0.00078
51	-0.70477	0.02100	0.00025	-0.70462	0.02115	0.00041
52	-0.99422	0.02489	0.00030	-0.99404	0.02506	0.00048
53	-0.52864	0.06087	0.00074	-0.52820	0.06130	0.00117
54	-0.80412	0.02084	0.00025	-0.80397	0.02099	0.00040
55	-0.71424	0.01473	0.00018	-0.71413	0.01484	0.00028
56	-0.77693	0.01207	0.00015	-0.77684	0.01216	0.00023
57	-0.61659	0.04727	0.00057	-0.61625	0.04761	0.00091
58	-0.76938	0.02727	0.00033	-0.76919	0.02747	0.00053
59	-0.84871	0.02988	0.00036	-0.84850	0.03009	0.00058
60	-0.70673	0.01448	0.00017	-0.70662	0.01458	0.00028
61	-1.05286	0.00339	0.00004	-1.05283	0.00342	0.00007
62	-0.55917	0.01664	0.00020	-0.55905	0.01676	0.00032
63	-0.25385	0.00585	0.00167	-0.25503	0.00466	0.00049
64	-0.26604	0.00590	0.00168	-0.26724	0.00471	0.00049
65	-0.25595	0.00522	0.00149	-0.25700	0.00417	0.00044
66	-0.15450	0.00371	0.00106	-0.15525	0.00296	0.00031
67	-0.24073	0.00813	0.00232	-0.24237	0.00649	0.00068
68	-0.27300	0.00941	0.00269	-0.27490	0.00751	0.00079
69	-0.24426	0.01381	0.00394	-0.24705	0.01102	0.00115
70	-0.20554	0.00372	0.00106	-0.20629	0.00297	0.00031
71	-0.27812	0.00401	0.00114	-0.27893	0.00320	0.00033
72	-0.21061	0.00517	0.00148	-0.21166	0.00413	0.00043
73	-0.23640	0.00535	0.00153	-0.23748	0.00427	0.00045
74	-0.30719	0.00382	0.00109	-0.30796	0.00305	0.00032
75	-0.27164	0.00316	0.00090	-0.27228	0.00252	0.00026
76	-0.35608	0.00341	0.00097	-0.35677	0.00272	0.00028

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.9 The Elasticities with respect to Wages from Model 2 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	6.29456	-1.72156	-0.27610	5.87876	-2.13736	-0.69190
2	6.59962	-1.46818	-0.23547	6.24501	-1.82278	-0.59007
3	7.85306	-0.13921	-0.02233	7.81943	-0.17284	-0.05595
4	7.78202	-0.13243	-0.02124	7.75003	-0.16442	-0.05323
5	7.75892	-0.13995	-0.02245	7.72512	-0.17375	-0.05625
6	7.75316	-0.13918	-0.02232	7.71954	-0.17279	-0.05594
7	7.84011	-0.12325	-0.01977	7.81034	-0.15302	-0.04954
8	7.80793	-0.13839	-0.02219	7.77450	-0.17181	-0.05562
9	7.87698	-0.12722	-0.02040	7.84625	-0.15795	-0.05113
10	7.54231	-0.11973	-0.01920	7.51339	-0.14865	-0.04812
11	8.03461	-0.12459	-0.01998	8.00452	-0.15468	-0.05007
12	8.12542	-0.09806	-0.01573	8.10174	-0.12174	-0.03941
13	8.12600	-0.07717	-0.01238	8.10736	-0.09581	-0.03102
14	8.09511	-0.05578	-0.00895	8.08164	-0.06926	-0.02242
15	7.98392	-0.14303	-0.02294	7.94937	-0.17758	-0.05749
16	7.91290	-0.13466	-0.02160	7.88038	-0.16719	-0.05412
17	7.87899	-0.15471	-0.02481	7.84163	-0.19208	-0.06218
18	8.07035	-0.10984	-0.01762	8.04382	-0.13637	-0.04415
19	8.03222	-0.11777	-0.01889	8.00378	-0.14621	-0.04733
20	8.10776	-0.11556	-0.01853	8.07985	-0.14347	-0.04644
21	7.95662	-0.13904	-0.02230	7.92303	-0.17262	-0.05588
22	7.94239	-0.12404	-0.01989	7.91243	-0.15400	-0.04985
23	7.93443	-0.13300	-0.02133	7.90231	-0.16513	-0.05345
24	8.02110	-0.13059	-0.02094	7.98956	-0.16213	-0.05248
25	8.04164	-0.10886	-0.01746	8.01535	-0.13515	-0.04375
26	7.94531	-0.05328	-0.00855	7.93245	-0.06615	-0.02141
27	3.65247	-0.05533	-0.01579	3.66128	-0.04651	-0.00698
28	3.65774	-0.05871	-0.01675	3.66709	-0.04936	-0.00740
29	3.65228	-0.06679	-0.01906	3.66292	-0.05615	-0.00842
30	3.64831	-0.08469	-0.02417	3.66180	-0.07121	-0.01068
31	3.66723	-0.07692	-0.02195	3.67948	-0.06467	-0.00970
32	3.65074	-0.05860	-0.01672	3.66008	-0.04927	-0.00739
33	3.65010	-0.05584	-0.01593	3.65899	-0.04695	-0.00704
34	3.65094	-0.04551	-0.01299	3.65819	-0.03826	-0.00574
35	3.64437	-0.03135	-0.00894	3.64936	-0.02635	-0.00395
36	3.64707	-0.11119	-0.03173	3.66477	-0.09348	-0.01402
37	3.65419	-0.10737	-0.03064	3.67129	-0.09027	-0.01354
38	3.65859	-0.09630	-0.02748	3.67393	-0.08096	-0.01214
39	3.65350	-0.08730	-0.02491	3.66741	-0.07339	-0.01101
40	3.64907	-0.09403	-0.02683	3.66405	-0.07905	-0.01186
41	3.65048	-0.10486	-0.02992	3.66718	-0.08816	-0.01322
42	3.64768	-0.10510	-0.02999	3.66442	-0.08836	-0.01325
43	3.64269	-0.11297	-0.03223	3.66068	-0.09498	-0.01424
44	7.34274	-0.45146	-0.05646	7.38900	-0.40520	-0.01020
45	7.40849	-0.39351	-0.04921	7.44882	-0.35318	-0.00889
46	7.41072	-0.32656	-0.04084	7.44419	-0.29310	-0.00738
47	7.46901	-0.24903	-0.03115	7.49453	-0.22351	-0.00563
48	7.49268	-0.21213	-0.02653	7.51441	-0.19039	-0.00479
49	7.45423	-0.31019	-0.03879	7.48602	-0.27840	-0.00701
50	7.33242	-0.45004	-0.05628	7.37854	-0.40393	-0.01017
51	7.48544	-0.23760	-0.02972	7.50978	-0.21325	-0.00537
52	7.44975	-0.29693	-0.03714	7.48017	-0.26650	-0.00671
53	7.37443	-0.41727	-0.05219	7.41719	-0.37452	-0.00943
54	7.47715	-0.26014	-0.03253	7.50381	-0.23348	-0.00588
55	7.48778	-0.25969	-0.03248	7.51439	-0.23308	-0.00587
56	7.50005	-0.19967	-0.02497	7.52051	-0.17921	-0.00451
57	7.37841	-0.38627	-0.04831	7.41799	-0.34669	-0.00873
58	7.40659	-0.36254	-0.04534	7.44374	-0.32539	-0.00819
59	7.40479	-0.35097	-0.04389	7.44075	-0.31500	-0.00793
60	7.49100	-0.21846	-0.02732	7.51339	-0.19607	-0.00494
61	7.53575	-0.15459	-0.01933	7.55160	-0.13875	-0.00349
62	7.52301	-0.20263	-0.02534	7.54378	-0.18186	-0.00458
63	4.10253	-0.16478	-0.05561	4.14505	-0.12227	-0.01310
64	4.10441	-0.16122	-0.05441	4.14601	-0.11963	-0.01281
65	4.11101	-0.16057	-0.05419	4.15244	-0.11914	-0.01276
66	4.11965	-0.12158	-0.04103	4.15101	-0.09021	-0.00966
67	4.06771	-0.23940	-0.08080	4.12948	-0.17764	-0.01903
68	4.05703	-0.27959	-0.09436	4.12916	-0.20745	-0.02222
69	3.99716	-0.36659	-0.12372	4.09174	-0.27201	-0.02914
70	4.11072	-0.10385	-0.03505	4.13751	-0.07706	-0.00825
71	4.11897	-0.10494	-0.03542	4.14605	-0.07786	-0.00834
72	4.10634	-0.14331	-0.04836	4.14331	-0.10633	-0.01139
73	4.10652	-0.13823	-0.04665	4.14218	-0.10257	-0.01099
74	4.11426	-0.08931	-0.03014	4.13730	-0.06627	-0.00710
75	4.11700	-0.07884	-0.02661	4.13734	-0.05850	-0.00627
76	4.12250	-0.07268	-0.02453	4.14125	-0.05393	-0.00578

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.10 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.04013	0.01098	0.00176	-0.03748	0.01363	0.00441
2	-0.04153	0.00924	0.00148	-0.03930	0.01147	0.00371
3	-0.05007	0.00089	0.00014	-0.04986	0.00110	0.00036
4	-0.04991	0.00085	0.00014	-0.04971	0.00105	0.00034
5	-0.05012	0.00090	0.00014	-0.04990	0.00112	0.00036
6	-0.05021	0.00090	0.00014	-0.05000	0.00112	0.00036
7	-0.05003	0.00079	0.00013	-0.04984	0.00098	0.00032
8	-0.05031	0.00089	0.00014	-0.05009	0.00111	0.00036
9	-0.05056	0.00082	0.00013	-0.05036	0.00101	0.00033
10	-0.05010	0.00080	0.00013	-0.04991	0.00099	0.00032
11	-0.05024	0.00078	0.00012	-0.05005	0.00097	0.00031
12	-0.05054	0.00061	0.00010	-0.05039	0.00076	0.00025
13	-0.05075	0.00048	0.00008	-0.05063	0.00060	0.00019
14	-0.05107	0.00035	0.00006	-0.05099	0.00044	0.00014
15	-0.05039	0.00090	0.00014	-0.05018	0.00112	0.00036
16	-0.05026	0.00086	0.00014	-0.05005	0.00106	0.00034
17	-0.05045	0.00099	0.00016	-0.05021	0.00123	0.00040
18	-0.05018	0.00068	0.00011	-0.05001	0.00085	0.00027
19	-0.05001	0.00073	0.00012	-0.04983	0.00091	0.00029
20	-0.05048	0.00072	0.00012	-0.05031	0.00089	0.00029
21	-0.05043	0.00088	0.00014	-0.05022	0.00109	0.00035
22	-0.04987	0.00078	0.00012	-0.04968	0.00097	0.00031
23	-0.05004	0.00084	0.00013	-0.04983	0.00104	0.00034
24	-0.05023	0.00082	0.00013	-0.05003	0.00102	0.00033
25	-0.04991	0.00068	0.00011	-0.04975	0.00084	0.00027
26	-0.04902	0.00033	0.00005	-0.04894	0.00041	0.00013
27	-0.02482	0.00038	0.00011	-0.02488	0.00032	0.00005
28	-0.02453	0.00039	0.00011	-0.02459	0.00033	0.00005
29	-0.02480	0.00045	0.00013	-0.02487	0.00038	0.00006
30	-0.02480	0.00058	0.00016	-0.02490	0.00048	0.00007
31	-0.02405	0.00050	0.00014	-0.02413	0.00042	0.00006
32	-0.02481	0.00040	0.00011	-0.02487	0.00033	0.00005
33	-0.02499	0.00038	0.00011	-0.02505	0.00032	0.00005
34	-0.02495	0.00031	0.00009	-0.02500	0.00026	0.00004
35	-0.02496	0.00021	0.00006	-0.02499	0.00018	0.00003
36	-0.02446	0.00075	0.00021	-0.02458	0.00063	0.00009
37	-0.02425	0.00071	0.00020	-0.02436	0.00060	0.00009
38	-0.02420	0.00064	0.00018	-0.02430	0.00054	0.00008
39	-0.02450	0.00059	0.00017	-0.02459	0.00049	0.00007
40	-0.02464	0.00064	0.00018	-0.02474	0.00053	0.00008
41	-0.02447	0.00070	0.00020	-0.02458	0.00059	0.00009
42	-0.02453	0.00071	0.00020	-0.02464	0.00059	0.00009
43	-0.02464	0.00076	0.00022	-0.02476	0.00064	0.00010

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.05003	0.00308	0.00038	-0.05035	0.00276	0.00007
45	-0.04961	0.00264	0.00033	-0.04988	0.00237	0.00006
46	-0.05121	0.00226	0.00028	-0.05144	0.00203	0.00005
47	-0.05165	0.00172	0.00022	-0.05183	0.00155	0.00004
48	-0.05201	0.00147	0.00018	-0.05216	0.00132	0.00003
49	-0.05046	0.00210	0.00026	-0.05067	0.00188	0.00005
50	-0.05011	0.00308	0.00038	-0.05042	0.00276	0.00007
51	-0.05142	0.00163	0.00020	-0.05159	0.00146	0.00004
52	-0.05086	0.00203	0.00025	-0.05107	0.00182	0.00005
53	-0.04986	0.00282	0.00035	-0.05015	0.00253	0.00006
54	-0.05099	0.00177	0.00022	-0.05117	0.00159	0.00004
55	-0.05066	0.00176	0.00022	-0.05084	0.00158	0.00004
56	-0.05189	0.00138	0.00017	-0.05203	0.00124	0.00003
57	-0.05057	0.00265	0.00033	-0.05084	0.00238	0.00006
58	-0.05046	0.00247	0.00031	-0.05072	0.00222	0.00006
59	-0.05080	0.00241	0.00030	-0.05104	0.00216	0.00005
60	-0.05184	0.00151	0.00019	-0.05199	0.00136	0.00003
61	-0.05210	0.00107	0.00013	-0.05220	0.00096	0.00002
62	-0.05124	0.00138	0.00017	-0.05138	0.00124	0.00003
63	-0.02718	0.00109	0.00037	-0.02746	0.00081	0.00009
64	-0.02755	0.00108	0.00037	-0.02783	0.00080	0.00009
65	-0.02732	0.00107	0.00036	-0.02759	0.00079	0.00008
66	-0.02774	0.00082	0.00028	-0.02795	0.00061	0.00007
67	-0.02712	0.00160	0.00054	-0.02753	0.00118	0.00013
68	-0.02656	0.00183	0.00062	-0.02703	0.00136	0.00015
69	-0.02627	0.00241	0.00081	-0.02689	0.00179	0.00019
70	-0.02767	0.00070	0.00024	-0.02785	0.00052	0.00006
71	-0.02776	0.00071	0.00024	-0.02795	0.00052	0.00006
72	-0.02765	0.00096	0.00033	-0.02790	0.00072	0.00008
73	-0.02755	0.00093	0.00031	-0.02779	0.00069	0.00007
74	-0.02805	0.00061	0.00021	-0.02821	0.00045	0.00005
75	-0.02809	0.00054	0.00018	-0.02823	0.00040	0.00004
76	-0.02767	0.00049	0.00016	-0.02780	0.00036	0.00004

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.11 The Elasticities with respect to Distances from Model 2 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.37966	0.37734	0.06052	-1.28852	0.46847	0.15165
2	-1.61530	0.35935	0.05763	-1.52851	0.44614	0.14442
3	-1.71787	0.03045	0.00488	-1.71052	0.03781	0.01224
4	-1.68223	0.02863	0.00459	-1.67531	0.03554	0.01151
5	-1.60881	0.02902	0.00465	-1.60180	0.03603	0.01166
6	-1.60709	0.02885	0.00463	-1.60012	0.03582	0.01159
7	-1.80928	0.02844	0.00456	-1.80241	0.03531	0.01143
8	-1.67268	0.02965	0.00475	-1.66552	0.03681	0.01192
9	-1.82200	0.02943	0.00472	-1.81490	0.03653	0.01183
10	-1.50288	0.02386	0.00383	-1.49712	0.02962	0.00959
11	-2.01558	0.03126	0.00501	-2.00804	0.03880	0.01256
12	-2.33018	0.02812	0.00451	-2.32339	0.03491	0.01130
13	-2.55073	0.02422	0.00389	-2.54488	0.03008	0.00974
14	-2.82123	0.01944	0.00312	-2.81654	0.02414	0.00781
15	-1.83938	0.03295	0.00528	-1.83142	0.04091	0.01324
16	-1.81275	0.03085	0.00495	-1.80530	0.03830	0.01240
17	-1.65637	0.03252	0.00522	-1.64852	0.04038	0.01307
18	-2.16707	0.02949	0.00473	-2.15995	0.03662	0.01185
19	-2.06285	0.03025	0.00485	-2.05554	0.03755	0.01216
20	-2.16305	0.03083	0.00494	-2.15560	0.03828	0.01239
21	-1.83344	0.03204	0.00514	-1.82570	0.03978	0.01288
22	-1.91748	0.02995	0.00480	-1.91024	0.03718	0.01204
23	-1.84761	0.03097	0.00497	-1.84013	0.03845	0.01245
24	-1.95949	0.03190	0.00512	-1.95178	0.03961	0.01282
25	-2.14347	0.02902	0.00465	-2.13646	0.03602	0.01166
26	-2.69939	0.01810	0.00290	-2.69501	0.02247	0.00728
27	-1.50882	0.02286	0.00652	-1.51246	0.01922	0.00288
28	-1.46016	0.02344	0.00669	-1.46390	0.01970	0.00295
29	-1.33324	0.02438	0.00696	-1.33713	0.02050	0.00307
30	-1.11185	0.02581	0.00737	-1.11596	0.02170	0.00325
31	-1.22322	0.02566	0.00732	-1.22731	0.02157	0.00323
32	-1.45281	0.02332	0.00665	-1.45653	0.01961	0.00294
33	-1.49701	0.02290	0.00653	-1.50066	0.01925	0.00289
34	-1.69145	0.02108	0.00602	-1.69481	0.01773	0.00266
35	-2.04155	0.01756	0.00501	-2.04435	0.01476	0.00221
36	-0.87111	0.02656	0.00758	-0.87534	0.02233	0.00335
37	-0.91027	0.02675	0.00763	-0.91453	0.02249	0.00337
38	-1.01095	0.02661	0.00759	-1.01519	0.02237	0.00335
39	-1.09151	0.02608	0.00744	-1.09566	0.02193	0.00329
40	-1.01973	0.02628	0.00750	-1.02392	0.02209	0.00331
41	-0.92601	0.02660	0.00759	-0.93025	0.02236	0.00335
42	-0.92053	0.02652	0.00757	-0.92476	0.02230	0.00334
43	-0.85189	0.02642	0.00754	-0.85609	0.02221	0.00333
44	-1.50829	0.09274	0.01160	-1.51779	0.08323	0.00210
45	-1.65991	0.08817	0.01103	-1.66895	0.07913	0.00199
46	-1.78179	0.07852	0.00982	-1.78983	0.07047	0.00177
47	-2.04163	0.06807	0.00851	-2.04860	0.06110	0.00154
48	-2.19293	0.06209	0.00776	-2.19929	0.05572	0.00140
49	-1.86565	0.07763	0.00971	-1.87361	0.06968	0.00175
50	-1.49886	0.09200	0.01151	-1.50829	0.08257	0.00208
51	-2.09610	0.06653	0.00832	-2.10292	0.05972	0.00150
52	-1.89123	0.07538	0.00943	-1.89895	0.06765	0.00170
53	-1.58756	0.08983	0.01123	-1.59676	0.08063	0.00203
54	-2.01819	0.07022	0.00878	-2.02539	0.06302	0.00159
55	-2.03152	0.07046	0.00881	-2.03874	0.06324	0.00159
56	-2.25008	0.05990	0.00749	-2.25622	0.05377	0.00135
57	-1.63781	0.08574	0.01072	-1.64660	0.07696	0.00194
58	-1.70862	0.08364	0.01046	-1.71719	0.07506	0.00189
59	-1.72746	0.08188	0.01024	-1.73585	0.07349	0.00185
60	-2.16778	0.06322	0.00791	-2.17426	0.05674	0.00143
61	-2.50403	0.05137	0.00642	-2.50930	0.04611	0.00116
62	-2.26425	0.06099	0.00763	-2.27050	0.05474	0.00138
63	-2.43937	0.09798	0.03307	-2.46465	0.07270	0.00779
64	-2.46009	0.09663	0.03261	-2.48502	0.07170	0.00768
65	-2.47185	0.09654	0.03258	-2.49676	0.07164	0.00767
66	-2.72838	0.08052	0.02717	-2.74915	0.05974	0.00640
67	-2.08947	0.12298	0.04150	-2.12120	0.09125	0.00977
68	-1.95893	0.13500	0.04556	-1.99376	0.10017	0.01073
69	-1.70016	0.15593	0.05262	-1.74039	0.11570	0.01239
70	-2.86141	0.07229	0.02440	-2.88006	0.05364	0.00575
71	-2.86185	0.07291	0.02461	-2.88066	0.05410	0.00580
72	-2.56529	0.08952	0.03021	-2.58839	0.06643	0.00712
73	-2.59752	0.08744	0.02951	-2.62008	0.06488	0.00695
74	-3.00542	0.06524	0.02202	-3.02225	0.04841	0.00519
75	-3.12598	0.05986	0.02020	-3.14142	0.04442	0.00476
76	-3.21027	0.05659	0.01910	-3.22487	0.04199	0.00450

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.12 The Elasticities with respect to Wages from Model 3 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	6.88142	-1.73486	-0.25815	6.49676	-2.11952	-0.64281
2	6.88629	-1.78555	-0.26569	6.49039	-2.18145	-0.66159
3	8.23243	-0.35822	-0.05330	8.15301	-0.43765	-0.13273
4	8.27037	-0.23664	-0.03521	8.21790	-0.28911	-0.08768
5	8.36684	-0.12343	-0.01837	8.33947	-0.15079	-0.04573
6	8.42897	-0.05427	-0.00807	8.41694	-0.06630	-0.02011
7	8.48549	-0.07409	-0.01103	8.46906	-0.09052	-0.02745
8	8.43498	-0.10628	-0.01581	8.41142	-0.12984	-0.03938
9	8.54073	-0.06274	-0.00934	8.52682	-0.07665	-0.02325
10	8.02427	-0.21143	-0.03146	7.97739	-0.25831	-0.07834
11	8.45438	-0.31571	-0.04698	8.38438	-0.38570	-0.11698
12	8.71487	-0.12430	-0.01850	8.68731	-0.15186	-0.04606
13	8.73055	-0.08680	-0.01292	8.71131	-0.10604	-0.03216
14	8.71576	-0.04540	-0.00675	8.70569	-0.05546	-0.01682
15	8.54289	-0.19253	-0.02865	8.50020	-0.23522	-0.07134
16	8.52632	-0.12377	-0.01842	8.49888	-0.15121	-0.04586
17	8.56800	-0.06719	-0.01000	8.55310	-0.08209	-0.02490
18	8.75928	-0.03337	-0.00497	8.75188	-0.04077	-0.01236
19	8.57108	-0.18910	-0.02814	8.52915	-0.23103	-0.07007
20	8.74881	-0.09019	-0.01342	8.72882	-0.11018	-0.03342
21	8.54852	-0.15326	-0.02281	8.51453	-0.18724	-0.05679
22	8.44362	-0.22675	-0.03374	8.39334	-0.27702	-0.08401
23	8.57764	-0.09381	-0.01396	8.55684	-0.11461	-0.03476
24	8.70599	-0.05602	-0.00834	8.69357	-0.06844	-0.02076
25	8.68383	-0.07690	-0.01144	8.66678	-0.09395	-0.02849
26	8.56823	-0.02923	-0.00435	8.56175	-0.03571	-0.01083
27	3.69920	-0.06448	-0.01828	3.70932	-0.05435	-0.00815
28	3.70149	-0.07096	-0.02012	3.71264	-0.05982	-0.00897
29	3.70832	-0.06680	-0.01894	3.71881	-0.05631	-0.00844
30	3.70563	-0.08362	-0.02371	3.71877	-0.07049	-0.01057
31	3.71662	-0.08395	-0.02380	3.72981	-0.07076	-0.01061
32	3.70872	-0.05652	-0.01602	3.71760	-0.04764	-0.00714
33	3.71342	-0.04836	-0.01371	3.72102	-0.04077	-0.00611
34	3.71900	-0.03316	-0.00940	3.72421	-0.02795	-0.00419
35	3.71052	-0.02058	-0.00584	3.71375	-0.01735	-0.00260
36	3.70388	-0.11101	-0.03147	3.72132	-0.09357	-0.01403
37	3.74260	-0.07564	-0.02144	3.75448	-0.06376	-0.00956
38	3.66796	-0.14352	-0.04069	3.69050	-0.12098	-0.01814
39	3.71582	-0.08135	-0.02306	3.72860	-0.06858	-0.01028
40	3.68076	-0.11875	-0.03366	3.69941	-0.10010	-0.01501
41	3.69332	-0.11862	-0.03363	3.71195	-0.09998	-0.01499
42	3.70769	-0.10165	-0.02882	3.72365	-0.08568	-0.01285
43	3.70835	-0.10391	-0.02946	3.72467	-0.08759	-0.01313

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	6.05129	-0.33109	-0.05611	6.09730	-0.28508	-0.01010
45	6.20792	-0.18085	-0.03065	6.23305	-0.15572	-0.00552
46	6.21793	-0.11784	-0.01997	6.23431	-0.10147	-0.00360
47	6.18953	-0.13050	-0.02211	6.20766	-0.11236	-0.00398
48	5.88284	-0.42634	-0.07225	5.94208	-0.36710	-0.01301
49	6.28765	-0.07035	-0.01192	6.29743	-0.06057	-0.00215
50	6.11403	-0.25875	-0.04385	6.14998	-0.22279	-0.00789
51	6.09564	-0.22848	-0.03872	6.12739	-0.19673	-0.00697
52	6.16938	-0.17409	-0.02950	6.19357	-0.14989	-0.00531
53	5.82381	-0.55654	-0.09432	5.90114	-0.47920	-0.01698
54	6.07706	-0.25872	-0.04385	6.11301	-0.22277	-0.00789
55	6.13600	-0.20812	-0.03527	6.16492	-0.17920	-0.00635
56	6.02019	-0.28483	-0.04827	6.05977	-0.24525	-0.00869
57	6.08052	-0.27770	-0.04706	6.11911	-0.23911	-0.00847
58	6.14016	-0.22170	-0.03757	6.17097	-0.19089	-0.00676
59	6.13403	-0.21687	-0.03675	6.16417	-0.18673	-0.00662
60	6.16296	-0.15003	-0.02543	6.18381	-0.12918	-0.00458
61	6.22766	-0.06968	-0.01181	6.23734	-0.06000	-0.00213
62	6.17409	-0.15215	-0.02578	6.19524	-0.13101	-0.00464
63	4.55798	-0.16402	-0.04638	4.59328	-0.12872	-0.01108
64	4.46498	-0.25517	-0.07215	4.51989	-0.20026	-0.01724
65	4.50992	-0.21680	-0.06130	4.55658	-0.17015	-0.01465
66	4.38292	-0.31022	-0.08771	4.44967	-0.24346	-0.02096
67	4.41156	-0.35449	-0.10023	4.48784	-0.27820	-0.02395
68	4.42378	-0.37491	-0.10601	4.50446	-0.29423	-0.02533
69	4.50686	-0.32185	-0.09100	4.57612	-0.25259	-0.02174
70	4.54758	-0.11607	-0.03282	4.57256	-0.09109	-0.00784
71	4.57951	-0.09447	-0.02671	4.59984	-0.07414	-0.00638
72	4.52280	-0.17965	-0.05080	4.56146	-0.14099	-0.01214
73	4.56492	-0.13212	-0.03736	4.59335	-0.10369	-0.00892
74	4.60085	-0.05063	-0.01431	4.61174	-0.03973	-0.00342
75	4.59478	-0.04813	-0.01361	4.60514	-0.03777	-0.00325
76	4.61478	-0.02740	-0.00775	4.62068	-0.02151	-0.00185

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.13 The Elasticities with respect to Employment Rates from Model 3 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.09068	-0.02286	-0.00340	0.08561	-0.02793	-0.00847
2	0.08957	-0.02322	-0.00346	0.08442	-0.02837	-0.00861
3	0.10849	-0.00472	-0.00070	0.10744	-0.00577	-0.00175
4	0.10963	-0.00314	-0.00047	0.10893	-0.00383	-0.00116
5	0.11170	-0.00165	-0.00025	0.11134	-0.00201	-0.00061
6	0.11282	-0.00073	-0.00011	0.11266	-0.00089	-0.00027
7	0.11192	-0.00098	-0.00015	0.11170	-0.00119	-0.00036
8	0.11232	-0.00142	-0.00021	0.11201	-0.00173	-0.00052
9	0.11330	-0.00083	-0.00012	0.11311	-0.00102	-0.00031
10	0.11015	-0.00290	-0.00043	0.10951	-0.00355	-0.00108
11	0.10925	-0.00408	-0.00061	0.10835	-0.00498	-0.00151
12	0.11202	-0.00160	-0.00024	0.11166	-0.00195	-0.00059
13	0.11268	-0.00112	-0.00017	0.11243	-0.00137	-0.00042
14	0.11365	-0.00059	-0.00009	0.11351	-0.00072	-0.00022
15	0.11144	-0.00251	-0.00037	0.11088	-0.00307	-0.00093
16	0.11191	-0.00162	-0.00024	0.11155	-0.00198	-0.00060
17	0.11337	-0.00089	-0.00013	0.11318	-0.00109	-0.00033
18	0.11255	-0.00043	-0.00006	0.11246	-0.00052	-0.00016
19	0.11029	-0.00243	-0.00036	0.10975	-0.00297	-0.00090
20	0.11258	-0.00116	-0.00017	0.11233	-0.00142	-0.00043
21	0.11198	-0.00201	-0.00030	0.11153	-0.00245	-0.00074
22	0.10957	-0.00294	-0.00044	0.10891	-0.00359	-0.00109
23	0.11179	-0.00122	-0.00018	0.11152	-0.00149	-0.00045
24	0.11267	-0.00072	-0.00011	0.11251	-0.00089	-0.00027
25	0.11138	-0.00099	-0.00015	0.11116	-0.00121	-0.00037
26	0.10925	-0.00037	-0.00006	0.10916	-0.00046	-0.00014
27	0.05195	-0.00091	-0.00026	0.05209	-0.00076	-0.00011
28	0.05129	-0.00098	-0.00028	0.05145	-0.00083	-0.00012
29	0.05204	-0.00094	-0.00027	0.05219	-0.00079	-0.00012
30	0.05207	-0.00118	-0.00033	0.05225	-0.00099	-0.00015
31	0.05037	-0.00114	-0.00032	0.05055	-0.00096	-0.00014
32	0.05208	-0.00079	-0.00022	0.05221	-0.00067	-0.00010
33	0.05253	-0.00068	-0.00019	0.05264	-0.00058	-0.00009
34	0.05253	-0.00047	-0.00013	0.05261	-0.00039	-0.00006
35	0.05251	-0.00029	-0.00008	0.05256	-0.00025	-0.00004
36	0.05135	-0.00154	-0.00044	0.05159	-0.00130	-0.00019
37	0.05133	-0.00104	-0.00029	0.05149	-0.00087	-0.00013
38	0.05014	-0.00196	-0.00056	0.05045	-0.00165	-0.00025
39	0.05149	-0.00113	-0.00032	0.05167	-0.00095	-0.00014
40	0.05137	-0.00166	-0.00047	0.05163	-0.00140	-0.00021
41	0.05116	-0.00164	-0.00047	0.05142	-0.00138	-0.00021
42	0.05153	-0.00141	-0.00040	0.05175	-0.00119	-0.00018
43	0.05184	-0.00145	-0.00041	0.05206	-0.00122	-0.00018

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	0.08521	-0.00466	-0.00079	0.08586	-0.00401	-0.00014
45	0.08592	-0.00250	-0.00042	0.08626	-0.00216	-0.00008
46	0.08879	-0.00168	-0.00029	0.08903	-0.00145	-0.00005
47	0.08846	-0.00186	-0.00032	0.08872	-0.00161	-0.00006
48	0.08440	-0.00612	-0.00104	0.08525	-0.00527	-0.00019
49	0.08796	-0.00098	-0.00017	0.08810	-0.00085	-0.00003
50	0.08635	-0.00365	-0.00062	0.08685	-0.00315	-0.00011
51	0.08654	-0.00324	-0.00055	0.08699	-0.00279	-0.00010
52	0.08705	-0.00246	-0.00042	0.08739	-0.00212	-0.00007
53	0.08138	-0.00778	-0.00132	0.08246	-0.00670	-0.00024
54	0.08565	-0.00365	-0.00062	0.08616	-0.00314	-0.00011
55	0.08580	-0.00291	-0.00049	0.08620	-0.00251	-0.00009
56	0.08608	-0.00407	-0.00069	0.08664	-0.00351	-0.00012
57	0.08612	-0.00393	-0.00067	0.08667	-0.00339	-0.00012
58	0.08646	-0.00312	-0.00053	0.08689	-0.00269	-0.00010
59	0.08696	-0.00307	-0.00052	0.08739	-0.00265	-0.00009
60	0.08814	-0.00215	-0.00036	0.08844	-0.00185	-0.00007
61	0.08898	-0.00100	-0.00017	0.08911	-0.00086	-0.00003
62	0.08691	-0.00214	-0.00036	0.08720	-0.00184	-0.00007
63	0.06241	-0.00225	-0.00063	0.06289	-0.00176	-0.00015
64	0.06195	-0.00354	-0.00100	0.06271	-0.00278	-0.00024
65	0.06194	-0.00298	-0.00084	0.06258	-0.00234	-0.00020
66	0.06099	-0.00432	-0.00122	0.06192	-0.00339	-0.00029
67	0.06078	-0.00488	-0.00138	0.06183	-0.00383	-0.00033
68	0.05986	-0.00507	-0.00143	0.06095	-0.00398	-0.00034
69	0.06121	-0.00437	-0.00124	0.06215	-0.00343	-0.00030
70	0.06327	-0.00161	-0.00046	0.06362	-0.00127	-0.00011
71	0.06380	-0.00132	-0.00037	0.06408	-0.00103	-0.00009
72	0.06293	-0.00250	-0.00071	0.06347	-0.00196	-0.00017
73	0.06329	-0.00183	-0.00052	0.06368	-0.00144	-0.00012
74	0.06483	-0.00071	-0.00020	0.06498	-0.00056	-0.00005
75	0.06479	-0.00068	-0.00019	0.06494	-0.00053	-0.00005
76	0.06402	-0.00038	-0.00011	0.06410	-0.00030	-0.00003

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.14 The Elasticities with respect to Distances from Model 3 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.49190	0.37612	0.05597	-1.40851	0.45952	0.13936
2	-1.66715	0.43228	0.06432	-1.57131	0.52812	0.16017
3	-1.78130	0.07751	0.01153	-1.76411	0.09470	0.02872
4	-1.76837	0.05060	0.00753	-1.75715	0.06182	0.01875
5	-1.71601	0.02531	0.00377	-1.71039	0.03093	0.00938
6	-1.72819	0.01113	0.00166	-1.72572	0.01359	0.00412
7	-1.93694	0.01691	0.00252	-1.93319	0.02066	0.00627
8	-1.78738	0.02252	0.00335	-1.78238	0.02751	0.00834
9	-1.95407	0.01435	0.00214	-1.95089	0.01754	0.00532
10	-1.58154	0.04167	0.00620	-1.57231	0.05091	0.01544
11	-2.09785	0.07834	0.01166	-2.08048	0.09571	0.02903
12	-2.47207	0.03526	0.00525	-2.46425	0.04308	0.01306
13	-2.71072	0.02695	0.00401	-2.70475	0.03292	0.00999
14	-3.00453	0.01565	0.00233	-3.00106	0.01912	0.00580
15	-1.94677	0.04387	0.00653	-1.93704	0.05360	0.01626
16	-1.93206	0.02805	0.00417	-1.92584	0.03426	0.01039
17	-1.78165	0.01397	0.00208	-1.77855	0.01707	0.00518
18	-2.32651	0.00886	0.00132	-2.32454	0.01083	0.00328
19	-2.17732	0.04804	0.00715	-2.16667	0.05869	0.01780
20	-2.30871	0.02380	0.00354	-2.30343	0.02908	0.00882
21	-1.94843	0.03493	0.00520	-1.94068	0.04268	0.01294
22	-2.01634	0.05415	0.00806	-2.00433	0.06615	0.02006
23	-1.97569	0.02161	0.00322	-1.97090	0.02640	0.00801
24	-2.10369	0.01354	0.00201	-2.10069	0.01654	0.00502
25	-2.28950	0.02027	0.00302	-2.28500	0.02477	0.00751
26	-2.87939	0.00982	0.00146	-2.87721	0.01200	0.00364
27	-1.51152	0.02635	0.00747	-1.51565	0.02221	0.00333
28	-1.46157	0.02802	0.00794	-1.46598	0.02362	0.00354
29	-1.33899	0.02412	0.00684	-1.34278	0.02033	0.00305
30	-1.11705	0.02521	0.00715	-1.12101	0.02125	0.00319
31	-1.22623	0.02770	0.00785	-1.23058	0.02335	0.00350
32	-1.45985	0.02225	0.00631	-1.46335	0.01875	0.00281
33	-1.50644	0.01962	0.00556	-1.50952	0.01654	0.00248
34	-1.70426	0.01519	0.00431	-1.70665	0.01281	0.00192
35	-2.05603	0.01141	0.00323	-2.05782	0.00961	0.00144
36	-0.87507	0.02623	0.00744	-0.87919	0.02211	0.00332
37	-0.92216	0.01864	0.00528	-0.92509	0.01571	0.00236
38	-1.00253	0.03923	0.01112	-1.00869	0.03307	0.00496
39	-1.09807	0.02404	0.00682	-1.10184	0.02026	0.00304
40	-1.01741	0.03282	0.00931	-1.02257	0.02767	0.00415
41	-0.92670	0.02976	0.00844	-0.93137	0.02509	0.00376
42	-0.92551	0.02537	0.00719	-0.92949	0.02139	0.00321
43	-0.85782	0.02404	0.00681	-0.86159	0.02026	0.00304
44	-1.22951	0.06727	0.01140	-1.23885	0.05792	0.00205
45	-1.37580	0.04008	0.00679	-1.38137	0.03451	0.00122
46	-1.47876	0.02803	0.00475	-1.48265	0.02413	0.00086
47	-1.67350	0.03528	0.00598	-1.67840	0.03038	0.00108
48	-1.70306	0.12342	0.02092	-1.72021	0.10627	0.00377
49	-1.55658	0.01742	0.00295	-1.55900	0.01500	0.00053
50	-1.23622	0.05232	0.00887	-1.24349	0.04505	0.00160
51	-1.68838	0.06328	0.01072	-1.69718	0.05449	0.00193
52	-1.54917	0.04371	0.00741	-1.55524	0.03764	0.00133
53	-1.24012	0.11851	0.02008	-1.25659	0.10204	0.00362
54	-1.62247	0.06907	0.01171	-1.63206	0.05948	0.00211
55	-1.64668	0.05585	0.00947	-1.65444	0.04809	0.00170
56	-1.78649	0.08452	0.01432	-1.79823	0.07278	0.00258
57	-1.33505	0.06097	0.01033	-1.34352	0.05250	0.00186
58	-1.40108	0.05059	0.00857	-1.40811	0.04356	0.00154
59	-1.41546	0.05004	0.00848	-1.42241	0.04309	0.00153
60	-1.76409	0.04295	0.00728	-1.77006	0.03698	0.00131
61	-2.04689	0.02290	0.00388	-2.05007	0.01972	0.00070
62	-1.83807	0.04530	0.00768	-1.84436	0.03900	0.00138
63	-2.68073	0.09647	0.02728	-2.70149	0.07571	0.00652
64	-2.64713	0.15128	0.04277	-2.67968	0.11873	0.01022
65	-2.68224	0.12894	0.03646	-2.70999	0.10119	0.00871
66	-2.87120	0.20322	0.05746	-2.91493	0.15949	0.01373
67	-2.24148	0.18011	0.05093	-2.28024	0.14135	0.01217
68	-2.11281	0.17906	0.05063	-2.15134	0.14053	0.01210
69	-1.89613	0.13541	0.03829	-1.92527	0.10627	0.00915
70	-3.13110	0.07992	0.02260	-3.14830	0.06272	0.00540
71	-3.14726	0.06492	0.01836	-3.16123	0.05095	0.00439
72	-2.79476	0.11101	0.03139	-2.81865	0.08712	0.00750
73	-2.85611	0.08266	0.02337	-2.87389	0.06487	0.00558
74	-3.32434	0.03658	0.01034	-3.33222	0.02871	0.00247
75	-3.45084	0.03615	0.01022	-3.45862	0.02837	0.00244
76	-3.55457	0.02111	0.00597	-3.55912	0.01657	0.00143

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.15 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.61059	0.15393	0.02291	-0.57646	0.18807	0.05704
2	-0.64242	0.16657	0.02479	-0.60549	0.20351	0.06172
3	-0.56713	0.02468	0.00367	-0.56166	0.03015	0.00914
4	-0.91501	0.02618	0.00390	-0.90920	0.03199	0.00970
5	-0.98275	0.01450	0.00216	-0.97954	0.01771	0.00537
6	-1.34425	0.00865	0.00129	-1.34233	0.01057	0.00321
7	-1.52430	0.01331	0.00198	-1.52135	0.01626	0.00493
8	-1.03225	0.01301	0.00194	-1.02936	0.01589	0.00482
9	-1.32515	0.00973	0.00145	-1.32299	0.01189	0.00361
10	-0.96047	0.02531	0.00377	-0.95486	0.03092	0.00938
11	-0.90628	0.03384	0.00504	-0.89878	0.04135	0.01254
12	-1.25288	0.01787	0.00266	-1.24892	0.02183	0.00662
13	-0.98343	0.00978	0.00145	-0.98126	0.01194	0.00362
14	-0.91597	0.00477	0.00071	-0.91491	0.00583	0.00177
15	-1.12012	0.02524	0.00376	-1.11452	0.03084	0.00935
16	-1.20991	0.01756	0.00261	-1.20601	0.02146	0.00651
17	-1.54124	0.01209	0.00180	-1.53856	0.01477	0.00448
18	-1.07556	0.00410	0.00061	-1.07466	0.00501	0.00152
19	-1.11308	0.02456	0.00365	-1.10763	0.03000	0.00910
20	-0.76560	0.00789	0.00117	-0.76385	0.00964	0.00292
21	-1.00300	0.01798	0.00268	-0.99901	0.02197	0.00666
22	-0.96711	0.02597	0.00386	-0.96136	0.03173	0.00962
23	-1.05069	0.01149	0.00171	-1.04814	0.01404	0.00426
24	-1.04583	0.00673	0.00100	-1.04434	0.00822	0.00249
25	-0.97941	0.00867	0.00129	-0.97749	0.01060	0.00321
26	-1.30723	0.00446	0.00066	-1.30624	0.00545	0.00165
27	-0.58324	0.01017	0.00288	-0.58483	0.00857	0.00128
28	-0.45970	0.00881	0.00250	-0.46108	0.00743	0.00111
29	-0.51315	0.00924	0.00262	-0.51460	0.00779	0.00117
30	-0.64642	0.01459	0.00414	-0.64872	0.01230	0.00184
31	-0.53032	0.01198	0.00340	-0.53221	0.01010	0.00151
32	-0.65976	0.01005	0.00285	-0.66134	0.00847	0.00127
33	-0.56054	0.00730	0.00207	-0.56169	0.00615	0.00092
34	-0.63695	0.00568	0.00161	-0.63784	0.00479	0.00072
35	-0.81751	0.00454	0.00129	-0.81822	0.00382	0.00057
36	-0.45625	0.01367	0.00388	-0.45840	0.01153	0.00173
37	-0.77537	0.01567	0.00444	-0.77783	0.01321	0.00198
38	-0.37654	0.01473	0.00418	-0.37885	0.01242	0.00186
39	-0.54607	0.01196	0.00339	-0.54795	0.01008	0.00151
40	-0.46630	0.01504	0.00426	-0.46867	0.01268	0.00190
41	-0.72536	0.02330	0.00660	-0.72902	0.01964	0.00294
42	-0.57605	0.01579	0.00448	-0.57853	0.01331	0.00200
43	-0.48291	0.01353	0.00384	-0.48504	0.01141	0.00171
44	-1.09364	0.05984	0.01014	-1.10196	0.05152	0.00183
45	-1.12654	0.03282	0.00556	-1.13110	0.02826	0.00100
46	-1.30629	0.02476	0.00420	-1.30973	0.02132	0.00076
47	-1.20014	0.02530	0.00429	-1.20366	0.02179	0.00077
48	-0.72808	0.05277	0.00894	-0.73541	0.04543	0.00161
49	-2.28470	0.02556	0.00433	-2.28825	0.02201	0.00078
50	-0.96863	0.04099	0.00695	-0.97433	0.03530	0.00125
51	-1.11226	0.04169	0.00707	-1.11805	0.03590	0.00127
52	-0.99206	0.02799	0.00474	-0.99595	0.02410	0.00085
53	-0.84613	0.08086	0.01370	-0.85737	0.06962	0.00247
54	-0.94897	0.04040	0.00685	-0.95459	0.03479	0.00123
55	-1.08586	0.03683	0.00624	-1.09098	0.03171	0.00112
56	-0.91891	0.04348	0.00737	-0.92495	0.03743	0.00133
57	-0.96914	0.04426	0.00750	-0.97529	0.03811	0.00135
58	-1.13741	0.04107	0.00696	-1.14312	0.03536	0.00125
59	-0.96834	0.03424	0.00580	-0.97310	0.02948	0.00104
60	-1.01229	0.02464	0.00418	-1.01572	0.02122	0.00075
61	-1.33029	0.01488	0.00252	-1.33236	0.01282	0.00045
62	-1.05111	0.02590	0.00439	-1.05471	0.02230	0.00079
63	-0.74516	0.02681	0.00758	-0.75093	0.02104	0.00181
64	-0.51863	0.02964	0.00838	-0.52501	0.02326	0.00200
65	-0.69987	0.03364	0.00951	-0.70711	0.02640	0.00227
66	-0.42149	0.02983	0.00844	-0.42791	0.02341	0.00202
67	-0.63191	0.05078	0.01436	-0.64284	0.03985	0.00343
68	-0.66346	0.05623	0.01590	-0.67556	0.04413	0.00380
69	-0.78176	0.05583	0.01579	-0.79377	0.04381	0.00377
70	-0.75511	0.01927	0.00545	-0.75926	0.01513	0.00130
71	-0.61817	0.01275	0.00361	-0.62091	0.01001	0.00086
72	-0.68316	0.02714	0.00767	-0.68900	0.02130	0.00183
73	-0.80944	0.02343	0.00662	-0.81449	0.01839	0.00158
74	-0.85658	0.00943	0.00266	-0.85860	0.00740	0.00064
75	-0.94119	0.00986	0.00279	-0.94331	0.00774	0.00067
76	-1.04197	0.00619	0.00175	-1.04330	0.00486	0.00042

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.16 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.79810	0.45332	0.06745	-1.69759	0.55383	0.16796
2	-1.59225	0.41286	0.06143	-1.50071	0.50440	0.15297
3	-1.61779	0.07040	0.01047	-1.60218	0.08600	0.02608
4	-1.54526	0.04421	0.00658	-1.53546	0.05402	0.01638
5	-2.10018	0.03098	0.00461	-2.09331	0.03785	0.01148
6	-2.46972	0.01590	0.00237	-2.46620	0.01943	0.00589
7	-1.99042	0.01738	0.00259	-1.98656	0.02123	0.00644
8	-2.11630	0.02666	0.00397	-2.11039	0.03258	0.00988
9	-2.24819	0.01652	0.00246	-2.24453	0.02018	0.00612
10	-1.59137	0.04193	0.00624	-1.58207	0.05123	0.01554
11	-1.36817	0.05109	0.00760	-1.35685	0.06242	0.01893
12	-1.58416	0.02260	0.00336	-1.57915	0.02761	0.00837
13	-1.84766	0.01837	0.00273	-1.84359	0.02244	0.00681
14	-2.09545	0.01091	0.00162	-2.09303	0.01333	0.00404
15	-1.73883	0.03919	0.00583	-1.73014	0.04788	0.01452
16	-1.95617	0.02840	0.00423	-1.94987	0.03469	0.01052
17	-2.27924	0.01787	0.00266	-2.27528	0.02184	0.00662
18	-2.73873	0.01043	0.00155	-2.73642	0.01275	0.00387
19	-1.50242	0.03315	0.00493	-1.49507	0.04050	0.01228
20	-2.39048	0.02464	0.00367	-2.38501	0.03011	0.00913
21	-1.89906	0.03405	0.00507	-1.89151	0.04160	0.01262
22	-1.54126	0.04139	0.00616	-1.53209	0.05057	0.01534
23	-2.20767	0.02414	0.00359	-2.20231	0.02950	0.00895
24	-2.68350	0.01727	0.00257	-2.67967	0.02110	0.00640
25	-2.25045	0.01993	0.00297	-2.24603	0.02435	0.00738
26	-2.13934	0.00730	0.00109	-2.13772	0.00892	0.00270
27	-0.83126	0.01449	0.00411	-0.83354	0.01221	0.00183
28	-0.88550	0.01698	0.00481	-0.88817	0.01431	0.00215
29	-0.97990	0.01765	0.00500	-0.98267	0.01488	0.00223
30	-0.94210	0.02126	0.00603	-0.94544	0.01792	0.00269
31	-0.91476	0.02066	0.00586	-0.91801	0.01742	0.00261
32	-0.95722	0.01459	0.00414	-0.95952	0.01230	0.00184
33	-1.08763	0.01417	0.00402	-1.08985	0.01194	0.00179
34	-1.19547	0.01066	0.00302	-1.19714	0.00898	0.00135
35	-1.18478	0.00657	0.00186	-1.18581	0.00554	0.00083
36	-1.02800	0.03081	0.00873	-1.03284	0.02597	0.00389
37	-1.04657	0.02115	0.00600	-1.04989	0.01783	0.00267
38	-0.80289	0.03142	0.00891	-0.80783	0.02648	0.00397
39	-1.06549	0.02333	0.00661	-1.06915	0.01966	0.00295
40	-0.90731	0.02927	0.00830	-0.91191	0.02467	0.00370
41	-0.80758	0.02594	0.00735	-0.81165	0.02186	0.00328
42	-0.96494	0.02645	0.00750	-0.96910	0.02230	0.00334
43	-1.08069	0.03028	0.00858	-1.08545	0.02552	0.00383
44	-1.53652	0.08407	0.01425	-1.54820	0.07239	0.00256
45	-2.10192	0.06123	0.01038	-2.11043	0.05273	0.00187
46	-2.28544	0.04331	0.00734	-2.29146	0.03729	0.00132
47	-2.10560	0.04439	0.00752	-2.11176	0.03822	0.00135
48	-1.46427	0.10612	0.01798	-1.47901	0.09137	0.00324
49	-1.94672	0.02178	0.00369	-1.94975	0.01875	0.00066
50	-1.90213	0.08050	0.01364	-1.91332	0.06931	0.00246
51	-1.55316	0.05822	0.00987	-1.56125	0.05013	0.00178
52	-2.16393	0.06106	0.01035	-2.17241	0.05258	0.00186
53	-1.30951	0.12514	0.02121	-1.32690	0.10775	0.00382
54	-1.64632	0.07009	0.01188	-1.65606	0.06035	0.00214
55	-1.72665	0.05856	0.00992	-1.73479	0.05043	0.00179
56	-1.53697	0.07272	0.01232	-1.54708	0.06261	0.00222
57	-1.77754	0.08118	0.01376	-1.78882	0.06990	0.00248
58	-1.84425	0.06659	0.01128	-1.85350	0.05734	0.00203
59	-2.01737	0.07132	0.01209	-2.02728	0.06141	0.00218
60	-2.00159	0.04873	0.00826	-2.00837	0.04196	0.00149
61	-2.23792	0.02504	0.00424	-2.24140	0.02156	0.00076
62	-1.89971	0.04681	0.00793	-1.90622	0.04031	0.00143
63	-1.04020	0.03743	0.01058	-1.04825	0.02938	0.00253
64	-0.82677	0.04725	0.01336	-0.83694	0.03708	0.00319
65	-0.82095	0.03947	0.01116	-0.82944	0.03097	0.00267
66	-0.65083	0.04606	0.01302	-0.66074	0.03615	0.00311
67	-0.84206	0.06766	0.01913	-0.85662	0.05310	0.00457
68	-0.93766	0.07947	0.02247	-0.95476	0.06237	0.00537
69	-1.19716	0.08549	0.02417	-1.21556	0.06710	0.00578
70	-0.96432	0.02461	0.00696	-0.96962	0.01932	0.00166
71	-1.23636	0.02550	0.00721	-1.24185	0.02002	0.00172
72	-0.84616	0.03361	0.00950	-0.85339	0.02638	0.00227
73	-0.98185	0.02842	0.00803	-0.98796	0.02230	0.00192
74	-1.35697	0.01493	0.00422	-1.36018	0.01172	0.00101
75	-1.23806	0.01297	0.00367	-1.24085	0.01018	0.00088
76	-1.63501	0.00971	0.00275	-1.63710	0.00762	0.00066

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.17 The Elasticities with respect to Wages from Model 2 of Group 1 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-6.93672	0.80914	0.16780	-6.37651	1.36935	0.72801
2	-6.86978	0.78229	0.16223	-6.32816	1.32392	0.70386
3	-7.54919	0.11890	0.02466	-7.46686	0.20123	0.10698
4	-7.54102	0.12069	0.02503	-7.45746	0.20425	0.10859
5	-7.53107	0.12367	0.02565	-7.44544	0.20930	0.11127
6	-7.52696	0.12284	0.02548	-7.44190	0.20789	0.11053
7	-7.55311	0.10751	0.02229	-7.47868	0.18194	0.09673
8	-7.53269	0.11713	0.02429	-7.45160	0.19823	0.10539
9	-7.56187	0.10517	0.02181	-7.48906	0.17798	0.09462
10	-7.53188	0.12830	0.02661	-7.44306	0.21713	0.11543
11	-7.54676	0.10117	0.02098	-7.47672	0.17121	0.09102
12	-7.56983	0.08253	0.01711	-7.51269	0.13967	0.07425
13	-7.57902	0.07185	0.01490	-7.52927	0.12159	0.06464
14	-7.59225	0.05991	0.01242	-7.55078	0.10138	0.05390
15	-7.53700	0.11034	0.02288	-7.46061	0.18673	0.09928
16	-7.53961	0.10821	0.02244	-7.46469	0.18312	0.09736
17	-7.57807	0.11459	0.02376	-7.49874	0.19393	0.10310
18	-7.58583	0.08582	0.01780	-7.52641	0.14524	0.07722
19	-7.55392	0.09713	0.02014	-7.48667	0.16438	0.08739
20	-7.55674	0.09099	0.01887	-7.49375	0.15398	0.08186
21	-7.55600	0.10773	0.02234	-7.48142	0.18232	0.09693
22	-7.58509	0.10369	0.02150	-7.51330	0.17548	0.09329
23	-7.57879	0.10859	0.02252	-7.50361	0.18377	0.09770
24	-7.65662	0.09543	0.01979	-7.59055	0.16151	0.08587
25	-7.56187	0.09218	0.01912	-7.49804	0.15601	0.08294
26	-7.55178	0.06680	0.01385	-7.50553	0.11305	0.06010
27	-8.16472	0.13360	0.00526	-8.16239	0.13592	0.00758
28	-8.14339	0.14612	0.00575	-8.14085	0.14866	0.00829
29	-8.11889	0.17467	0.00688	-8.11586	0.17770	0.00991
30	-8.05722	0.24083	0.00948	-8.05303	0.24502	0.01367
31	-8.08154	0.20628	0.00812	-8.07796	0.20986	0.01171
32	-8.14515	0.14643	0.00577	-8.14260	0.14898	0.00831
33	-8.15675	0.13615	0.00536	-8.15438	0.13852	0.00773
34	-8.20395	0.09872	0.00389	-8.20224	0.10044	0.00560
35	-8.23709	0.06373	0.00251	-8.23598	0.06484	0.00362
36	-7.90017	0.37837	0.01490	-7.89359	0.38495	0.02147
37	-7.90127	0.37402	0.01473	-7.89477	0.38052	0.02123
38	-7.98467	0.29911	0.01178	-7.97948	0.30431	0.01697
39	-8.03377	0.26036	0.01025	-8.02924	0.26488	0.01478
40	-8.00703	0.28340	0.01116	-8.00211	0.28832	0.01608
41	-7.94853	0.32993	0.01299	-7.94280	0.33566	0.01872
42	-7.94111	0.33671	0.01326	-7.93526	0.34256	0.01911
43	-7.92550	0.35073	0.01381	-7.91941	0.35682	0.01990

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-6.48846	0.38821	0.21821	-6.67527	0.20140	0.03141
45	-6.53746	0.33772	0.18983	-6.69997	0.17521	0.02732
46	-6.55372	0.31562	0.17741	-6.70560	0.16374	0.02553
47	-6.60823	0.26311	0.14790	-6.73484	0.13650	0.02129
48	-6.65153	0.23365	0.13133	-6.76396	0.12122	0.01890
49	-6.57865	0.28922	0.16257	-6.71782	0.15005	0.02340
50	-6.49510	0.37839	0.21269	-6.67718	0.19631	0.03061
51	-6.62659	0.24977	0.14040	-6.74678	0.12958	0.02021
52	-6.58988	0.28726	0.16147	-6.72811	0.14903	0.02324
53	-6.53811	0.33920	0.19067	-6.70134	0.17598	0.02744
54	-6.61229	0.26309	0.14788	-6.73889	0.13649	0.02128
55	-6.59412	0.27654	0.15544	-6.72719	0.14347	0.02237
56	-6.64553	0.23064	0.12965	-6.75652	0.11966	0.01866
57	-6.53874	0.33073	0.18590	-6.69789	0.17158	0.02676
58	-6.55932	0.31304	0.17596	-6.70996	0.16241	0.02533
59	-6.55642	0.31059	0.17458	-6.70587	0.16113	0.02513
60	-6.65133	0.23193	0.13037	-6.76294	0.12033	0.01876
61	-6.68318	0.19332	0.10867	-6.77621	0.10030	0.01564
62	-6.65094	0.22445	0.12616	-6.75894	0.11644	0.01816
63	-7.09992	0.24330	0.03148	-7.11752	0.22570	0.01388
64	-7.10344	0.23914	0.03094	-7.12074	0.22184	0.01364
65	-7.10614	0.23645	0.03059	-7.12324	0.21934	0.01349
66	-7.16515	0.17913	0.02317	-7.17810	0.16617	0.01022
67	-6.97558	0.35854	0.04639	-7.00152	0.33260	0.02045
68	-6.91967	0.40934	0.05296	-6.94928	0.37973	0.02335
69	-6.78134	0.54308	0.07026	-6.82063	0.50380	0.03098
70	-7.19376	0.15334	0.01984	-7.20486	0.14224	0.00875
71	-7.19233	0.15361	0.01987	-7.20344	0.14250	0.00876
72	-7.12865	0.21339	0.02761	-7.14408	0.19796	0.01217
73	-7.13532	0.20587	0.02664	-7.15021	0.19098	0.01174
74	-7.21884	0.13002	0.01682	-7.22824	0.12062	0.00742
75	-7.23464	0.11378	0.01472	-7.24287	0.10555	0.00649
76	-7.25111	0.10216	0.01322	-7.25850	0.09477	0.00583

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.18 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.26055	-0.03039	-0.00630	0.23951	-0.05143	-0.02734
2	0.25915	-0.02951	-0.00612	0.23872	-0.04994	-0.02655
3	0.28469	-0.00448	-0.00093	0.28158	-0.00759	-0.00403
4	0.28431	-0.00455	-0.00094	0.28116	-0.00770	-0.00409
5	0.28350	-0.00466	-0.00097	0.28028	-0.00788	-0.00419
6	0.28273	-0.00461	-0.00096	0.27954	-0.00781	-0.00415
7	0.28034	-0.00399	-0.00083	0.27758	-0.00675	-0.00359
8	0.28194	-0.00438	-0.00091	0.27890	-0.00742	-0.00394
9	0.28414	-0.00395	-0.00082	0.28140	-0.00669	-0.00356
10	0.28290	-0.00482	-0.00100	0.27956	-0.00816	-0.00434
11	0.28410	-0.00381	-0.00079	0.28147	-0.00645	-0.00343
12	0.28527	-0.00311	-0.00064	0.28311	-0.00526	-0.00280
13	0.28822	-0.00273	-0.00057	0.28632	-0.00462	-0.00246
14	0.28793	-0.00227	-0.00047	0.28635	-0.00384	-0.00204
15	0.28222	-0.00413	-0.00086	0.27936	-0.00699	-0.00372
16	0.28328	-0.00407	-0.00084	0.28047	-0.00688	-0.00366
17	0.28546	-0.00432	-0.00090	0.28247	-0.00731	-0.00388
18	0.28072	-0.00318	-0.00066	0.27852	-0.00537	-0.00286
19	0.28564	-0.00367	-0.00076	0.28310	-0.00622	-0.00330
20	0.28605	-0.00344	-0.00071	0.28366	-0.00583	-0.00310
21	0.28499	-0.00406	-0.00084	0.28218	-0.00688	-0.00366
22	0.28655	-0.00392	-0.00081	0.28384	-0.00663	-0.00352
23	0.28609	-0.00410	-0.00085	0.28325	-0.00694	-0.00369
24	0.28829	-0.00359	-0.00075	0.28580	-0.00608	-0.00323
25	0.28599	-0.00349	-0.00072	0.28357	-0.00590	-0.00314
26	0.28878	-0.00255	-0.00053	0.28701	-0.00432	-0.00230
27	0.30452	-0.00498	-0.00020	0.30444	-0.00507	-0.00028
28	0.30800	-0.00553	-0.00022	0.30791	-0.00562	-0.00031
29	0.30415	-0.00654	-0.00026	0.30404	-0.00666	-0.00037
30	0.29775	-0.00890	-0.00035	0.29760	-0.00905	-0.00051
31	0.30444	-0.00777	-0.00031	0.30430	-0.00791	-0.00044
32	0.30721	-0.00552	-0.00022	0.30711	-0.00562	-0.00031
33	0.30725	-0.00513	-0.00020	0.30717	-0.00522	-0.00029
34	0.30344	-0.00365	-0.00014	0.30338	-0.00371	-0.00021
35	0.30971	-0.00240	-0.00009	0.30967	-0.00244	-0.00014
36	0.29763	-0.01425	-0.00056	0.29738	-0.01450	-0.00081
37	0.29865	-0.01414	-0.00056	0.29840	-0.01438	-0.00080
38	0.30045	-0.01126	-0.00044	0.30025	-0.01145	-0.00064
39	0.29890	-0.00969	-0.00038	0.29874	-0.00986	-0.00055
40	0.29897	-0.01058	-0.00042	0.29879	-0.01077	-0.00060
41	0.30013	-0.01246	-0.00049	0.29991	-0.01267	-0.00071
42	0.29998	-0.01272	-0.00050	0.29976	-0.01294	-0.00072
43	0.29958	-0.01326	-0.00052	0.29935	-0.01349	-0.00075

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	0.23837	-0.01426	-0.00802	0.24524	-0.00740	-0.00115
45	0.24197	-0.01250	-0.00703	0.24799	-0.00649	-0.00101
46	0.24715	-0.01190	-0.00669	0.25288	-0.00618	-0.00096
47	0.24889	-0.00991	-0.00557	0.25366	-0.00514	-0.00080
48	0.23637	-0.00830	-0.00467	0.24037	-0.00431	-0.00067
49	0.24949	-0.01097	-0.00617	0.25477	-0.00569	-0.00089
50	0.24101	-0.01404	-0.00789	0.24777	-0.00728	-0.00114
51	0.24569	-0.00926	-0.00521	0.25014	-0.00480	-0.00075
52	0.24293	-0.01059	-0.00595	0.24803	-0.00549	-0.00086
53	0.23999	-0.01245	-0.00700	0.24598	-0.00646	-0.00101
54	0.24570	-0.00978	-0.00549	0.25041	-0.00507	-0.00079
55	0.24830	-0.01041	-0.00585	0.25332	-0.00540	-0.00084
56	0.24702	-0.00857	-0.00482	0.25115	-0.00445	-0.00069
57	0.24601	-0.01244	-0.00699	0.25200	-0.00646	-0.00101
58	0.24502	-0.01169	-0.00657	0.25065	-0.00607	-0.00095
59	0.24872	-0.01178	-0.00662	0.25439	-0.00611	-0.00095
60	0.23938	-0.00835	-0.00469	0.24339	-0.00433	-0.00068
61	0.24884	-0.00720	-0.00405	0.25231	-0.00373	-0.00058
62	0.24763	-0.00836	-0.00470	0.25166	-0.00434	-0.00068
63	0.26624	-0.00912	-0.00118	0.26690	-0.00846	-0.00052
64	0.26666	-0.00898	-0.00116	0.26731	-0.00833	-0.00051
65	0.26680	-0.00888	-0.00115	0.26744	-0.00824	-0.00051
66	0.26973	-0.00674	-0.00087	0.27022	-0.00626	-0.00038
67	0.26357	-0.01355	-0.00175	0.26455	-0.01257	-0.00077
68	0.26261	-0.01553	-0.00201	0.26374	-0.01441	-0.00089
69	0.25731	-0.02061	-0.00267	0.25881	-0.01912	-0.00118
70	0.27037	-0.00576	-0.00075	0.27078	-0.00535	-0.00033
71	0.27101	-0.00579	-0.00075	0.27143	-0.00537	-0.00033
72	0.26912	-0.00806	-0.00104	0.26970	-0.00747	-0.00046
73	0.27074	-0.00781	-0.00101	0.27130	-0.00725	-0.00045
74	0.27087	-0.00488	-0.00063	0.27123	-0.00453	-0.00028
75	0.27278	-0.00429	-0.00056	0.27309	-0.00398	-0.00024
76	0.26893	-0.00379	-0.00049	0.26920	-0.00351	-0.00022

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.19 The Elasticities with respect to Distances from Model 2 of Group 1 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.88345	0.10305	0.02137	-0.81210	0.17440	0.09272
2	-0.98715	0.11241	0.02331	-0.90932	0.19024	0.10114
3	-0.97508	0.01536	0.00318	-0.96444	0.02599	0.01382
4	-0.96531	0.01545	0.00320	-0.95462	0.02615	0.01390
5	-0.94615	0.01554	0.00322	-0.93539	0.02629	0.01398
6	-0.95630	0.01561	0.00324	-0.94549	0.02641	0.01404
7	-1.07751	0.01534	0.00318	-1.06689	0.02595	0.01380
8	-1.00287	0.01559	0.00323	-0.99208	0.02639	0.01403
9	-1.09774	0.01527	0.00317	-1.08717	0.02584	0.01374
10	-0.90440	0.01541	0.00319	-0.89373	0.02607	0.01386
11	-1.15279	0.01545	0.00320	-1.14209	0.02615	0.01390
12	-1.35370	0.01476	0.00306	-1.34348	0.02498	0.01328
13	-1.49678	0.01419	0.00294	-1.48695	0.02401	0.01277
14	-1.67760	0.01324	0.00275	-1.66844	0.02240	0.01191
15	-1.06481	0.01559	0.00323	-1.05402	0.02638	0.01403
16	-1.08493	0.01557	0.00323	-1.07415	0.02635	0.01401
17	-0.99160	0.01499	0.00311	-0.98122	0.02538	0.01349
18	-1.29344	0.01463	0.00303	-1.28331	0.02477	0.01317
19	-1.19229	0.01533	0.00318	-1.18168	0.02595	0.01379
20	-1.26087	0.01518	0.00315	-1.25036	0.02569	0.01366
21	-1.07744	0.01536	0.00319	-1.06680	0.02600	0.01382
22	-1.09566	0.01498	0.00311	-1.08529	0.02535	0.01348
23	-1.05037	0.01505	0.00312	-1.03996	0.02547	0.01354
24	-1.12591	0.01403	0.00291	-1.11620	0.02375	0.01263
25	-1.24231	0.01514	0.00314	-1.23183	0.02563	0.01363
26	-1.59811	0.01414	0.00293	-1.58832	0.02392	0.01272
27	-2.20379	0.03606	0.00142	-2.20316	0.03669	0.00205
28	-2.12393	0.03811	0.00150	-2.12327	0.03877	0.00216
29	-1.93557	0.04164	0.00164	-1.93484	0.04236	0.00236
30	-1.60015	0.04783	0.00188	-1.59932	0.04866	0.00271
31	-1.77218	0.04523	0.00178	-1.77139	0.04602	0.00257
32	-2.11920	0.03810	0.00150	-2.11853	0.03876	0.00216
33	-2.19201	0.03659	0.00144	-2.19137	0.03722	0.00208
34	-2.50600	0.03016	0.00119	-2.50548	0.03068	0.00171
35	-2.95750	0.02288	0.00090	-2.95710	0.02328	0.00130
36	-1.16290	0.05570	0.00219	-1.16193	0.05666	0.00316
37	-1.17817	0.05577	0.00220	-1.17720	0.05674	0.00316
38	-1.39655	0.05232	0.00206	-1.39564	0.05322	0.00297
39	-1.52597	0.04945	0.00195	-1.52511	0.05031	0.00281
40	-1.44374	0.05110	0.00201	-1.44285	0.05199	0.00290
41	-1.30231	0.05406	0.00213	-1.30137	0.05500	0.00307
42	-1.28233	0.05437	0.00214	-1.28139	0.05532	0.00309
43	-1.24247	0.05498	0.00216	-1.24152	0.05594	0.00312
44	-0.89632	0.05363	0.03014	-0.92212	0.02782	0.00434
45	-1.03874	0.05366	0.03016	-1.06456	0.02784	0.00434
46	-1.11591	0.05374	0.03021	-1.14177	0.02788	0.00435
47	-1.29794	0.05168	0.02905	-1.32280	0.02681	0.00418
48	-1.39348	0.04895	0.02751	-1.41703	0.02540	0.00396
49	-1.20660	0.05305	0.02982	-1.23212	0.02752	0.00429
50	-0.92672	0.05399	0.03035	-0.95270	0.02801	0.00437
51	-1.34290	0.05062	0.02845	-1.36726	0.02626	0.00410
52	-1.19931	0.05228	0.02939	-1.22446	0.02712	0.00423
53	-1.03066	0.05347	0.03006	-1.05639	0.02774	0.00433
54	-1.29157	0.05139	0.02889	-1.31630	0.02666	0.00416
55	-1.24801	0.05234	0.02942	-1.27320	0.02715	0.00423
56	-1.42454	0.04944	0.02779	-1.44833	0.02565	0.00400
57	-1.06814	0.05403	0.03037	-1.09413	0.02803	0.00437
58	-1.11949	0.05343	0.03003	-1.14520	0.02772	0.00432
59	-1.13536	0.05378	0.03023	-1.16124	0.02790	0.00435
60	-1.40548	0.04901	0.02755	-1.42907	0.02543	0.00396
61	-1.60428	0.04641	0.02608	-1.62661	0.02408	0.00375
62	-1.45326	0.04904	0.02757	-1.47686	0.02544	0.00397
63	-2.60864	0.08939	0.01157	-2.61511	0.08293	0.00510
64	-2.62767	0.08846	0.01144	-2.63407	0.08206	0.00505
65	-2.63966	0.08783	0.01136	-2.64602	0.08148	0.00501
66	-2.93118	0.07328	0.00948	-2.93648	0.06798	0.00418
67	-2.20651	0.11341	0.01467	-2.21472	0.10521	0.00647
68	-2.07039	0.12248	0.01585	-2.07925	0.11362	0.00699
69	-1.77197	0.14191	0.01836	-1.78223	0.13164	0.00809
70	-3.09124	0.06589	0.00852	-3.09600	0.06112	0.00376
71	-3.09099	0.06602	0.00854	-3.09576	0.06124	0.00377
72	-2.74972	0.08231	0.01065	-2.75568	0.07636	0.00470
73	-2.78953	0.08049	0.01041	-2.79535	0.07466	0.00459
74	-3.26144	0.05874	0.00760	-3.26568	0.05449	0.00335
75	-3.40179	0.05350	0.00692	-3.40566	0.04963	0.00305
76	-3.50504	0.04938	0.00639	-3.50862	0.04581	0.00282

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.20 The Elasticities with respect to Wages from Model 2 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	4.80385	-1.01432	-0.20415	4.42114	-1.39703	-0.58687
2	4.92490	-0.84237	-0.16954	4.60707	-1.16020	-0.48738
3	5.71047	-0.10634	-0.02140	5.67034	-0.14647	-0.06153
4	5.69956	-0.10631	-0.02140	5.65945	-0.14642	-0.06151
5	5.71012	-0.11117	-0.02238	5.66818	-0.15312	-0.06432
6	5.69696	-0.10759	-0.02166	5.65637	-0.14819	-0.06225
7	5.67447	-0.09019	-0.01815	5.64044	-0.12421	-0.05218
8	5.69311	-0.10155	-0.02044	5.65480	-0.13987	-0.05876
9	5.67788	-0.08955	-0.01802	5.64409	-0.12334	-0.05181
10	5.68956	-0.11329	-0.02280	5.64681	-0.15603	-0.06555
11	5.68852	-0.08346	-0.01680	5.65704	-0.11494	-0.04829
12	5.65125	-0.06323	-0.01273	5.62740	-0.08709	-0.03658
13	5.64039	-0.05347	-0.01076	5.62022	-0.07365	-0.03094
14	5.61123	-0.04286	-0.00863	5.59506	-0.05904	-0.02480
15	5.69245	-0.09366	-0.01885	5.65711	-0.12899	-0.05419
16	5.67973	-0.09119	-0.01835	5.64532	-0.12560	-0.05276
17	5.70929	-0.10648	-0.02143	5.66912	-0.14666	-0.06161
18	5.61201	-0.06540	-0.01316	5.58733	-0.09007	-0.03784
19	5.67765	-0.08085	-0.01627	5.64714	-0.11136	-0.04678
20	5.66842	-0.07451	-0.01500	5.64030	-0.10262	-0.04311
21	5.70742	-0.09477	-0.01907	5.67166	-0.13052	-0.05483
22	5.70632	-0.09313	-0.01875	5.67118	-0.12827	-0.05389
23	5.71416	-0.09865	-0.01985	5.67694	-0.13587	-0.05708
24	5.71020	-0.09080	-0.01828	5.67594	-0.12506	-0.05254
25	5.68096	-0.07708	-0.01551	5.65188	-0.10617	-0.04460
26	5.60936	-0.04898	-0.00986	5.59088	-0.06746	-0.02834
27	5.55127	-0.12950	-0.01784	5.56299	-0.11779	-0.00612
28	5.54500	-0.13950	-0.01921	5.55762	-0.12688	-0.00659
29	5.52180	-0.16602	-0.02286	5.53682	-0.15100	-0.00785
30	5.47240	-0.22896	-0.03153	5.49311	-0.20824	-0.01082
31	5.50556	-0.19655	-0.02707	5.52334	-0.17877	-0.00929
32	5.54135	-0.14027	-0.01932	5.55404	-0.12758	-0.00663
33	5.54709	-0.13008	-0.01791	5.55885	-0.11831	-0.00615
34	5.57273	-0.09713	-0.01338	5.58152	-0.08834	-0.00459
35	5.58456	-0.06019	-0.00829	5.59001	-0.05475	-0.00284
36	5.39657	-0.35649	-0.04910	5.42882	-0.32424	-0.01685
37	5.40693	-0.34221	-0.04713	5.43789	-0.31125	-0.01617
38	5.44978	-0.28201	-0.03884	5.47529	-0.25650	-0.01333
39	5.46439	-0.24473	-0.03371	5.48653	-0.22259	-0.01157
40	5.44169	-0.26450	-0.03643	5.46561	-0.24057	-0.01250
41	5.41575	-0.30694	-0.04227	5.44351	-0.27917	-0.01451
42	5.41180	-0.31151	-0.04290	5.43998	-0.28333	-0.01472
43	5.40046	-0.33286	-0.04584	5.43057	-0.30275	-0.01573

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	3.00784	-0.08873	-0.05058	3.05493	-0.04164	-0.00350
45	3.01193	-0.08191	-0.04670	3.05540	-0.03844	-0.00323
46	3.02004	-0.07889	-0.04498	3.06190	-0.03702	-0.00311
47	3.02304	-0.07064	-0.04028	3.06053	-0.03315	-0.00279
48	3.01884	-0.06555	-0.03737	3.05363	-0.03077	-0.00259
49	3.02233	-0.07500	-0.04276	3.06213	-0.03520	-0.00296
50	3.01381	-0.08882	-0.05064	3.06095	-0.04168	-0.00350
51	3.02189	-0.06824	-0.03890	3.05811	-0.03203	-0.00269
52	3.01540	-0.07488	-0.04269	3.05514	-0.03514	-0.00295
53	3.01236	-0.08343	-0.04757	3.05664	-0.03916	-0.00329
54	3.02119	-0.07133	-0.04067	3.05904	-0.03348	-0.00281
55	3.02098	-0.07289	-0.04156	3.05966	-0.03421	-0.00287
56	3.02473	-0.06576	-0.03749	3.05963	-0.03086	-0.00259
57	3.01743	-0.08170	-0.04658	3.06079	-0.03834	-0.00322
58	3.01806	-0.07880	-0.04493	3.05988	-0.03698	-0.00311
59	3.02223	-0.07910	-0.04510	3.06421	-0.03712	-0.00312
60	3.01761	-0.06509	-0.03711	3.05215	-0.03055	-0.00257
61	3.02754	-0.05827	-0.03322	3.05846	-0.02735	-0.00230
62	3.02711	-0.06389	-0.03642	3.06102	-0.02998	-0.00252
63	3.47374	-0.11255	-0.03194	3.49768	-0.08861	-0.00799
64	3.47693	-0.11176	-0.03171	3.50071	-0.08798	-0.00794
65	3.47430	-0.11000	-0.03121	3.49770	-0.08660	-0.00781
66	3.48201	-0.09056	-0.02570	3.50127	-0.07130	-0.00643
67	3.45969	-0.14801	-0.04200	3.49117	-0.11652	-0.01051
68	3.45133	-0.16137	-0.04579	3.48566	-0.12704	-0.01146
69	3.43009	-0.19697	-0.05589	3.47200	-0.15507	-0.01399
70	3.48983	-0.08227	-0.02334	3.50734	-0.06477	-0.00584
71	3.48822	-0.08235	-0.02337	3.50573	-0.06483	-0.00585
72	3.48365	-0.10397	-0.02950	3.50577	-0.08185	-0.00738
73	3.48433	-0.10125	-0.02873	3.50587	-0.07971	-0.00719
74	3.49336	-0.07348	-0.02085	3.50899	-0.05785	-0.00522
75	3.49920	-0.06729	-0.01909	3.51351	-0.05298	-0.00478
76	3.49557	-0.06214	-0.01763	3.50879	-0.04892	-0.00441

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.21 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.24156	-0.05100	-0.01027	0.22231	-0.07025	-0.02951
2	0.24870	-0.04254	-0.00856	0.23265	-0.05859	-0.02461
3	0.28801	-0.00536	-0.00108	0.28598	-0.00739	-0.00310
4	0.28636	-0.00534	-0.00108	0.28434	-0.00736	-0.00309
5	0.28795	-0.00561	-0.00113	0.28584	-0.00772	-0.00324
6	0.28643	-0.00541	-0.00109	0.28439	-0.00745	-0.00313
7	0.28613	-0.00455	-0.00092	0.28441	-0.00626	-0.00263
8	0.28713	-0.00512	-0.00103	0.28520	-0.00705	-0.00296
9	0.28857	-0.00455	-0.00092	0.28685	-0.00627	-0.00263
10	0.28545	-0.00568	-0.00114	0.28331	-0.00783	-0.00329
11	0.28930	-0.00424	-0.00085	0.28770	-0.00585	-0.00246
12	0.29000	-0.00324	-0.00065	0.28877	-0.00447	-0.00188
13	0.29204	-0.00277	-0.00056	0.29100	-0.00381	-0.00160
14	0.29275	-0.00224	-0.00045	0.29190	-0.00308	-0.00129
15	0.28772	-0.00473	-0.00095	0.28593	-0.00652	-0.00274
16	0.28679	-0.00460	-0.00093	0.28505	-0.00634	-0.00266
17	0.28881	-0.00539	-0.00108	0.28678	-0.00742	-0.00312
18	0.28436	-0.00331	-0.00067	0.28311	-0.00456	-0.00192
19	0.28813	-0.00410	-0.00083	0.28659	-0.00565	-0.00237
20	0.28868	-0.00379	-0.00076	0.28725	-0.00523	-0.00220
21	0.29006	-0.00482	-0.00097	0.28825	-0.00663	-0.00279
22	0.28941	-0.00472	-0.00095	0.28763	-0.00651	-0.00273
23	0.28966	-0.00500	-0.00101	0.28777	-0.00689	-0.00289
24	0.29037	-0.00462	-0.00093	0.28863	-0.00636	-0.00267
25	0.28951	-0.00393	-0.00079	0.28803	-0.00541	-0.00227
26	0.29248	-0.00255	-0.00051	0.29152	-0.00352	-0.00148
27	0.29818	-0.00696	-0.00096	0.29881	-0.00633	-0.00033
28	0.29802	-0.00750	-0.00103	0.29870	-0.00682	-0.00035
29	0.29465	-0.00886	-0.00122	0.29545	-0.00806	-0.00042
30	0.29032	-0.01215	-0.00167	0.29142	-0.01105	-0.00057
31	0.29503	-0.01053	-0.00145	0.29598	-0.00958	-0.00050
32	0.29790	-0.00754	-0.00104	0.29858	-0.00686	-0.00036
33	0.29625	-0.00695	-0.00096	0.29688	-0.00632	-0.00033
34	0.29929	-0.00522	-0.00072	0.29976	-0.00474	-0.00025
35	0.29231	-0.00315	-0.00043	0.29260	-0.00287	-0.00015
36	0.28768	-0.01900	-0.00262	0.28940	-0.01728	-0.00090
37	0.28824	-0.01824	-0.00251	0.28989	-0.01659	-0.00086
38	0.29203	-0.01511	-0.00208	0.29340	-0.01374	-0.00071
39	0.29108	-0.01304	-0.00180	0.29226	-0.01186	-0.00062
40	0.28726	-0.01396	-0.00192	0.28853	-0.01270	-0.00066
41	0.28632	-0.01623	-0.00223	0.28779	-0.01476	-0.00077
42	0.28630	-0.01648	-0.00227	0.28779	-0.01499	-0.00078
43	0.28519	-0.01758	-0.00242	0.28678	-0.01599	-0.00083
44	0.15865	-0.00468	-0.00267	0.16113	-0.00220	-0.00018
45	0.15870	-0.00432	-0.00246	0.16099	-0.00203	-0.00017
46	0.16272	-0.00425	-0.00242	0.16497	-0.00199	-0.00017
47	0.16193	-0.00378	-0.00216	0.16393	-0.00178	-0.00015
48	0.15611	-0.00339	-0.00193	0.15791	-0.00159	-0.00013
49	0.16263	-0.00404	-0.00230	0.16477	-0.00189	-0.00016
50	0.16203	-0.00478	-0.00272	0.16456	-0.00224	-0.00019
51	0.16001	-0.00361	-0.00206	0.16192	-0.00170	-0.00014
52	0.15811	-0.00393	-0.00224	0.16019	-0.00184	-0.00015
53	0.15914	-0.00441	-0.00251	0.16148	-0.00207	-0.00017
54	0.16080	-0.00380	-0.00216	0.16281	-0.00178	-0.00015
55	0.16159	-0.00390	-0.00222	0.16366	-0.00183	-0.00015
56	0.16155	-0.00351	-0.00200	0.16342	-0.00165	-0.00014
57	0.16162	-0.00438	-0.00249	0.16394	-0.00205	-0.00017
58	0.16102	-0.00420	-0.00240	0.16325	-0.00197	-0.00017
59	0.16357	-0.00428	-0.00244	0.16584	-0.00201	-0.00017
60	0.15449	-0.00333	-0.00190	0.15625	-0.00156	-0.00013
61	0.16007	-0.00308	-0.00176	0.16171	-0.00145	-0.00012
62	0.16173	-0.00341	-0.00195	0.16354	-0.00160	-0.00013
63	0.18392	-0.00596	-0.00169	0.18519	-0.00469	-0.00042
64	0.18565	-0.00597	-0.00169	0.18692	-0.00470	-0.00042
65	0.18502	-0.00586	-0.00166	0.18626	-0.00461	-0.00042
66	0.18612	-0.00484	-0.00137	0.18715	-0.00381	-0.00034
67	0.18410	-0.00788	-0.00223	0.18577	-0.00620	-0.00056
68	0.18363	-0.00859	-0.00244	0.18546	-0.00676	-0.00061
69	0.18100	-0.01039	-0.00295	0.18321	-0.00818	-0.00074
70	0.18582	-0.00438	-0.00124	0.18676	-0.00345	-0.00031
71	0.18569	-0.00438	-0.00124	0.18662	-0.00345	-0.00031
72	0.18659	-0.00557	-0.00158	0.18777	-0.00438	-0.00040
73	0.18638	-0.00542	-0.00154	0.18753	-0.00426	-0.00038
74	0.18635	-0.00392	-0.00111	0.18719	-0.00309	-0.00028
75	0.18825	-0.00362	-0.00103	0.18902	-0.00285	-0.00026
76	0.18573	-0.00330	-0.00094	0.18643	-0.00260	-0.00023

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.22 The Elasticities with respect to Distances from Model 2 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.82693	0.17460	0.03514	-0.76105	0.24048	0.10102
2	-0.96177	0.16450	0.03311	-0.89970	0.22657	0.09518
3	-0.98642	0.01837	0.00370	-0.97949	0.02530	0.01063
4	-0.97248	0.01814	0.00365	-0.96563	0.02498	0.01049
5	-0.94737	0.01844	0.00371	-0.94041	0.02540	0.01067
6	-0.95910	0.01811	0.00365	-0.95227	0.02495	0.01048
7	-1.08843	0.01730	0.00348	-1.08190	0.02383	0.01001
8	-1.00585	0.01794	0.00361	-0.99908	0.02471	0.01038
9	-1.10116	0.01737	0.00350	-1.09461	0.02392	0.01005
10	-0.90490	0.01802	0.00363	-0.89811	0.02482	0.01042
11	-1.17748	0.01727	0.00348	-1.17097	0.02379	0.00999
12	-1.38891	0.01554	0.00313	-1.38304	0.02140	0.00899
13	-1.53490	0.01455	0.00293	-1.52941	0.02004	0.00842
14	-1.71087	0.01307	0.00263	-1.70593	0.01800	0.00756
15	-1.07719	0.01772	0.00357	-1.07051	0.02441	0.01025
16	-1.08528	0.01743	0.00351	-1.07870	0.02400	0.01008
17	-0.98474	0.01837	0.00370	-0.97781	0.02530	0.01063
18	-1.30639	0.01522	0.00306	-1.30065	0.02097	0.00881
19	-1.19233	0.01698	0.00342	-1.18592	0.02339	0.00982
20	-1.25644	0.01652	0.00332	-1.25021	0.02275	0.00956
21	-1.08637	0.01804	0.00363	-1.07957	0.02484	0.01044
22	-1.09989	0.01795	0.00361	-1.09312	0.02472	0.01039
23	-1.05824	0.01827	0.00368	-1.05135	0.02516	0.01057
24	-1.12792	0.01794	0.00361	-1.12115	0.02470	0.01038
25	-1.24087	0.01684	0.00339	-1.23452	0.02319	0.00974
26	-1.58185	0.01381	0.00278	-1.57664	0.01902	0.00799
27	-2.04054	0.04760	0.00656	-2.04484	0.04330	0.00225
28	-1.96904	0.04954	0.00682	-1.97352	0.04505	0.00234
29	-1.79253	0.05389	0.00742	-1.79740	0.04902	0.00255
30	-1.47802	0.06184	0.00852	-1.48361	0.05624	0.00292
31	-1.63797	0.05848	0.00805	-1.64326	0.05319	0.00276
32	-1.95995	0.04961	0.00683	-1.96444	0.04513	0.00234
33	-2.02995	0.04760	0.00656	-2.03426	0.04329	0.00225
34	-2.32189	0.04047	0.00557	-2.32556	0.03681	0.00191
35	-2.77234	0.02988	0.00412	-2.77504	0.02718	0.00141
36	-1.09001	0.07201	0.00992	-1.09652	0.06549	0.00340
37	-1.12680	0.07132	0.00982	-1.13325	0.06486	0.00337
38	-1.30437	0.06750	0.00930	-1.31048	0.06139	0.00319
39	-1.42039	0.06361	0.00876	-1.42614	0.05786	0.00301
40	-1.33508	0.06489	0.00894	-1.34095	0.05902	0.00307
41	-1.20366	0.06822	0.00940	-1.20983	0.06205	0.00322
42	-1.18958	0.06847	0.00943	-1.19577	0.06228	0.00324
43	-1.13363	0.06987	0.00962	-1.13995	0.06355	0.00330
44	-0.56089	0.01655	0.00943	-0.56967	0.00776	0.00065
45	-0.63609	0.01730	0.00986	-0.64527	0.00812	0.00068
46	-0.68386	0.01786	0.01018	-0.69334	0.00838	0.00070
47	-0.78556	0.01836	0.01047	-0.79530	0.00862	0.00072
48	-0.84187	0.01828	0.01042	-0.85157	0.00858	0.00072
49	-0.73166	0.01816	0.01035	-0.74130	0.00852	0.00072
50	-0.57104	0.01683	0.00959	-0.57997	0.00790	0.00066
51	-0.81338	0.01837	0.01047	-0.82313	0.00862	0.00072
52	-0.71963	0.01787	0.01019	-0.72912	0.00839	0.00070
53	-0.62096	0.01720	0.00981	-0.63009	0.00807	0.00068
54	-0.77328	0.01826	0.01041	-0.78297	0.00857	0.00072
55	-0.75442	0.01820	0.01038	-0.76408	0.00854	0.00072
56	-0.85209	0.01853	0.01056	-0.86192	0.00869	0.00073
57	-0.64839	0.01756	0.01001	-0.65771	0.00824	0.00069
58	-0.68058	0.01777	0.01013	-0.69001	0.00834	0.00070
59	-0.68512	0.01793	0.01022	-0.69464	0.00842	0.00071
60	-0.84507	0.01823	0.01039	-0.85475	0.00856	0.00072
61	-0.96489	0.01857	0.01059	-0.97474	0.00872	0.00073
62	-0.88172	0.01861	0.01061	-0.89159	0.00873	0.00073
63	-1.73605	0.05625	0.01596	-1.74801	0.04428	0.00399
64	-1.74802	0.05619	0.01594	-1.75998	0.04423	0.00399
65	-1.75800	0.05566	0.01579	-1.76984	0.04382	0.00395
66	-1.94271	0.05053	0.01434	-1.95345	0.03978	0.00359
67	-1.48442	0.06350	0.01802	-1.49793	0.04999	0.00451
68	-1.40256	0.06558	0.01861	-1.41651	0.05163	0.00466
69	-1.21640	0.06985	0.01982	-1.23126	0.05499	0.00496
70	-2.03982	0.04809	0.01364	-2.05005	0.03786	0.00342
71	-2.03676	0.04808	0.01364	-2.04699	0.03785	0.00341
72	-1.82125	0.05436	0.01542	-1.83281	0.04279	0.00386
73	-1.84552	0.05363	0.01522	-1.85693	0.04222	0.00381
74	-2.14903	0.04520	0.01283	-2.15865	0.03559	0.00321
75	-2.24027	0.04308	0.01222	-2.24944	0.03392	0.00306
76	-2.30792	0.04103	0.01164	-2.31664	0.03230	0.00291

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.23 The Elasticities with respect to Wages from Model 3 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.71804	0.18207	0.03087	-0.64218	0.25793	0.10673
2	-0.80059	0.09164	0.01554	-0.76241	0.12983	0.05372
3	-0.87358	0.02632	0.00446	-0.86261	0.03729	0.01543
4	-0.87504	0.02316	0.00393	-0.86539	0.03282	0.01358
5	-0.88603	0.01456	0.00247	-0.87996	0.02063	0.00854
6	-0.88384	0.01416	0.00240	-0.87794	0.02006	0.00830
7	-0.87733	0.01450	0.00246	-0.87128	0.02055	0.00850
8	-0.88048	0.01599	0.00271	-0.87382	0.02265	0.00937
9	-0.88876	0.00350	0.00059	-0.88730	0.00495	0.00205
10	-0.87656	0.02118	0.00359	-0.86773	0.03001	0.01242
11	-0.87203	0.02093	0.00355	-0.86331	0.02965	0.01227
12	-0.87326	0.01081	0.00183	-0.86875	0.01531	0.00634
13	-0.87137	0.00951	0.00161	-0.86741	0.01347	0.00557
14	-0.86465	0.01007	0.00171	-0.86046	0.01427	0.00590
15	-0.88508	0.01007	0.00171	-0.88088	0.01426	0.00590
16	-0.88390	0.00890	0.00151	-0.88019	0.01261	0.00522
17	-0.89419	0.00555	0.00094	-0.89187	0.00786	0.00325
18	-0.87624	0.00209	0.00036	-0.87536	0.00297	0.00123
19	-0.86873	0.02215	0.00375	-0.85950	0.03137	0.01298
20	-0.88062	0.00785	0.00133	-0.87735	0.01112	0.00460
21	-0.89034	0.00730	0.00124	-0.88729	0.01034	0.00428
22	-0.85421	0.04300	0.00729	-0.83630	0.06092	0.02521
23	-0.88755	0.01173	0.00199	-0.88266	0.01662	0.00688
24	-0.89187	0.00558	0.00095	-0.88954	0.00791	0.00327
25	-0.88507	0.00574	0.00097	-0.88267	0.00813	0.00337
26	-0.86952	0.00586	0.00099	-0.86708	0.00830	0.00344
27	-0.55306	0.01523	0.00493	-0.55654	0.01174	0.00144
28	-0.55570	0.01295	0.00420	-0.55867	0.00999	0.00123
29	-0.55300	0.01599	0.00518	-0.55667	0.01232	0.00152
30	-0.54236	0.02799	0.00906	-0.54877	0.02157	0.00265
31	-0.55719	0.01323	0.00428	-0.56022	0.01020	0.00125
32	-0.56077	0.00760	0.00246	-0.56251	0.00586	0.00072
33	-0.56214	0.00578	0.00187	-0.56347	0.00446	0.00055
34	-0.56099	0.00621	0.00201	-0.56241	0.00478	0.00059
35	-0.56374	0.00094	0.00030	-0.56396	0.00073	0.00009
36	-0.54134	0.03418	0.01107	-0.54917	0.02635	0.00324
37	-0.55220	0.02292	0.00742	-0.55745	0.01767	0.00217
38	-0.54633	0.02706	0.00876	-0.55253	0.02086	0.00256
39	-0.55840	0.01272	0.00412	-0.56132	0.00981	0.00121
40	-0.54722	0.02361	0.00765	-0.55263	0.01820	0.00224
41	-0.54978	0.02270	0.00735	-0.55498	0.01750	0.00215
42	-0.55374	0.01881	0.00609	-0.55804	0.01450	0.00178
43	-0.55910	0.01444	0.00468	-0.56241	0.01113	0.00137
44	-0.44578	0.01466	0.00876	-0.45399	0.00645	0.00055
45	-0.45138	0.00865	0.00517	-0.45623	0.00380	0.00032
46	-0.44862	0.01217	0.00728	-0.45544	0.00535	0.00046
47	-0.45421	0.00580	0.00346	-0.45746	0.00255	0.00022
48	-0.44837	0.01025	0.00613	-0.45412	0.00451	0.00038
49	-0.45339	0.00717	0.00428	-0.45740	0.00315	0.00027
50	-0.44914	0.01220	0.00729	-0.45598	0.00536	0.00046
51	-0.44864	0.01085	0.00648	-0.45471	0.00477	0.00041
52	-0.44889	0.01061	0.00634	-0.45484	0.00467	0.00040
53	-0.44906	0.01127	0.00673	-0.45537	0.00495	0.00042
54	-0.44460	0.01523	0.00910	-0.45314	0.00670	0.00057
55	-0.45035	0.00969	0.00579	-0.45578	0.00426	0.00036
56	-0.44824	0.01129	0.00675	-0.45457	0.00496	0.00042
57	-0.44509	0.01573	0.00940	-0.45390	0.00692	0.00059
58	-0.45092	0.00956	0.00572	-0.45628	0.00420	0.00036
59	-0.44873	0.01242	0.00742	-0.45569	0.00546	0.00046
60	-0.45014	0.00824	0.00492	-0.45475	0.00362	0.00031
61	-0.45367	0.00517	0.00309	-0.45657	0.00227	0.00019
62	-0.44882	0.01079	0.00645	-0.45486	0.00475	0.00040
63	-0.45254	0.00957	0.00458	-0.45607	0.00603	0.00105
64	-0.45028	0.01214	0.00581	-0.45477	0.00765	0.00133
65	-0.44254	0.01931	0.00925	-0.44968	0.01217	0.00211
66	-0.44820	0.01214	0.00581	-0.45269	0.00765	0.00133
67	-0.44712	0.01775	0.00850	-0.45368	0.01119	0.00194
68	-0.44621	0.01930	0.00924	-0.45335	0.01216	0.00211
69	-0.45029	0.01707	0.00817	-0.45660	0.01076	0.00186
70	-0.45031	0.00997	0.00477	-0.45399	0.00629	0.00109
71	-0.45516	0.00492	0.00236	-0.45698	0.00310	0.00054
72	-0.45072	0.01156	0.00554	-0.45499	0.00729	0.00126
73	-0.45279	0.00922	0.00442	-0.45620	0.00581	0.00101
74	-0.45664	0.00296	0.00142	-0.45774	0.00186	0.00032
75	-0.45530	0.00426	0.00204	-0.45687	0.00269	0.00047
76	-0.45566	0.00277	0.00133	-0.45668	0.00174	0.00030

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.24 The Elasticities with respect to Employment Rates from Model 3 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.06157	-0.01561	-0.00265	0.05506	-0.02212	-0.00915
2	0.06894	-0.00789	-0.00134	0.06565	-0.01118	-0.00463
3	0.07513	-0.00226	-0.00038	0.07419	-0.00321	-0.00133
4	0.07497	-0.00198	-0.00034	0.07414	-0.00281	-0.00116
5	0.07619	-0.00125	-0.00021	0.07567	-0.00177	-0.00073
6	0.07578	-0.00121	-0.00021	0.07527	-0.00172	-0.00071
7	0.07544	-0.00125	-0.00021	0.07492	-0.00177	-0.00073
8	0.07572	-0.00138	-0.00023	0.07515	-0.00195	-0.00081
9	0.07702	-0.00030	-0.00005	0.07690	-0.00043	-0.00018
10	0.07499	-0.00181	-0.00031	0.07424	-0.00257	-0.00106
11	0.07562	-0.00182	-0.00031	0.07487	-0.00257	-0.00106
12	0.07642	-0.00095	-0.00016	0.07602	-0.00134	-0.00055
13	0.07694	-0.00084	-0.00014	0.07659	-0.00119	-0.00049
14	0.07692	-0.00090	-0.00015	0.07655	-0.00127	-0.00053
15	0.07628	-0.00087	-0.00015	0.07592	-0.00123	-0.00051
16	0.07611	-0.00077	-0.00013	0.07579	-0.00109	-0.00045
17	0.07713	-0.00048	-0.00008	0.07693	-0.00068	-0.00028
18	0.07571	-0.00018	-0.00003	0.07564	-0.00026	-0.00011
19	0.07518	-0.00192	-0.00032	0.07438	-0.00272	-0.00112
20	0.07648	-0.00068	-0.00012	0.07619	-0.00097	-0.00040
21	0.07716	-0.00063	-0.00011	0.07690	-0.00090	-0.00037
22	0.07388	-0.00372	-0.00063	0.07233	-0.00527	-0.00218
23	0.07672	-0.00101	-0.00017	0.07630	-0.00144	-0.00059
24	0.07734	-0.00048	-0.00008	0.07714	-0.00069	-0.00028
25	0.07691	-0.00050	-0.00008	0.07671	-0.00071	-0.00029
26	0.07731	-0.00052	-0.00009	0.07710	-0.00074	-0.00031
27	0.05066	-0.00140	-0.00045	0.05098	-0.00108	-0.00013
28	0.05093	-0.00119	-0.00038	0.05120	-0.00092	-0.00011
29	0.05032	-0.00145	-0.00047	0.05065	-0.00112	-0.00014
30	0.04907	-0.00253	-0.00082	0.04965	-0.00195	-0.00024
31	0.05092	-0.00121	-0.00039	0.05119	-0.00093	-0.00011
32	0.05141	-0.00070	-0.00023	0.05157	-0.00054	-0.00007
33	0.05120	-0.00053	-0.00017	0.05132	-0.00041	-0.00005
34	0.05138	-0.00057	-0.00018	0.05151	-0.00044	-0.00005
35	0.05032	-0.00008	-0.00003	0.05034	-0.00006	-0.00001
36	0.04921	-0.00311	-0.00101	0.04992	-0.00240	-0.00029
37	0.05020	-0.00208	-0.00067	0.05068	-0.00161	-0.00020
38	0.04992	-0.00247	-0.00080	0.05049	-0.00191	-0.00023
39	0.05072	-0.00116	-0.00037	0.05099	-0.00089	-0.00011
40	0.04926	-0.00213	-0.00069	0.04975	-0.00164	-0.00020
41	0.04956	-0.00205	-0.00066	0.05003	-0.00158	-0.00019
42	0.04995	-0.00170	-0.00055	0.05034	-0.00131	-0.00016
43	0.05035	-0.00130	-0.00042	0.05064	-0.00100	-0.00012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	0.04009	-0.00132	-0.00079	0.04083	-0.00058	-0.00005
45	0.04056	-0.00078	-0.00046	0.04099	-0.00034	-0.00003
46	0.04122	-0.00112	-0.00067	0.04184	-0.00049	-0.00004
47	0.04149	-0.00053	-0.00032	0.04178	-0.00023	-0.00002
48	0.03954	-0.00090	-0.00054	0.04004	-0.00040	-0.00003
49	0.04160	-0.00066	-0.00039	0.04197	-0.00029	-0.00002
50	0.04118	-0.00112	-0.00067	0.04180	-0.00049	-0.00004
51	0.04051	-0.00098	-0.00059	0.04106	-0.00043	-0.00004
52	0.04014	-0.00095	-0.00057	0.04067	-0.00042	-0.00004
53	0.04045	-0.00101	-0.00061	0.04102	-0.00045	-0.00004
54	0.04035	-0.00138	-0.00083	0.04113	-0.00061	-0.00005
55	0.04108	-0.00088	-0.00053	0.04157	-0.00039	-0.00003
56	0.04082	-0.00103	-0.00061	0.04140	-0.00045	-0.00004
57	0.04065	-0.00144	-0.00086	0.04146	-0.00063	-0.00005
58	0.04102	-0.00087	-0.00052	0.04151	-0.00038	-0.00003
59	0.04141	-0.00115	-0.00068	0.04206	-0.00050	-0.00004
60	0.03930	-0.00072	-0.00043	0.03970	-0.00032	-0.00003
61	0.04090	-0.00047	-0.00028	0.04116	-0.00020	-0.00002
62	0.04089	-0.00098	-0.00059	0.04144	-0.00043	-0.00004
63	0.04086	-0.00086	-0.00041	0.04118	-0.00054	-0.00009
64	0.04100	-0.00111	-0.00053	0.04141	-0.00070	-0.00012
65	0.04019	-0.00175	-0.00084	0.04083	-0.00111	-0.00019
66	0.04085	-0.00111	-0.00053	0.04126	-0.00070	-0.00012
67	0.04057	-0.00161	-0.00077	0.04117	-0.00102	-0.00018
68	0.04048	-0.00175	-0.00084	0.04113	-0.00110	-0.00019
69	0.04052	-0.00154	-0.00074	0.04109	-0.00097	-0.00017
70	0.04089	-0.00091	-0.00043	0.04122	-0.00057	-0.00010
71	0.04132	-0.00045	-0.00021	0.04148	-0.00028	-0.00005
72	0.04117	-0.00106	-0.00051	0.04156	-0.00067	-0.00012
73	0.04130	-0.00084	-0.00040	0.04161	-0.00053	-0.00009
74	0.04154	-0.00027	-0.00013	0.04164	-0.00017	-0.00003
75	0.04177	-0.00039	-0.00019	0.04191	-0.00025	-0.00004
76	0.04128	-0.00025	-0.00012	0.04138	-0.00016	-0.00003

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.25 The Elasticities with respect to Distances from Model 3 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.90324	0.22903	0.03883	-0.80780	0.32446	0.13426
2	-1.14250	0.13078	0.02217	-1.08801	0.18527	0.07667
3	-1.10272	0.03323	0.00563	-1.08887	0.04707	0.01948
4	-1.09104	0.02888	0.00490	-1.07900	0.04092	0.01693
5	-1.07422	0.01766	0.00299	-1.06687	0.02501	0.01035
6	-1.08735	0.01742	0.00295	-1.08009	0.02468	0.01021
7	-1.22973	0.02033	0.00345	-1.22126	0.02880	0.01192
8	-1.13678	0.02064	0.00350	-1.12818	0.02924	0.01210
9	-1.25957	0.00496	0.00084	-1.25751	0.00702	0.00291
10	-1.01877	0.02462	0.00417	-1.00851	0.03487	0.01443
11	-1.31904	0.03166	0.00537	-1.30585	0.04486	0.01856
12	-1.56835	0.01941	0.00329	-1.56026	0.02750	0.01138
13	-1.73279	0.01890	0.00321	-1.72491	0.02678	0.01108
14	-1.92651	0.02244	0.00380	-1.91716	0.03179	0.01315
15	-1.22391	0.01392	0.00236	-1.21811	0.01972	0.00816
16	-1.23421	0.01243	0.00211	-1.22903	0.01761	0.00729
17	-1.12705	0.00700	0.00119	-1.12413	0.00991	0.00410
18	-1.49056	0.00356	0.00060	-1.48907	0.00505	0.00209
19	-1.33317	0.03399	0.00576	-1.31901	0.04815	0.01992
20	-1.42640	0.01271	0.00216	-1.42110	0.01801	0.00745
21	-1.23842	0.01015	0.00172	-1.23418	0.01438	0.00595
22	-1.20319	0.06057	0.01027	-1.17795	0.08580	0.03551
23	-1.20115	0.01587	0.00269	-1.19454	0.02249	0.00931
24	-1.28736	0.00806	0.00137	-1.28400	0.01142	0.00473
25	-1.41271	0.00916	0.00155	-1.40890	0.01298	0.00537
26	-1.79186	0.01208	0.00205	-1.78683	0.01711	0.00708
27	-1.48557	0.04091	0.01325	-1.49494	0.03154	0.00388
28	-1.44201	0.03362	0.01089	-1.44971	0.02591	0.00319
29	-1.31185	0.03793	0.01228	-1.32054	0.02924	0.00359
30	-1.07044	0.05523	0.01789	-1.08309	0.04258	0.00524
31	-1.21138	0.02876	0.00931	-1.21797	0.02217	0.00273
32	-1.44939	0.01965	0.00636	-1.45390	0.01515	0.00186
33	-1.50328	0.01547	0.00501	-1.50682	0.01192	0.00147
34	-1.70805	0.01889	0.00612	-1.71238	0.01457	0.00179
35	-2.04508	0.00341	0.00111	-2.04586	0.00263	0.00032
36	-0.79902	0.05045	0.01634	-0.81057	0.03889	0.00478
37	-0.84094	0.03491	0.01131	-0.84894	0.02691	0.00331
38	-0.95554	0.04733	0.01533	-0.96638	0.03649	0.00449
39	-1.06068	0.02416	0.00783	-1.06621	0.01863	0.00229
40	-0.98108	0.04233	0.01371	-0.99078	0.03263	0.00401
41	-0.89290	0.03687	0.01194	-0.90135	0.02842	0.00349
42	-0.88946	0.03021	0.00978	-0.89638	0.02329	0.00286
43	-0.85763	0.02215	0.00717	-0.86271	0.01708	0.00210
44	-0.60745	0.01998	0.01194	-0.61865	0.00878	0.00075
45	-0.69661	0.01334	0.00798	-0.70409	0.00587	0.00050
46	-0.74234	0.02014	0.01204	-0.75363	0.00886	0.00075
47	-0.86251	0.01101	0.00658	-0.86868	0.00484	0.00041
48	-0.91373	0.02089	0.01249	-0.92544	0.00919	0.00078
49	-0.80206	0.01268	0.00758	-0.80917	0.00557	0.00047
50	-0.62188	0.01689	0.01009	-0.63134	0.00742	0.00063
51	-0.88243	0.02133	0.01275	-0.89438	0.00938	0.00080
52	-0.78285	0.01851	0.01106	-0.79322	0.00814	0.00069
53	-0.67644	0.01697	0.01014	-0.68595	0.00746	0.00063
54	-0.83158	0.02849	0.01703	-0.84755	0.01253	0.00107
55	-0.82183	0.01768	0.01057	-0.83174	0.00777	0.00066
56	-0.92275	0.02324	0.01389	-0.93577	0.01022	0.00087
57	-0.69890	0.02470	0.01477	-0.71274	0.01086	0.00092
58	-0.74305	0.01576	0.00942	-0.75188	0.00693	0.00059
59	-0.74335	0.02057	0.01230	-0.75488	0.00904	0.00077
60	-0.92119	0.01686	0.01008	-0.93064	0.00741	0.00063
61	-1.05657	0.01204	0.00719	-1.06332	0.00529	0.00045
62	-0.95530	0.02297	0.01373	-0.96817	0.01010	0.00086
63	-1.65268	0.03496	0.01674	-1.66560	0.02204	0.00382
64	-1.65426	0.04460	0.02135	-1.67075	0.02811	0.00487
65	-1.63636	0.07140	0.03419	-1.66275	0.04501	0.00780
66	-1.82737	0.04948	0.02369	-1.84565	0.03119	0.00540
67	-1.40189	0.05565	0.02665	-1.42246	0.03508	0.00608
68	-1.32511	0.05731	0.02744	-1.34629	0.03613	0.00626
69	-1.16691	0.04424	0.02118	-1.18326	0.02789	0.00483
70	-1.92340	0.04259	0.02039	-1.93914	0.02685	0.00465
71	-1.94209	0.02101	0.01006	-1.94986	0.01324	0.00230
72	-1.72191	0.04417	0.02115	-1.73824	0.02784	0.00483
73	-1.75255	0.03570	0.01710	-1.76574	0.02251	0.00390
74	-2.05281	0.01330	0.00637	-2.05773	0.00838	0.00145
75	-2.13010	0.01993	0.00954	-2.13746	0.01256	0.00218
76	-2.19843	0.01336	0.00640	-2.20336	0.00842	0.00146

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.26 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.56001	0.14200	0.02408	-0.50085	0.20117	0.08324
2	-0.88357	0.10114	0.01715	-0.84142	0.14328	0.05929
3	-0.76935	0.02318	0.00393	-0.75969	0.03284	0.01359
4	-1.00073	0.02649	0.00449	-0.98969	0.03753	0.01553
5	-1.11176	0.01827	0.00310	-1.10414	0.02589	0.01071
6	-0.89370	0.01432	0.00243	-0.88773	0.02029	0.00840
7	-0.97131	0.01606	0.00272	-0.96461	0.02275	0.00941
8	-0.89404	0.01624	0.00275	-0.88727	0.02300	0.00952
9	-1.38243	0.00544	0.00092	-1.38017	0.00771	0.00319
10	-0.90517	0.02187	0.00371	-0.89605	0.03099	0.01282
11	-0.85077	0.02042	0.00346	-0.84226	0.02893	0.01197
12	-0.97430	0.01206	0.00204	-0.96928	0.01709	0.00707
13	-1.07315	0.01171	0.00199	-1.06827	0.01659	0.00686
14	-0.70499	0.00821	0.00139	-0.70157	0.01163	0.00481
15	-1.15937	0.01319	0.00224	-1.15387	0.01868	0.00773
16	-1.15389	0.01162	0.00197	-1.14905	0.01646	0.00681
17	-1.34331	0.00834	0.00141	-1.33984	0.01181	0.00489
18	-1.27477	0.00305	0.00052	-1.27350	0.00432	0.00179
19	-0.75891	0.01935	0.00328	-0.75085	0.02741	0.01134
20	-1.03422	0.00922	0.00156	-1.03038	0.01306	0.00540
21	-1.12114	0.00919	0.00156	-1.11731	0.01302	0.00539
22	-0.57674	0.02903	0.00492	-0.56464	0.04113	0.01702
23	-0.83906	0.01109	0.00188	-0.83444	0.01571	0.00650
24	-1.19497	0.00748	0.00127	-1.19185	0.01060	0.00439
25	-1.28221	0.00832	0.00141	-1.27874	0.01178	0.00488
26	-1.13821	0.00767	0.00130	-1.13501	0.01087	0.00450
27	-0.66531	0.01832	0.00593	-0.66951	0.01413	0.00174
28	-0.79348	0.01850	0.00599	-0.79772	0.01426	0.00175
29	-0.66127	0.01912	0.00619	-0.66565	0.01474	0.00181
30	-0.76182	0.03931	0.01273	-0.77082	0.03030	0.00373
31	-0.77385	0.01837	0.00595	-0.77806	0.01416	0.00174
32	-0.93223	0.01264	0.00409	-0.93513	0.00974	0.00120
33	-1.04134	0.01071	0.00347	-1.04380	0.00826	0.00102
34	-0.90782	0.01004	0.00325	-0.91012	0.00774	0.00095
35	-1.12955	0.00189	0.00061	-1.12999	0.00145	0.00018
36	-0.46526	0.02937	0.00951	-0.47199	0.02264	0.00278
37	-0.75489	0.03134	0.01015	-0.76207	0.02416	0.00297
38	-0.64368	0.03188	0.01033	-0.65098	0.02458	0.00302
39	-0.80697	0.01838	0.00595	-0.81118	0.01417	0.00174
40	-0.54292	0.02343	0.00759	-0.54829	0.01806	0.00222
41	-0.73928	0.03053	0.00989	-0.74628	0.02353	0.00289
42	-0.79403	0.02697	0.00873	-0.80021	0.02079	0.00256
43	-0.84819	0.02191	0.00710	-0.85321	0.01689	0.00208
44	-0.68056	0.02238	0.01338	-0.69310	0.00984	0.00084
45	-0.73314	0.01404	0.00839	-0.74100	0.00617	0.00053
46	-0.69488	0.01885	0.01127	-0.70544	0.00829	0.00070
47	-0.93283	0.01190	0.00712	-0.93950	0.00523	0.00045
48	-0.69528	0.01590	0.00950	-0.70419	0.00699	0.00059
49	-0.81728	0.01292	0.00772	-0.82451	0.00568	0.00048
50	-0.68741	0.01867	0.01116	-0.69787	0.00821	0.00070
51	-0.70706	0.01709	0.01022	-0.71663	0.00751	0.00064
52	-0.72814	0.01721	0.01029	-0.73779	0.00757	0.00064
53	-0.68309	0.01714	0.01024	-0.69270	0.00753	0.00064
54	-0.64756	0.02218	0.01326	-0.65999	0.00975	0.00083
55	-0.86222	0.01855	0.01109	-0.87261	0.00816	0.00069
56	-0.70255	0.01770	0.01058	-0.71246	0.00778	0.00066
57	-0.56248	0.01988	0.01188	-0.57362	0.00874	0.00074
58	-0.72053	0.01528	0.00913	-0.72909	0.00672	0.00057
59	-0.64713	0.01791	0.01070	-0.65717	0.00787	0.00067
60	-0.79737	0.01459	0.00872	-0.80555	0.00642	0.00055
61	-0.90168	0.01027	0.00614	-0.90743	0.00452	0.00038
62	-0.75043	0.01805	0.01079	-0.76054	0.00793	0.00067
63	-0.55089	0.01165	0.00558	-0.55520	0.00735	0.00127
64	-0.39476	0.01064	0.00510	-0.39869	0.00671	0.00116
65	-0.37707	0.01645	0.00788	-0.38315	0.01037	0.00180
66	-0.50744	0.01374	0.00658	-0.51252	0.00866	0.00150
67	-0.48203	0.01913	0.00916	-0.48910	0.01206	0.00209
68	-0.50207	0.02171	0.01040	-0.51010	0.01369	0.00237
69	-0.48116	0.01824	0.00873	-0.48790	0.01150	0.00199
70	-0.51880	0.01149	0.00550	-0.52305	0.00724	0.00125
71	-0.68945	0.00746	0.00357	-0.69221	0.00470	0.00081
72	-0.51902	0.01331	0.00638	-0.52395	0.00839	0.00145
73	-0.59398	0.01210	0.00579	-0.59845	0.00763	0.00132
74	-0.80086	0.00519	0.00248	-0.80278	0.00327	0.00057
75	-0.72225	0.00676	0.00324	-0.72475	0.00426	0.00074
76	-0.63307	0.00385	0.00184	-0.63449	0.00242	0.00042

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.27 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 1 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.76963	0.44871	0.07608	-1.58266	0.63568	0.26305
2	-2.10109	0.24051	0.04078	-2.00088	0.34072	0.14099
3	-1.69445	0.05106	0.00866	-1.67318	0.07233	0.02993
4	-1.57257	0.04163	0.00706	-1.55522	0.05897	0.02440
5	-1.85215	0.03044	0.00516	-1.83946	0.04313	0.01785
6	-1.99079	0.03190	0.00541	-1.97750	0.04519	0.01870
7	-1.71395	0.02834	0.00480	-1.70214	0.04014	0.01661
8	-1.94366	0.03530	0.00598	-1.92895	0.05000	0.02069
9	-2.66563	0.01049	0.00178	-2.66126	0.01486	0.00615
10	-1.68790	0.04079	0.00692	-1.67091	0.05778	0.02391
11	-1.64284	0.03944	0.00669	-1.62641	0.05587	0.02312
12	-1.74004	0.02154	0.00365	-1.73107	0.03051	0.01263
13	-1.64060	0.01790	0.00303	-1.63314	0.02536	0.01049
14	-1.66461	0.01939	0.00329	-1.65654	0.02747	0.01137
15	-2.04859	0.02330	0.00395	-2.03888	0.03301	0.01366
16	-2.12367	0.02138	0.00363	-2.11476	0.03029	0.01254
17	-2.44460	0.01517	0.00257	-2.43827	0.02150	0.00890
18	-2.94036	0.00703	0.00119	-2.93743	0.00996	0.00412
19	-1.48094	0.03775	0.00640	-1.46521	0.05348	0.02213
20	-2.14017	0.01908	0.00323	-2.13222	0.02702	0.01118
21	-2.36244	0.01937	0.00328	-2.35437	0.02744	0.01135
22	-1.07331	0.05403	0.00916	-1.05080	0.07654	0.03167
23	-2.02629	0.02678	0.00454	-2.01513	0.03793	0.01570
24	-2.31007	0.01446	0.00245	-2.30404	0.02049	0.00848
25	-2.25207	0.01461	0.00248	-2.24598	0.02069	0.00856
26	-2.08972	0.01409	0.00239	-2.08385	0.01996	0.00826
27	-1.34370	0.03701	0.01199	-1.35217	0.02853	0.00351
28	-1.40453	0.03274	0.01060	-1.41203	0.02524	0.00310
29	-1.27211	0.03678	0.01191	-1.28054	0.02835	0.00349
30	-1.36235	0.07030	0.02277	-1.37845	0.05419	0.00666
31	-1.58880	0.03772	0.01222	-1.59744	0.02908	0.00358
32	-1.88299	0.02553	0.00827	-1.88883	0.01968	0.00242
33	-1.96245	0.02019	0.00654	-1.96708	0.01556	0.00191
34	-1.95784	0.02166	0.00701	-1.96280	0.01670	0.00205
35	-3.05332	0.00510	0.00165	-3.05449	0.00393	0.00048
36	-1.31077	0.08276	0.02680	-1.32973	0.06380	0.00784
37	-1.46887	0.06097	0.01975	-1.48284	0.04700	0.00578
38	-1.27951	0.06337	0.02053	-1.29403	0.04886	0.00601
39	-1.79454	0.04088	0.01324	-1.80390	0.03151	0.00387
40	-1.43062	0.06173	0.01999	-1.44476	0.04759	0.00585
41	-1.39683	0.05768	0.01868	-1.41004	0.04446	0.00547
42	-1.50120	0.05098	0.01651	-1.51288	0.03930	0.00483
43	-1.76852	0.04568	0.01480	-1.77899	0.03522	0.00433

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.15422	0.03796	0.02269	-1.17549	0.01669	0.00142
45	-1.62423	0.03111	0.01860	-1.64167	0.01368	0.00116
46	-1.33084	0.03611	0.02158	-1.35107	0.01588	0.00135
47	-1.69663	0.02165	0.01294	-1.70876	0.00952	0.00081
48	-1.28292	0.02934	0.01754	-1.29936	0.01290	0.00110
49	-1.57172	0.02484	0.01485	-1.58564	0.01092	0.00093
50	-1.31585	0.03573	0.02136	-1.33587	0.01571	0.00134
51	-1.17623	0.02843	0.01700	-1.19216	0.01250	0.00106
52	-1.40901	0.03331	0.01991	-1.42768	0.01465	0.00125
53	-1.38738	0.03481	0.02080	-1.40688	0.01530	0.00130
54	-1.09164	0.03740	0.02235	-1.11260	0.01644	0.00140
55	-1.24493	0.02678	0.01601	-1.25994	0.01178	0.00100
56	-1.20180	0.03027	0.01810	-1.21876	0.01331	0.00113
57	-1.15061	0.04067	0.02431	-1.17340	0.01788	0.00152
58	-1.45487	0.03086	0.01844	-1.47216	0.01357	0.00115
59	-1.24763	0.03452	0.02064	-1.26697	0.01518	0.00129
60	-1.37436	0.02515	0.01504	-1.38846	0.01106	0.00094
61	-1.58237	0.01803	0.01077	-1.59247	0.00793	0.00067
62	-1.12431	0.02704	0.01616	-1.13946	0.01189	0.00101
63	-1.06083	0.02244	0.01075	-1.06913	0.01415	0.00245
64	-0.96824	0.02610	0.01250	-0.97789	0.01645	0.00285
65	-0.58735	0.02563	0.01227	-0.59682	0.01616	0.00280
66	-0.82449	0.02232	0.01069	-0.83274	0.01407	0.00244
67	-0.80771	0.03206	0.01535	-0.81956	0.02021	0.00350
68	-0.93015	0.04023	0.01926	-0.94502	0.02536	0.00439
69	-1.02351	0.03880	0.01858	-1.03785	0.02446	0.00424
70	-0.84187	0.01864	0.00893	-0.84876	0.01175	0.00204
71	-1.28223	0.01387	0.00664	-1.28735	0.00874	0.00152
72	-0.87254	0.02238	0.01072	-0.88081	0.01411	0.00244
73	-1.02039	0.02079	0.00995	-1.02807	0.01310	0.00227
74	-1.59096	0.01031	0.00494	-1.59477	0.00650	0.00113
75	-1.27441	0.01192	0.00571	-1.27882	0.00752	0.00130
76	-1.61862	0.00983	0.00471	-1.62225	0.00620	0.00107

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.28 The Elasticities with respect to Wages from Model 2 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.29941	0.01352	-0.04512	0.25893	-0.02696	-0.08559
2	0.29465	0.01276	-0.04258	0.25645	-0.02544	-0.08077
3	0.28771	0.00178	-0.00595	0.28237	-0.00356	-0.01129
4	0.28733	0.00179	-0.00596	0.28198	-0.00356	-0.01131
5	0.28781	0.00180	-0.00600	0.28243	-0.00359	-0.01138
6	0.28741	0.00178	-0.00595	0.28207	-0.00356	-0.01129
7	0.28278	0.00167	-0.00557	0.27778	-0.00333	-0.01057
8	0.28519	0.00173	-0.00579	0.28000	-0.00346	-0.01098
9	0.28287	0.00166	-0.00553	0.27792	-0.00330	-0.01048
10	0.28919	0.00183	-0.00610	0.28372	-0.00365	-0.01158
11	0.28153	0.00163	-0.00543	0.27666	-0.00325	-0.01030
12	0.27566	0.00148	-0.00493	0.27124	-0.00295	-0.00935
13	0.27285	0.00139	-0.00463	0.26870	-0.00277	-0.00879
14	0.26974	0.00129	-0.00431	0.26588	-0.00257	-0.00817
15	0.28344	0.00169	-0.00565	0.27837	-0.00338	-0.01073
16	0.28383	0.00169	-0.00564	0.27877	-0.00337	-0.01069
17	0.28648	0.00176	-0.00588	0.28120	-0.00351	-0.01116
18	0.27581	0.00151	-0.00504	0.27129	-0.00301	-0.00956
19	0.28009	0.00161	-0.00537	0.27527	-0.00321	-0.01018
20	0.27915	0.00157	-0.00523	0.27445	-0.00313	-0.00992
21	0.28410	0.00169	-0.00563	0.27905	-0.00336	-0.01068
22	0.28324	0.00168	-0.00561	0.27821	-0.00335	-0.01065
23	0.28502	0.00172	-0.00574	0.27987	-0.00343	-0.01090
24	0.28281	0.00167	-0.00556	0.27783	-0.00332	-0.01054
25	0.27890	0.00158	-0.00526	0.27418	-0.00314	-0.00998
26	0.27083	0.00136	-0.00454	0.26676	-0.00271	-0.00860
27	0.80008	-0.01286	-0.00229	0.80118	-0.01175	-0.00118
28	0.79925	-0.01387	-0.00247	0.80045	-0.01268	-0.00127
29	0.79641	-0.01658	-0.00295	0.79783	-0.01516	-0.00152
30	0.78959	-0.02284	-0.00406	0.79155	-0.02088	-0.00210
31	0.79321	-0.01936	-0.00344	0.79487	-0.01770	-0.00178
32	0.79812	-0.01388	-0.00247	0.79931	-0.01269	-0.00128
33	0.79981	-0.01294	-0.00230	0.80092	-0.01183	-0.00119
34	0.80333	-0.00956	-0.00170	0.80415	-0.00874	-0.00088
35	0.81108	-0.00624	-0.00111	0.81161	-0.00571	-0.00057
36	0.77749	-0.03493	-0.00621	0.78049	-0.03193	-0.00321
37	0.77798	-0.03452	-0.00614	0.78094	-0.03155	-0.00317
38	0.78443	-0.02769	-0.00492	0.78681	-0.02531	-0.00254
39	0.78761	-0.02448	-0.00435	0.78971	-0.02238	-0.00225
40	0.78576	-0.02646	-0.00470	0.78804	-0.02419	-0.00243
41	0.78240	-0.03032	-0.00539	0.78500	-0.02771	-0.00278
42	0.78128	-0.03102	-0.00551	0.78394	-0.02836	-0.00285
43	0.78021	-0.03301	-0.00587	0.78304	-0.03018	-0.00303

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	0.81773	-0.03238	-0.00662	0.82145	-0.02865	-0.00290
45	0.82244	-0.02782	-0.00569	0.82564	-0.02462	-0.00249
46	0.82519	-0.02564	-0.00525	0.82815	-0.02269	-0.00230
47	0.82995	-0.02089	-0.00427	0.83236	-0.01848	-0.00187
48	0.83217	-0.01848	-0.00378	0.83430	-0.01636	-0.00165
49	0.82822	-0.02281	-0.00467	0.83084	-0.02018	-0.00204
50	0.81971	-0.03071	-0.00628	0.82324	-0.02718	-0.00275
51	0.83143	-0.01947	-0.00398	0.83367	-0.01723	-0.00174
52	0.82870	-0.02196	-0.00449	0.83123	-0.01944	-0.00197
53	0.82416	-0.02751	-0.00563	0.82733	-0.02435	-0.00246
54	0.83135	-0.01997	-0.00409	0.83365	-0.01767	-0.00179
55	0.83007	-0.02041	-0.00417	0.83242	-0.01806	-0.00183
56	0.83455	-0.01717	-0.00351	0.83652	-0.01519	-0.00154
57	0.82500	-0.02666	-0.00545	0.82806	-0.02359	-0.00239
58	0.82658	-0.02506	-0.00513	0.82946	-0.02218	-0.00224
59	0.82740	-0.02466	-0.00505	0.83024	-0.02182	-0.00221
60	0.83321	-0.01775	-0.00363	0.83525	-0.01571	-0.00159
61	0.83656	-0.01409	-0.00288	0.83818	-0.01247	-0.00126
62	0.83480	-0.01721	-0.00352	0.83678	-0.01523	-0.00154
63	0.26646	0.00808	-0.01230	0.27385	0.01548	-0.00490
64	0.26516	0.00800	-0.01217	0.27247	0.01531	-0.00485
65	0.26335	0.00789	-0.01200	0.27056	0.01510	-0.00479
66	0.26085	0.00715	-0.01088	0.26739	0.01369	-0.00434
67	0.26579	0.00905	-0.01377	0.27406	0.01733	-0.00549
68	0.26272	0.00926	-0.01408	0.27118	0.01772	-0.00562
69	0.26418	0.01014	-0.01543	0.27345	0.01942	-0.00615
70	0.26508	0.00696	-0.01059	0.27145	0.01333	-0.00423
71	0.26387	0.00693	-0.01054	0.27020	0.01326	-0.00420
72	0.26666	0.00778	-0.01183	0.27378	0.01489	-0.00472
73	0.26674	0.00769	-0.01170	0.27378	0.01472	-0.00466
74	0.26297	0.00655	-0.00996	0.26896	0.01254	-0.00397
75	0.26166	0.00623	-0.00949	0.26736	0.01194	-0.00378
76	0.25983	0.00598	-0.00910	0.26530	0.01146	-0.00363

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.29 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.05831	0.00263	-0.00879	0.05043	-0.00525	-0.01667
2	0.05772	0.00250	-0.00834	0.05023	-0.00498	-0.01582
3	0.05630	0.00035	-0.00116	0.05526	-0.00070	-0.00221
4	0.05590	0.00035	-0.00116	0.05486	-0.00069	-0.00220
5	0.05585	0.00035	-0.00116	0.05481	-0.00070	-0.00221
6	0.05587	0.00035	-0.00116	0.05483	-0.00069	-0.00220
7	0.05548	0.00033	-0.00109	0.05450	-0.00065	-0.00207
8	0.05549	0.00034	-0.00113	0.05448	-0.00067	-0.00214
9	0.05569	0.00033	-0.00109	0.05472	-0.00065	-0.00206
10	0.05585	0.00035	-0.00118	0.05479	-0.00070	-0.00224
11	0.05601	0.00032	-0.00108	0.05504	-0.00065	-0.00205
12	0.05569	0.00030	-0.00100	0.05479	-0.00060	-0.00189
13	0.05609	0.00029	-0.00095	0.05523	-0.00057	-0.00181
14	0.05632	0.00027	-0.00090	0.05551	-0.00054	-0.00171
15	0.05551	0.00033	-0.00111	0.05452	-0.00066	-0.00210
16	0.05604	0.00033	-0.00111	0.05505	-0.00066	-0.00211
17	0.05600	0.00034	-0.00115	0.05497	-0.00069	-0.00218
18	0.05450	0.00030	-0.00100	0.05361	-0.00060	-0.00189
19	0.05585	0.00032	-0.00107	0.05489	-0.00064	-0.00203
20	0.05629	0.00032	-0.00105	0.05534	-0.00063	-0.00200
21	0.05623	0.00033	-0.00111	0.05523	-0.00067	-0.00211
22	0.05596	0.00033	-0.00111	0.05497	-0.00066	-0.00210
23	0.05621	0.00034	-0.00113	0.05520	-0.00068	-0.00215
24	0.05641	0.00033	-0.00111	0.05542	-0.00066	-0.00210
25	0.05618	0.00032	-0.00106	0.05523	-0.00063	-0.00201
26	0.05610	0.00028	-0.00094	0.05526	-0.00056	-0.00178
27	0.17507	-0.00281	-0.00050	0.17531	-0.00257	-0.00026
28	0.17598	-0.00305	-0.00054	0.17625	-0.00279	-0.00028
29	0.17381	-0.00362	-0.00064	0.17412	-0.00331	-0.00033
30	0.17348	-0.00502	-0.00089	0.17391	-0.00459	-0.00046
31	0.17445	-0.00426	-0.00076	0.17481	-0.00389	-0.00039
32	0.17246	-0.00300	-0.00053	0.17272	-0.00274	-0.00028
33	0.17528	-0.00284	-0.00050	0.17553	-0.00259	-0.00026
34	0.17535	-0.00209	-0.00037	0.17553	-0.00191	-0.00019
35	0.17316	-0.00133	-0.00024	0.17328	-0.00122	-0.00012
36	0.17189	-0.00772	-0.00137	0.17255	-0.00706	-0.00071
37	0.17253	-0.00765	-0.00136	0.17319	-0.00700	-0.00070
38	0.17254	-0.00609	-0.00108	0.17306	-0.00557	-0.00056
39	0.17402	-0.00541	-0.00096	0.17448	-0.00494	-0.00050
40	0.17096	-0.00576	-0.00102	0.17146	-0.00526	-0.00053
41	0.17229	-0.00668	-0.00119	0.17287	-0.00610	-0.00061
42	0.17130	-0.00680	-0.00121	0.17188	-0.00622	-0.00062
43	0.17158	-0.00726	-0.00129	0.17220	-0.00664	-0.00067
44	0.17755	-0.00703	-0.00144	0.17836	-0.00622	-0.00063
45	0.17806	-0.00602	-0.00123	0.17876	-0.00533	-0.00054
46	0.18295	-0.00569	-0.00116	0.18361	-0.00503	-0.00051
47	0.18016	-0.00453	-0.00093	0.18068	-0.00401	-0.00041
48	0.17798	-0.00395	-0.00081	0.17844	-0.00350	-0.00035
49	0.18090	-0.00498	-0.00102	0.18148	-0.00441	-0.00045
50	0.17989	-0.00674	-0.00138	0.18067	-0.00596	-0.00060
51	0.18276	-0.00428	-0.00088	0.18325	-0.00379	-0.00038
52	0.17552	-0.00465	-0.00095	0.17605	-0.00412	-0.00042
53	0.18022	-0.00602	-0.00123	0.18092	-0.00532	-0.00054
54	0.17724	-0.00426	-0.00087	0.17773	-0.00377	-0.00038
55	0.18102	-0.00445	-0.00091	0.18153	-0.00394	-0.00040
56	0.18326	-0.00377	-0.00077	0.18370	-0.00334	-0.00034
57	0.17981	-0.00581	-0.00119	0.18048	-0.00514	-0.00052
58	0.18152	-0.00550	-0.00113	0.18215	-0.00487	-0.00049
59	0.18301	-0.00545	-0.00112	0.18364	-0.00483	-0.00049
60	0.17898	-0.00381	-0.00078	0.17942	-0.00338	-0.00034
61	0.18201	-0.00306	-0.00063	0.18236	-0.00271	-0.00027
62	0.18325	-0.00378	-0.00077	0.18369	-0.00334	-0.00034
63	0.05546	0.00168	-0.00256	0.05700	0.00322	-0.00102
64	0.05604	0.00169	-0.00257	0.05758	0.00324	-0.00103
65	0.05609	0.00168	-0.00256	0.05763	0.00322	-0.00102
66	0.05559	0.00152	-0.00232	0.05699	0.00292	-0.00092
67	0.05638	0.00192	-0.00292	0.05813	0.00368	-0.00116
68	0.05659	0.00199	-0.00303	0.05842	0.00382	-0.00121
69	0.05691	0.00219	-0.00332	0.05891	0.00418	-0.00133
70	0.05545	0.00146	-0.00222	0.05678	0.00279	-0.00088
71	0.05576	0.00146	-0.00223	0.05710	0.00280	-0.00089
72	0.05635	0.00164	-0.00250	0.05786	0.00315	-0.00100
73	0.05565	0.00160	-0.00244	0.05712	0.00307	-0.00097
74	0.05550	0.00138	-0.00210	0.05677	0.00265	-0.00084
75	0.05515	0.00131	-0.00200	0.05635	0.00252	-0.00080
76	0.05484	0.00126	-0.00192	0.05600	0.00242	-0.00077

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.30 The Elasticities with respect to Distances from Model 2 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.33628	-0.01518	0.05067	-0.29082	0.03027	0.09613
2	-0.37682	-0.01631	0.05445	-0.32797	0.03253	0.10329
3	-0.32461	-0.00201	0.00671	-0.31858	0.00401	0.01274
4	-0.32101	-0.00199	0.00666	-0.31504	0.00398	0.01263
5	-0.31616	-0.00197	0.00659	-0.31025	0.00394	0.01251
6	-0.32240	-0.00200	0.00668	-0.31641	0.00399	0.01267
7	-0.36802	-0.00217	0.00725	-0.36151	0.00433	0.01376
8	-0.34082	-0.00207	0.00691	-0.33462	0.00413	0.01312
9	-0.37709	-0.00221	0.00737	-0.37048	0.00440	0.01397
10	-0.30534	-0.00193	0.00644	-0.29956	0.00385	0.01222
11	-0.38851	-0.00225	0.00750	-0.38179	0.00448	0.01422
12	-0.45897	-0.00246	0.00821	-0.45161	0.00490	0.01557
13	-0.50912	-0.00259	0.00864	-0.50137	0.00516	0.01640
14	-0.56808	-0.00272	0.00907	-0.55994	0.00542	0.01721
15	-0.35619	-0.00213	0.00711	-0.34982	0.00425	0.01348
16	-0.36170	-0.00215	0.00718	-0.35526	0.00429	0.01363
17	-0.33070	-0.00203	0.00679	-0.32461	0.00406	0.01288
18	-0.43608	-0.00239	0.00797	-0.42893	0.00476	0.01512
19	-0.39353	-0.00226	0.00754	-0.38677	0.00451	0.01431
20	-0.41581	-0.00233	0.00779	-0.40882	0.00466	0.01478
21	-0.36421	-0.00216	0.00722	-0.35773	0.00431	0.01369
22	-0.36336	-0.00216	0.00720	-0.35690	0.00430	0.01366
23	-0.34817	-0.00210	0.00702	-0.34187	0.00419	0.01331
24	-0.37165	-0.00219	0.00730	-0.36510	0.00436	0.01385
25	-0.40922	-0.00231	0.00772	-0.40229	0.00461	0.01464
26	-0.52088	-0.00261	0.00872	-0.51306	0.00521	0.01655
27	-2.19378	0.03525	0.00627	-2.19681	0.03223	0.00324
28	-2.11771	0.03676	0.00653	-2.12086	0.03360	0.00338
29	-1.93413	0.04027	0.00716	-1.93759	0.03681	0.00370
30	-1.60730	0.04650	0.00827	-1.61130	0.04251	0.00427
31	-1.77644	0.04336	0.00771	-1.78017	0.03963	0.00398
32	-2.11111	0.03672	0.00653	-2.11426	0.03357	0.00337
33	-2.18727	0.03538	0.00629	-2.19031	0.03234	0.00325
34	-2.49478	0.02970	0.00528	-2.49733	0.02715	0.00273
35	-2.93542	0.02259	0.00402	-2.93736	0.02065	0.00208
36	-1.17721	0.05289	0.00940	-1.18175	0.04835	0.00486
37	-1.19000	0.05280	0.00938	-1.19454	0.04826	0.00485
38	-1.41093	0.04981	0.00885	-1.41521	0.04553	0.00458
39	-1.53683	0.04777	0.00849	-1.54094	0.04367	0.00439
40	-1.45548	0.04902	0.00871	-1.45969	0.04481	0.00450
41	-1.32068	0.05117	0.00910	-1.32507	0.04678	0.00470
42	-1.29559	0.05144	0.00914	-1.30001	0.04703	0.00473
43	-1.23531	0.05227	0.00929	-1.23980	0.04778	0.00480

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.10089	0.04359	0.00892	-1.10591	0.03858	0.00390
45	-1.25375	0.04241	0.00868	-1.25863	0.03753	0.00380
46	-1.34167	0.04169	0.00853	-1.34647	0.03690	0.00373
47	-1.54573	0.03890	0.00796	-1.55021	0.03442	0.00348
48	-1.66672	0.03702	0.00757	-1.67098	0.03276	0.00331
49	-1.45811	0.04015	0.00821	-1.46273	0.03553	0.00359
50	-1.15669	0.04334	0.00887	-1.16168	0.03835	0.00388
51	-1.61917	0.03793	0.00776	-1.62354	0.03356	0.00339
52	-1.48996	0.03949	0.00808	-1.49451	0.03494	0.00353
53	-1.27010	0.04240	0.00867	-1.27498	0.03752	0.00379
54	-1.58912	0.03818	0.00781	-1.59351	0.03378	0.00342
55	-1.56931	0.03858	0.00789	-1.57375	0.03414	0.00345
56	-1.74883	0.03598	0.00736	-1.75297	0.03184	0.00322
57	-1.30113	0.04205	0.00860	-1.30596	0.03721	0.00376
58	-1.36509	0.04139	0.00847	-1.36985	0.03663	0.00370
59	-1.38363	0.04124	0.00844	-1.38838	0.03650	0.00369
60	-1.70903	0.03642	0.00745	-1.71322	0.03223	0.00326
61	-1.94570	0.03276	0.00670	-1.94947	0.02899	0.00293
62	-1.74691	0.03602	0.00737	-1.75105	0.03188	0.00322
63	-0.89887	-0.02727	0.04149	-0.92381	-0.05221	0.01655
64	-0.90424	-0.02727	0.04149	-0.92918	-0.05221	0.01655
65	-0.90949	-0.02725	0.04145	-0.93441	-0.05217	0.01653
66	-0.99886	-0.02738	0.04166	-1.02391	-0.05243	0.01662
67	-0.77786	-0.02648	0.04029	-0.80209	-0.05071	0.01607
68	-0.73890	-0.02603	0.03960	-0.76271	-0.04984	0.01580
69	-0.64923	-0.02493	0.03792	-0.67203	-0.04772	0.01512
70	-1.04719	-0.02751	0.04185	-1.07235	-0.05267	0.01669
71	-1.04703	-0.02748	0.04182	-1.07217	-0.05262	0.01668
72	-0.94098	-0.02745	0.04176	-0.96608	-0.05255	0.01665
73	-0.95279	-0.02746	0.04178	-0.97790	-0.05258	0.01666
74	-1.10026	-0.02740	0.04169	-1.12533	-0.05246	0.01663
75	-1.14413	-0.02726	0.04148	-1.16907	-0.05220	0.01654
76	-1.17715	-0.02711	0.04124	-1.20195	-0.05190	0.01645

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.31 The Elasticities with respect to Wages from Model 3 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.21250	-0.01597	-0.01558	0.18961	-0.03886	-0.03846
2	0.21292	-0.01236	-0.01205	0.19521	-0.03007	-0.02976
3	0.22546	-0.00304	-0.00296	0.22111	-0.00740	-0.00732
4	0.22596	-0.00224	-0.00218	0.22276	-0.00544	-0.00539
5	0.22540	-0.00317	-0.00309	0.22087	-0.00770	-0.00763
6	0.22735	-0.00091	-0.00088	0.22605	-0.00221	-0.00218
7	0.22312	-0.00154	-0.00150	0.22092	-0.00374	-0.00370
8	0.22489	-0.00164	-0.00160	0.22253	-0.00400	-0.00396
9	0.22435	-0.00039	-0.00038	0.22380	-0.00094	-0.00094
10	0.22765	-0.00200	-0.00195	0.22479	-0.00486	-0.00481
11	0.21680	-0.00689	-0.00672	0.20692	-0.01677	-0.01660
12	0.21637	-0.00275	-0.00268	0.21244	-0.00668	-0.00661
13	0.21560	-0.00134	-0.00131	0.21368	-0.00326	-0.00323
14	0.21383	-0.00070	-0.00068	0.21283	-0.00171	-0.00169
15	0.22408	-0.00108	-0.00106	0.22253	-0.00263	-0.00261
16	0.22297	-0.00251	-0.00244	0.21938	-0.00610	-0.00603
17	0.22607	-0.00146	-0.00143	0.22398	-0.00356	-0.00352
18	0.21885	-0.00037	-0.00036	0.21832	-0.00089	-0.00088
19	0.22142	-0.00113	-0.00110	0.21980	-0.00275	-0.00272
20	0.22068	-0.00115	-0.00112	0.21903	-0.00280	-0.00277
21	0.22455	-0.00115	-0.00112	0.22291	-0.00279	-0.00276
22	0.22260	-0.00241	-0.00235	0.21914	-0.00587	-0.00581
23	0.22519	-0.00121	-0.00118	0.22345	-0.00295	-0.00292
24	0.22423	-0.00045	-0.00044	0.22359	-0.00110	-0.00108
25	0.21980	-0.00183	-0.00178	0.21719	-0.00444	-0.00439
26	0.21446	-0.00089	-0.00087	0.21319	-0.00216	-0.00214
27	0.24518	-0.00992	-0.00360	0.24724	-0.00786	-0.00154
28	0.25089	-0.00427	-0.00155	0.25178	-0.00338	-0.00066
29	0.25114	-0.00398	-0.00144	0.25197	-0.00315	-0.00062
30	0.24859	-0.00636	-0.00231	0.24990	-0.00504	-0.00099
31	0.24895	-0.00604	-0.00219	0.25020	-0.00479	-0.00094
32	0.25259	-0.00222	-0.00081	0.25305	-0.00176	-0.00035
33	0.25049	-0.00455	-0.00165	0.25143	-0.00361	-0.00071
34	0.24732	-0.00777	-0.00282	0.24893	-0.00615	-0.00121
35	0.25615	-0.00033	-0.00012	0.25621	-0.00026	-0.00005
36	0.24832	-0.00662	-0.00240	0.24969	-0.00525	-0.00103
37	0.25113	-0.00383	-0.00139	0.25193	-0.00304	-0.00060
38	0.24876	-0.00609	-0.00221	0.25002	-0.00483	-0.00095
39	0.25248	-0.00236	-0.00086	0.25297	-0.00187	-0.00037
40	0.25252	-0.00236	-0.00086	0.25301	-0.00187	-0.00037
41	0.25117	-0.00387	-0.00140	0.25197	-0.00306	-0.00060
42	0.24505	-0.00986	-0.00358	0.24709	-0.00781	-0.00153
43	0.24991	-0.00528	-0.00192	0.25101	-0.00418	-0.00082
44	0.19531	-0.00208	-0.00227	0.19695	-0.00045	-0.00063
45	0.19657	-0.00086	-0.00094	0.19725	-0.00018	-0.00026
46	0.19653	-0.00103	-0.00112	0.19734	-0.00022	-0.00031
47	0.19668	-0.00088	-0.00096	0.19738	-0.00019	-0.00027
48	0.19601	-0.00151	-0.00165	0.19720	-0.00032	-0.00046
49	0.19661	-0.00100	-0.00109	0.19740	-0.00021	-0.00030
50	0.19623	-0.00124	-0.00135	0.19720	-0.00027	-0.00038
51	0.19593	-0.00166	-0.00180	0.19723	-0.00035	-0.00050
52	0.19579	-0.00173	-0.00189	0.19715	-0.00037	-0.00053
53	0.19497	-0.00279	-0.00304	0.19716	-0.00060	-0.00085
54	0.19516	-0.00251	-0.00274	0.19714	-0.00054	-0.00076
55	0.19478	-0.00270	-0.00294	0.19690	-0.00058	-0.00082
56	0.19601	-0.00176	-0.00192	0.19739	-0.00038	-0.00053
57	0.19498	-0.00278	-0.00302	0.19716	-0.00059	-0.00084
58	0.19692	-0.00084	-0.00091	0.19757	-0.00018	-0.00025
59	0.19483	-0.00302	-0.00329	0.19720	-0.00065	-0.00092
60	0.19596	-0.00164	-0.00178	0.19724	-0.00035	-0.00050
61	0.19643	-0.00109	-0.00118	0.19729	-0.00023	-0.00033
62	0.19514	-0.00270	-0.00294	0.19726	-0.00058	-0.00082
63	0.12437	0.00081	-0.00497	0.12761	0.00405	-0.00173
64	0.12376	0.00078	-0.00474	0.12685	0.00387	-0.00165
65	0.12383	0.00167	-0.01017	0.13046	0.00830	-0.00354
66	0.12224	0.00092	-0.00560	0.12589	0.00457	-0.00195
67	0.12405	0.00128	-0.00779	0.12913	0.00635	-0.00271
68	0.12228	0.00108	-0.00657	0.12657	0.00536	-0.00229
69	0.12257	0.00109	-0.00664	0.12690	0.00542	-0.00231
70	0.12441	0.00098	-0.00596	0.12830	0.00487	-0.00208
71	0.12358	0.00071	-0.00433	0.12640	0.00353	-0.00151
72	0.12476	0.00096	-0.00588	0.12859	0.00479	-0.00205
73	0.12459	0.00071	-0.00433	0.12741	0.00353	-0.00151
74	0.12290	0.00028	-0.00169	0.12401	0.00138	-0.00059
75	0.12254	0.00039	-0.00238	0.12409	0.00194	-0.00083
76	0.12181	0.00042	-0.00258	0.12350	0.00211	-0.00090

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.32 The Elasticities with respect to Employment Rates from Model 3 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.01840	0.00138	0.00135	-0.01642	0.00337	0.00333
2	-0.01855	0.00108	0.00105	-0.01700	0.00262	0.00259
3	-0.01962	0.00026	0.00026	-0.01924	0.00064	0.00064
4	-0.01955	0.00019	0.00019	-0.01927	0.00047	0.00047
5	-0.01945	0.00027	0.00027	-0.01906	0.00066	0.00066
6	-0.01966	0.00008	0.00008	-0.01954	0.00019	0.00019
7	-0.01947	0.00013	0.00013	-0.01927	0.00033	0.00032
8	-0.01946	0.00014	0.00014	-0.01925	0.00035	0.00034
9	-0.01964	0.00003	0.00003	-0.01959	0.00008	0.00008
10	-0.01955	0.00017	0.00017	-0.01930	0.00042	0.00041
11	-0.01918	0.00061	0.00059	-0.01831	0.00148	0.00147
12	-0.01944	0.00025	0.00024	-0.01908	0.00060	0.00059
13	-0.01971	0.00012	0.00012	-0.01953	0.00030	0.00029
14	-0.01985	0.00007	0.00006	-0.01976	0.00016	0.00016
15	-0.01952	0.00009	0.00009	-0.01938	0.00023	0.00023
16	-0.01958	0.00022	0.00021	-0.01926	0.00054	0.00053
17	-0.01965	0.00013	0.00012	-0.01947	0.00031	0.00031
18	-0.01923	0.00003	0.00003	-0.01919	0.00008	0.00008
19	-0.01963	0.00010	0.00010	-0.01949	0.00024	0.00024
20	-0.01979	0.00010	0.00010	-0.01964	0.00025	0.00025
21	-0.01977	0.00010	0.00010	-0.01962	0.00025	0.00024
22	-0.01956	0.00021	0.00021	-0.01926	0.00052	0.00051
23	-0.01975	0.00011	0.00010	-0.01960	0.00026	0.00026
24	-0.01989	0.00004	0.00004	-0.01983	0.00010	0.00010
25	-0.01969	0.00016	0.00016	-0.01946	0.00040	0.00039
26	-0.01976	0.00008	0.00008	-0.01964	0.00020	0.00020
27	-0.02386	0.00097	0.00035	-0.02406	0.00077	0.00015
28	-0.02457	0.00042	0.00015	-0.02465	0.00033	0.00006
29	-0.02437	0.00039	0.00014	-0.02445	0.00031	0.00006
30	-0.02429	0.00062	0.00023	-0.02442	0.00049	0.00010
31	-0.02435	0.00059	0.00021	-0.02447	0.00047	0.00009
32	-0.02427	0.00021	0.00008	-0.02432	0.00017	0.00003
33	-0.02441	0.00044	0.00016	-0.02451	0.00035	0.00007
34	-0.02401	0.00075	0.00027	-0.02416	0.00060	0.00012
35	-0.02432	0.00003	0.00001	-0.02433	0.00003	0.00000
36	-0.02441	0.00065	0.00024	-0.02455	0.00052	0.00010
37	-0.02477	0.00038	0.00014	-0.02485	0.00030	0.00006
38	-0.02433	0.00060	0.00022	-0.02446	0.00047	0.00009
39	-0.02481	0.00023	0.00008	-0.02486	0.00018	0.00004
40	-0.02443	0.00023	0.00008	-0.02448	0.00018	0.00004
41	-0.02460	0.00038	0.00014	-0.02468	0.00030	0.00006
42	-0.02389	0.00096	0.00035	-0.02409	0.00076	0.00015
43	-0.02444	0.00052	0.00019	-0.02455	0.00041	0.00008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.01886	0.00020	0.00022	-0.01902	0.00004	0.00006
45	-0.01893	0.00008	0.00009	-0.01899	0.00002	0.00003
46	-0.01938	0.00010	0.00011	-0.01946	0.00002	0.00003
47	-0.01899	0.00009	0.00009	-0.01905	0.00002	0.00003
48	-0.01864	0.00014	0.00016	-0.01876	0.00003	0.00004
49	-0.01910	0.00010	0.00011	-0.01917	0.00002	0.00003
50	-0.01915	0.00012	0.00013	-0.01925	0.00003	0.00004
51	-0.01915	0.00016	0.00018	-0.01928	0.00003	0.00005
52	-0.01844	0.00016	0.00018	-0.01857	0.00003	0.00005
53	-0.01896	0.00027	0.00030	-0.01917	0.00006	0.00008
54	-0.01850	0.00024	0.00026	-0.01869	0.00005	0.00007
55	-0.01889	0.00026	0.00029	-0.01910	0.00006	0.00008
56	-0.01914	0.00017	0.00019	-0.01928	0.00004	0.00005
57	-0.01890	0.00027	0.00029	-0.01911	0.00006	0.00008
58	-0.01923	0.00008	0.00009	-0.01929	0.00002	0.00002
59	-0.01916	0.00030	0.00032	-0.01940	0.00006	0.00009
60	-0.01872	0.00016	0.00017	-0.01884	0.00003	0.00005
61	-0.01901	0.00011	0.00011	-0.01909	0.00002	0.00003
62	-0.01905	0.00026	0.00029	-0.01926	0.00006	0.00008
63	-0.01151	-0.00008	0.00046	-0.01181	-0.00038	0.00016
64	-0.01163	-0.00007	0.00045	-0.01192	-0.00036	0.00016
65	-0.01173	-0.00016	0.00096	-0.01236	-0.00079	0.00034
66	-0.01159	-0.00009	0.00053	-0.01193	-0.00043	0.00018
67	-0.01170	-0.00012	0.00073	-0.01218	-0.00060	0.00026
68	-0.01171	-0.00010	0.00063	-0.01212	-0.00051	0.00022
69	-0.01174	-0.00010	0.00064	-0.01216	-0.00052	0.00022
70	-0.01157	-0.00009	0.00055	-0.01194	-0.00045	0.00019
71	-0.01161	-0.00007	0.00041	-0.01188	-0.00033	0.00014
72	-0.01173	-0.00009	0.00055	-0.01209	-0.00045	0.00019
73	-0.01156	-0.00007	0.00040	-0.01182	-0.00033	0.00014
74	-0.01154	-0.00003	0.00016	-0.01164	-0.00013	0.00006
75	-0.01148	-0.00004	0.00022	-0.01163	-0.00018	0.00008
76	-0.01143	-0.00004	0.00024	-0.01159	-0.00020	0.00008

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.33 The Elasticities with respect to Distances from Model 3 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.62284	0.04682	0.04566	-0.55575	0.11390	0.11274
2	-0.71058	0.04125	0.04023	-0.65147	0.10036	0.09934
3	-0.66382	0.00895	0.00873	-0.65100	0.02178	0.02155
4	-0.65879	0.00652	0.00636	-0.64944	0.01587	0.01570
5	-0.64616	0.00908	0.00885	-0.63315	0.02209	0.02186
6	-0.66554	0.00265	0.00259	-0.66174	0.00646	0.00639
7	-0.75775	0.00522	0.00509	-0.75027	0.01270	0.01257
8	-0.70135	0.00512	0.00500	-0.69401	0.01246	0.01233
9	-0.78048	0.00135	0.00132	-0.77854	0.00329	0.00325
10	-0.62726	0.00551	0.00537	-0.61937	0.01340	0.01326
11	-0.78075	0.02482	0.02420	-0.74519	0.06038	0.05976
12	-0.94013	0.01193	0.01164	-0.92303	0.02903	0.02873
13	-1.04986	0.00653	0.00636	-1.04051	0.01587	0.01571
14	-1.17522	0.00386	0.00376	-1.16969	0.00938	0.00928
15	-0.73485	0.00355	0.00346	-0.72977	0.00864	0.00855
16	-0.74151	0.00833	0.00813	-0.72957	0.02027	0.02007
17	-0.68103	0.00441	0.00430	-0.67472	0.01072	0.01061
18	-0.90296	0.00152	0.00148	-0.90079	0.00369	0.00365
19	-0.81186	0.00415	0.00405	-0.80592	0.01009	0.00999
20	-0.85783	0.00447	0.00436	-0.85143	0.01088	0.01077
21	-0.75122	0.00384	0.00374	-0.74572	0.00933	0.00924
22	-0.74522	0.00808	0.00788	-0.73364	0.01966	0.01946
23	-0.71786	0.00387	0.00377	-0.71232	0.00941	0.00931
24	-0.76898	0.00154	0.00151	-0.76677	0.00376	0.00372
25	-0.84162	0.00699	0.00681	-0.83161	0.01700	0.01683
26	-1.07641	0.00445	0.00434	-1.07003	0.01084	0.01072
27	-1.75436	0.07100	0.02577	-1.76909	0.05627	0.01104
28	-1.73478	0.02952	0.01071	-1.74091	0.02339	0.00459
29	-1.59163	0.02521	0.00915	-1.59686	0.01998	0.00392
30	-1.32053	0.03377	0.01226	-1.32754	0.02676	0.00525
31	-1.45493	0.03530	0.01281	-1.46226	0.02798	0.00549
32	-1.74353	0.01533	0.00557	-1.74671	0.01215	0.00238
33	-1.78764	0.03250	0.01180	-1.79438	0.02575	0.00505
34	-2.00437	0.06293	0.02285	-2.01743	0.04988	0.00979
35	-2.41918	0.00314	0.00114	-2.41983	0.00249	0.00049
36	-0.98116	0.02617	0.00950	-0.98659	0.02074	0.00407
37	-1.00244	0.01530	0.00555	-1.00561	0.01212	0.00238
38	-1.16762	0.02858	0.01038	-1.17355	0.02265	0.00444
39	-1.28564	0.01200	0.00435	-1.28813	0.00951	0.00187
40	-1.22062	0.01142	0.00415	-1.22299	0.00905	0.00178
41	-1.10639	0.01703	0.00618	-1.10992	0.01349	0.00265
42	-1.06044	0.04265	0.01548	-1.06929	0.03380	0.00663
43	-1.03259	0.02181	0.00792	-1.03711	0.01729	0.00339

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.68619	0.00732	0.00797	-0.69194	0.00157	0.00222
45	-0.78199	0.00343	0.00373	-0.78468	0.00073	0.00104
46	-0.83388	0.00438	0.00477	-0.83732	0.00094	0.00133
47	-0.95593	0.00429	0.00467	-0.95929	0.00092	0.00130
48	-1.02447	0.00791	0.00862	-1.03069	0.00169	0.00240
49	-0.90330	0.00458	0.00499	-0.90690	0.00098	0.00139
50	-0.72259	0.00458	0.00499	-0.72619	0.00098	0.00139
51	-0.99571	0.00841	0.00916	-1.00232	0.00180	0.00255
52	-0.91865	0.00813	0.00885	-0.92504	0.00174	0.00246
53	-0.78410	0.01121	0.01221	-0.79291	0.00240	0.00340
54	-0.97352	0.01254	0.01366	-0.98338	0.00269	0.00380
55	-0.96098	0.01332	0.01451	-0.97145	0.00285	0.00404
56	-1.07187	0.00964	0.01050	-1.07945	0.00206	0.00292
57	-0.80247	0.01143	0.01245	-0.81146	0.00245	0.00347
58	-0.84866	0.00360	0.00392	-0.85149	0.00077	0.00109
59	-0.85022	0.01319	0.01437	-0.86059	0.00282	0.00400
60	-1.04889	0.00876	0.00955	-1.05578	0.00188	0.00266
61	-1.19226	0.00660	0.00719	-1.19745	0.00141	0.00200
62	-1.06561	0.01476	0.01608	-1.07721	0.00316	0.00448
63	-1.09488	-0.00717	0.04375	-1.12340	-0.03569	0.01523
64	-1.10132	-0.00692	0.04222	-1.12885	-0.03444	0.01470
65	-1.11601	-0.01502	0.09169	-1.17578	-0.07479	0.03192
66	-1.22151	-0.00916	0.05594	-1.25798	-0.04563	0.01947
67	-0.94743	-0.00975	0.05949	-0.98621	-0.04853	0.02071
68	-0.89752	-0.00790	0.04823	-0.92896	-0.03934	0.01679
69	-0.78607	-0.00698	0.04259	-0.81384	-0.03474	0.01483
70	-1.28258	-0.01007	0.06149	-1.32266	-0.05016	0.02141
71	-1.27968	-0.00735	0.04485	-1.30892	-0.03658	0.01561
72	-1.14891	-0.00886	0.05411	-1.18418	-0.04413	0.01884
73	-1.16136	-0.00661	0.04034	-1.18766	-0.03290	0.01404
74	-1.34190	-0.00303	0.01849	-1.35395	-0.01508	0.00644
75	-1.39824	-0.00445	0.02716	-1.41594	-0.02215	0.00945
76	-1.44020	-0.00500	0.03053	-1.46010	-0.02490	0.01063

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.34 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.99588	-0.07486	-0.07300	0.88862	-0.18213	-0.18027
2	1.20262	-0.06982	-0.06808	1.10259	-0.16986	-0.16812
3	1.67557	-0.02259	-0.02203	1.64320	-0.05496	-0.05440
4	1.24774	-0.01235	-0.01205	1.23004	-0.03005	-0.02974
5	1.79066	-0.02516	-0.02453	1.75462	-0.06121	-0.06058
6	1.18693	-0.00473	-0.00462	1.18015	-0.01151	-0.01140
7	1.74594	-0.01203	-0.01173	1.72870	-0.02927	-0.02897
8	1.31064	-0.00957	-0.00933	1.29693	-0.02329	-0.02305
9	1.03767	-0.00180	-0.00175	1.03510	-0.00437	-0.00433
10	1.08611	-0.00954	-0.00930	1.07244	-0.02320	-0.02297
11	2.57867	-0.08198	-0.07994	2.46122	-0.19943	-0.19739
12	1.33938	-0.01700	-0.01658	1.31502	-0.04136	-0.04094
13	1.54678	-0.00961	-0.00937	1.53300	-0.02339	-0.02315
14	1.36466	-0.00448	-0.00437	1.35824	-0.01089	-0.01078
15	1.25683	-0.00607	-0.00592	1.24813	-0.01477	-0.01462
16	1.95476	-0.02197	-0.02142	1.92329	-0.05344	-0.05290
17	1.71893	-0.01112	-0.01085	1.70299	-0.02706	-0.02679
18	1.04971	-0.00176	-0.00172	1.04718	-0.00429	-0.00424
19	1.40049	-0.00716	-0.00698	1.39024	-0.01741	-0.01723
20	1.72240	-0.00898	-0.00876	1.70953	-0.02185	-0.02163
21	1.79250	-0.00915	-0.00892	1.77939	-0.02226	-0.02204
22	1.33215	-0.01445	-0.01409	1.31145	-0.03515	-0.03479
23	1.43816	-0.00775	-0.00755	1.42706	-0.01884	-0.01865
24	1.93500	-0.00388	-0.00379	1.92944	-0.00945	-0.00935
25	1.77169	-0.01471	-0.01434	1.75062	-0.03579	-0.03542
26	1.34109	-0.00555	-0.00541	1.33314	-0.01350	-0.01336
27	2.77126	-0.11216	-0.04071	2.79453	-0.08889	-0.01744
28	1.95050	-0.03319	-0.01205	1.95738	-0.02630	-0.00516
29	1.88205	-0.02981	-0.01082	1.88824	-0.02362	-0.00464
30	1.73371	-0.04434	-0.01609	1.74291	-0.03514	-0.00689
31	2.01980	-0.04901	-0.01779	2.02997	-0.03884	-0.00762
32	2.32354	-0.02043	-0.00742	2.32778	-0.01619	-0.00318
33	3.18134	-0.05783	-0.02099	3.19334	-0.04583	-0.00899
34	2.99984	-0.09419	-0.03419	3.01939	-0.07465	-0.01465
35	3.74136	-0.00486	-0.00176	3.74237	-0.00385	-0.00075
36	1.35655	-0.03618	-0.01313	1.36406	-0.02868	-0.00563
37	1.75230	-0.02674	-0.00971	1.75785	-0.02119	-0.00416
38	1.77140	-0.04336	-0.01574	1.78040	-0.03437	-0.00674
39	2.07599	-0.01937	-0.00703	2.08001	-0.01535	-0.00301
40	1.31663	-0.01232	-0.00447	1.31919	-0.00976	-0.00192
41	1.48471	-0.02285	-0.00829	1.48945	-0.01811	-0.00355
42	1.74306	-0.07010	-0.02545	1.75760	-0.05555	-0.01090
43	1.80443	-0.03812	-0.01384	1.81234	-0.03021	-0.00593
44	1.52470	-0.01627	-0.01772	1.53749	-0.00348	-0.00493
45	1.88690	-0.00826	-0.00900	1.89340	-0.00177	-0.00251
46	1.56287	-0.00820	-0.00893	1.56932	-0.00176	-0.00249
47	1.93321	-0.00867	-0.00944	1.94002	-0.00186	-0.00263
48	1.51577	-0.01171	-0.01275	1.52497	-0.00251	-0.00355
49	2.33751	-0.01186	-0.01292	2.34683	-0.00254	-0.00360
50	1.71332	-0.01086	-0.01183	1.72185	-0.00233	-0.00329
51	2.13128	-0.01801	-0.01962	2.14543	-0.00386	-0.00546
52	2.17493	-0.01924	-0.02095	2.19005	-0.00412	-0.00583
53	1.80474	-0.02580	-0.02810	1.82502	-0.00552	-0.00782
54	1.59591	-0.02056	-0.02239	1.61207	-0.00440	-0.00623
55	2.10621	-0.02920	-0.03180	2.12916	-0.00625	-0.00886
56	2.13721	-0.01922	-0.02093	2.15232	-0.00412	-0.00583
57	1.66961	-0.02378	-0.02590	1.68830	-0.00509	-0.00721
58	1.43979	-0.00611	-0.00665	1.44459	-0.00131	-0.00185
59	2.43329	-0.03775	-0.04111	2.46296	-0.00808	-0.01145
60	2.15792	-0.01803	-0.01964	2.17209	-0.00386	-0.00547
61	2.60079	-0.01440	-0.01569	2.61211	-0.00308	-0.00437
62	2.28370	-0.03164	-0.03446	2.30856	-0.00677	-0.00960
63	0.87856	0.00575	-0.03511	0.90145	0.02864	-0.01222
64	0.72573	0.00456	-0.02782	0.74387	0.02269	-0.00969
65	1.28702	0.01732	-0.10574	1.35595	0.08625	-0.03681
66	0.89043	0.00668	-0.04078	0.91701	0.03326	-0.01420
67	0.65539	0.00674	-0.04116	0.68222	0.03357	-0.01433
68	0.68306	0.00601	-0.03671	0.70699	0.02994	-0.01278
69	0.74463	0.00661	-0.04035	0.77093	0.03291	-0.01405
70	0.97617	0.00767	-0.04680	1.00668	0.03817	-0.01629
71	0.94333	0.00542	-0.03306	0.96488	0.02697	-0.01151
72	0.70476	0.00544	-0.03319	0.72640	0.02707	-0.01155
73	0.77371	0.00440	-0.02687	0.79123	0.02192	-0.00936
74	1.00028	0.00226	-0.01378	1.00927	0.01124	-0.00480
75	0.89910	0.00286	-0.01746	0.91049	0.01424	-0.00608
76	1.11435	0.00387	-0.02362	1.12975	0.01927	-0.00822

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.35 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 1 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-2.65624	0.19968	0.19472	-2.37014	0.48578	0.48081
2	-3.08931	0.17936	0.17490	-2.83233	0.43633	0.43187
3	-2.35979	0.03182	0.03103	-2.31420	0.07741	0.07662
4	-2.30474	0.02282	0.02225	-2.27204	0.05551	0.05494
5	-2.54561	0.03577	0.03488	-2.49436	0.08701	0.08612
6	-3.14437	0.01254	0.01223	-3.12640	0.03050	0.03019
7	-3.12502	0.02153	0.02100	-3.09417	0.05238	0.05185
8	-2.67371	0.01953	0.01904	-2.64573	0.04751	0.04702
9	-3.80077	0.00658	0.00642	-3.79134	0.01601	0.01584
10	-2.38814	0.02097	0.02045	-2.35809	0.05102	0.05050
11	-2.42549	0.07711	0.07519	-2.31502	0.18758	0.18566
12	-2.11520	0.02685	0.02618	-2.07673	0.06532	0.06465
13	-2.75711	0.01714	0.01671	-2.73255	0.04169	0.04126
14	-3.12928	0.01027	0.01001	-3.11457	0.02498	0.02472
15	-2.55539	0.01235	0.01204	-2.53770	0.03004	0.02973
16	-2.84837	0.03201	0.03122	-2.80251	0.07788	0.07708
17	-3.29234	0.02131	0.02078	-3.26181	0.05183	0.05130
18	-3.83838	0.00644	0.00628	-3.82915	0.01568	0.01552
19	-3.03826	0.01553	0.01514	-3.01601	0.03777	0.03738
20	-3.35788	0.01751	0.01707	-3.33279	0.04260	0.04216
21	-3.53067	0.01803	0.01758	-3.50484	0.04385	0.04341
22	-2.23048	0.02419	0.02359	-2.19582	0.05885	0.05825
23	-3.18289	0.01714	0.01672	-3.15833	0.04171	0.04128
24	-4.64067	0.00932	0.00909	-4.62732	0.02267	0.02243
25	-2.90142	0.02409	0.02349	-2.86691	0.05861	0.05801
26	-2.90501	0.01202	0.01172	-2.88779	0.02924	0.02894
27	-3.89537	0.15766	0.05723	-3.92809	0.12494	0.02451
28	-4.07533	0.06934	0.02517	-4.08972	0.05495	0.01078
29	-4.20951	0.06668	0.02420	-4.22334	0.05284	0.01037
30	-3.75808	0.09611	0.03489	-3.77802	0.07617	0.01494
31	-4.03632	0.09794	0.03555	-4.05664	0.07761	0.01523
32	-4.99205	0.04390	0.01593	-5.00116	0.03479	0.00683
33	-5.03553	0.09154	0.03323	-5.05452	0.07254	0.01423
34	-4.14828	0.13025	0.04728	-4.17531	0.10322	0.02025
35	-7.84764	0.01018	0.00370	-7.84976	0.00807	0.00158
36	-3.79005	0.10110	0.03670	-3.81103	0.08012	0.01572
37	-4.71298	0.07192	0.02611	-4.72790	0.05700	0.01118
38	-3.65997	0.08960	0.03252	-3.67857	0.07100	0.01393
39	-5.25644	0.04905	0.01780	-5.26662	0.03887	0.00763
40	-4.55604	0.04263	0.01547	-4.56489	0.03378	0.00663
41	-4.28920	0.06601	0.02396	-4.30290	0.05232	0.01026
42	-3.64356	0.14653	0.05319	-3.67397	0.11613	0.02278
43	-4.41519	0.09327	0.03386	-4.43455	0.07392	0.01450
44	-2.87058	0.03063	0.03336	-2.89465	0.00656	0.00929
45	-4.02825	0.01764	0.01922	-4.04212	0.00378	0.00535
46	-3.39653	0.01782	0.01941	-3.41054	0.00382	0.00541
47	-3.85556	0.01728	0.01883	-3.86914	0.00370	0.00524
48	-2.79592	0.02160	0.02352	-2.81289	0.00462	0.00655
49	-4.23411	0.02148	0.02340	-4.25100	0.00460	0.00652
50	-3.57917	0.02268	0.02470	-3.59700	0.00486	0.00688
51	-3.41991	0.02890	0.03148	-3.44262	0.00619	0.00876
52	-3.43512	0.03038	0.03309	-3.45900	0.00651	0.00921
53	-2.73033	0.03903	0.04251	-2.76100	0.00836	0.01184
54	-2.35640	0.03035	0.03306	-2.38025	0.00650	0.00921
55	-2.86511	0.03972	0.04326	-2.89632	0.00851	0.01205
56	-3.21688	0.02893	0.03151	-3.23962	0.00620	0.00877
57	-2.61754	0.03728	0.04060	-2.64684	0.00798	0.01131
58	-3.52243	0.01495	0.01628	-3.53418	0.00320	0.00453
59	-3.25896	0.05056	0.05506	-3.29869	0.01083	0.01533
60	-3.39968	0.02841	0.03094	-3.42200	0.00608	0.00862
61	-4.08974	0.02265	0.02467	-4.10754	0.00485	0.00687
62	-2.96996	0.04115	0.04481	-3.00229	0.00881	0.01248
63	-1.58627	-0.01038	0.06339	-1.62759	-0.05171	0.02207
64	-1.48824	-0.00935	0.05705	-1.52543	-0.04654	0.01986
65	-1.25999	-0.01696	0.10351	-1.32747	-0.08444	0.03604
66	-1.31187	-0.00984	0.06008	-1.35104	-0.04901	0.02091
67	-1.07045	-0.01101	0.06722	-1.11426	-0.05483	0.02340
68	-1.28637	-0.01132	0.06913	-1.33143	-0.05638	0.02406
69	-1.47663	-0.01311	0.08001	-1.52878	-0.06526	0.02785
70	-1.29792	-0.01019	0.06222	-1.33848	-0.05076	0.02166
71	-1.63373	-0.00938	0.05726	-1.67106	-0.04671	0.01993
72	-1.20325	-0.00928	0.05667	-1.24019	-0.04622	0.01973
73	-1.53291	-0.00872	0.05324	-1.56761	-0.04343	0.01854
74	-2.55794	-0.00577	0.03524	-2.58091	-0.02874	0.01227
75	-2.05382	-0.00653	0.03989	-2.07982	-0.03254	0.01389
76	-2.18091	-0.00757	0.04624	-2.21105	-0.03771	0.01610

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.36 The Elasticities with respect to Wages from Model 2 of Group 1 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	1.82827	-0.15023	-0.03808	1.65634	-0.32216	-0.21002
2	1.83628	-0.13583	-0.03443	1.68082	-0.29128	-0.18989
3	1.96027	-0.01993	-0.00505	1.93746	-0.04274	-0.02786
4	1.95903	-0.02006	-0.00509	1.93606	-0.04303	-0.02805
5	1.95973	-0.02042	-0.00518	1.93635	-0.04380	-0.02855
6	1.95359	-0.01999	-0.00507	1.93071	-0.04287	-0.02795
7	1.94839	-0.01793	-0.00455	1.92786	-0.03846	-0.02507
8	1.95300	-0.01924	-0.00488	1.93098	-0.04126	-0.02690
9	1.94899	-0.01769	-0.00448	1.92874	-0.03794	-0.02473
10	1.95822	-0.02104	-0.00533	1.93415	-0.04511	-0.02941
11	1.95047	-0.01711	-0.00434	1.93089	-0.03669	-0.02392
12	1.93928	-0.01452	-0.00368	1.92266	-0.03114	-0.02030
13	1.93317	-0.01287	-0.00326	1.91845	-0.02760	-0.01799
14	1.92791	-0.01122	-0.00284	1.91507	-0.02406	-0.01568
15	1.95160	-0.01840	-0.00467	1.93053	-0.03947	-0.02573
16	1.94512	-0.01811	-0.00459	1.92439	-0.03883	-0.02531
17	1.95718	-0.01972	-0.00500	1.93460	-0.04230	-0.02757
18	1.92751	-0.01493	-0.00378	1.91043	-0.03201	-0.02087
19	1.94975	-0.01717	-0.00435	1.93010	-0.03682	-0.02401
20	1.94517	-0.01620	-0.00411	1.92663	-0.03474	-0.02265
21	1.95676	-0.01825	-0.00463	1.93588	-0.03913	-0.02551
22	1.95631	-0.01839	-0.00466	1.93526	-0.03944	-0.02571
23	1.96022	-0.01906	-0.00483	1.93840	-0.04088	-0.02665
24	1.95892	-0.01820	-0.00461	1.93809	-0.03903	-0.02544
25	1.95105	-0.01666	-0.00422	1.93198	-0.03573	-0.02329
26	1.93621	-0.01292	-0.00328	1.92142	-0.02772	-0.01807
27	1.66961	-0.03223	-0.01809	1.68248	-0.01936	-0.00522
28	1.66897	-0.03377	-0.01895	1.68245	-0.02028	-0.00547
29	1.66526	-0.03758	-0.02110	1.68027	-0.02257	-0.00609
30	1.65994	-0.04582	-0.02572	1.67824	-0.02752	-0.00742
31	1.66418	-0.04150	-0.02329	1.68075	-0.02493	-0.00672
32	1.66673	-0.03364	-0.01888	1.68017	-0.02021	-0.00545
33	1.66957	-0.03230	-0.01813	1.68247	-0.01940	-0.00523
34	1.67255	-0.02699	-0.01515	1.68333	-0.01621	-0.00437
35	1.67621	-0.02052	-0.01152	1.68441	-0.01232	-0.00332
36	1.65197	-0.05876	-0.03298	1.67543	-0.03529	-0.00952
37	1.65375	-0.05736	-0.03219	1.67666	-0.03445	-0.00929
38	1.65712	-0.05133	-0.02881	1.67762	-0.03083	-0.00831
39	1.65985	-0.04770	-0.02677	1.67890	-0.02865	-0.00773
40	1.65652	-0.05021	-0.02818	1.67657	-0.03016	-0.00813
41	1.65389	-0.05464	-0.03067	1.67571	-0.03282	-0.00885
42	1.65324	-0.05511	-0.03093	1.67524	-0.03310	-0.00893
43	1.65221	-0.05772	-0.03240	1.67526	-0.03467	-0.00935
44	5.04635	-0.44258	-0.04312	5.07305	-0.41588	-0.01642
45	5.12620	-0.31675	-0.03086	5.14531	-0.29764	-0.01175
46	5.19593	-0.27001	-0.02631	5.21222	-0.25372	-0.01002
47	5.26105	-0.17859	-0.01740	5.27183	-0.16781	-0.00663
48	5.29097	-0.14152	-0.01379	5.29951	-0.13299	-0.00525
49	5.23106	-0.22459	-0.02188	5.24461	-0.21104	-0.00833
50	5.06256	-0.42417	-0.04133	5.08815	-0.39858	-0.01574
51	5.27389	-0.15946	-0.01554	5.28351	-0.14984	-0.00592
52	5.21419	-0.23242	-0.02264	5.22821	-0.21840	-0.00862
53	5.11278	-0.34624	-0.03373	5.13367	-0.32536	-0.01285
54	5.23238	-0.18937	-0.01845	5.24380	-0.17794	-0.00703
55	5.24975	-0.19908	-0.01940	5.26176	-0.18707	-0.00739
56	5.29226	-0.14485	-0.01411	5.30100	-0.13611	-0.00537
57	5.13396	-0.31698	-0.03088	5.15308	-0.29786	-0.01176
58	5.16987	-0.27676	-0.02696	5.18657	-0.26007	-0.01027
59	5.19272	-0.28603	-0.02787	5.20998	-0.26877	-0.01061
60	5.27505	-0.14314	-0.01395	5.28368	-0.13451	-0.00531
61	5.31806	-0.08895	-0.00867	5.32343	-0.08358	-0.00330
62	5.30228	-0.12673	-0.01235	5.30992	-0.11908	-0.00470
63	2.87898	-0.14576	-0.02660	2.89438	-0.13036	-0.01121
64	2.88412	-0.14394	-0.02627	2.89932	-0.12874	-0.01107
65	2.88610	-0.14168	-0.02586	2.90107	-0.12671	-0.01089
66	2.90764	-0.10071	-0.01838	2.91828	-0.09007	-0.00774
67	2.82649	-0.23271	-0.04247	2.85107	-0.20813	-0.01789
68	2.79506	-0.26508	-0.04838	2.82306	-0.23708	-0.02038
69	2.71310	-0.37233	-0.06796	2.75243	-0.33300	-0.02863
70	2.92089	-0.08451	-0.01542	2.92982	-0.07558	-0.00650
71	2.92379	-0.08561	-0.01562	2.93283	-0.07657	-0.00658
72	2.89907	-0.12629	-0.02305	2.91241	-0.11295	-0.00971
73	2.90036	-0.12012	-0.02192	2.91305	-0.10743	-0.00924
74	2.93031	-0.06965	-0.01271	2.93766	-0.06229	-0.00535
75	2.93921	-0.05967	-0.01089	2.94552	-0.05337	-0.00459
76	2.93520	-0.05190	-0.00947	2.94068	-0.04642	-0.00399

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.37 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.04186	-0.00344	-0.00087	0.03793	-0.00738	-0.00481
2	0.04221	-0.00312	-0.00079	0.03863	-0.00669	-0.00436
3	0.04501	-0.00046	-0.00012	0.04448	-0.00098	-0.00064
4	0.04486	-0.00046	-0.00012	0.04433	-0.00099	-0.00064
5	0.04493	-0.00047	-0.00012	0.04439	-0.00100	-0.00065
6	0.04448	-0.00046	-0.00012	0.04396	-0.00098	-0.00064
7	0.04457	-0.00041	-0.00010	0.04410	-0.00088	-0.00057
8	0.04466	-0.00044	-0.00011	0.04415	-0.00094	-0.00062
9	0.04487	-0.00041	-0.00010	0.04440	-0.00087	-0.00057
10	0.04489	-0.00048	-0.00012	0.04433	-0.00103	-0.00067
11	0.04502	-0.00039	-0.00010	0.04457	-0.00085	-0.00055
12	0.04506	-0.00034	-0.00009	0.04468	-0.00072	-0.00047
13	0.04525	-0.00030	-0.00008	0.04490	-0.00065	-0.00042
14	0.04556	-0.00027	-0.00007	0.04525	-0.00057	-0.00037
15	0.04475	-0.00042	-0.00011	0.04427	-0.00091	-0.00059
16	0.04439	-0.00041	-0.00010	0.04392	-0.00089	-0.00058
17	0.04490	-0.00045	-0.00011	0.04438	-0.00097	-0.00063
18	0.04394	-0.00034	-0.00009	0.04356	-0.00073	-0.00048
19	0.04483	-0.00039	-0.00010	0.04438	-0.00085	-0.00055
20	0.04482	-0.00037	-0.00009	0.04439	-0.00080	-0.00052
21	0.04518	-0.00042	-0.00011	0.04470	-0.00090	-0.00059
22	0.04504	-0.00042	-0.00011	0.04456	-0.00091	-0.00059
23	0.04520	-0.00044	-0.00011	0.04470	-0.00094	-0.00061
24	0.04530	-0.00042	-0.00011	0.04482	-0.00090	-0.00059
25	0.04506	-0.00038	-0.00010	0.04462	-0.00083	-0.00054
26	0.04547	-0.00030	-0.00008	0.04512	-0.00065	-0.00042
27	0.04022	-0.00078	-0.00044	0.04053	-0.00047	-0.00013
28	0.04032	-0.00082	-0.00046	0.04064	-0.00049	-0.00013
29	0.03971	-0.00090	-0.00050	0.04006	-0.00054	-0.00015
30	0.03966	-0.00109	-0.00061	0.04010	-0.00066	-0.00018
31	0.04019	-0.00100	-0.00056	0.04059	-0.00060	-0.00016
32	0.03963	-0.00080	-0.00045	0.03994	-0.00048	-0.00013
33	0.04021	-0.00078	-0.00044	0.04052	-0.00047	-0.00013
34	0.04012	-0.00065	-0.00036	0.04038	-0.00039	-0.00010
35	0.04047	-0.00050	-0.00028	0.04067	-0.00030	-0.00008
36	0.03969	-0.00141	-0.00079	0.04025	-0.00085	-0.00023
37	0.03994	-0.00139	-0.00078	0.04049	-0.00083	-0.00022
38	0.03987	-0.00124	-0.00069	0.04037	-0.00074	-0.00020
39	0.04005	-0.00115	-0.00065	0.04051	-0.00069	-0.00019
40	0.03946	-0.00120	-0.00067	0.03994	-0.00072	-0.00019
41	0.03948	-0.00130	-0.00073	0.04000	-0.00078	-0.00021
42	0.03944	-0.00131	-0.00074	0.03997	-0.00079	-0.00021
43	0.03961	-0.00138	-0.00078	0.04017	-0.00083	-0.00022

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	0.11940	-0.01047	-0.00102	0.12003	-0.00984	-0.00039
45	0.12011	-0.00742	-0.00072	0.12056	-0.00697	-0.00028
46	0.12453	-0.00647	-0.00063	0.12492	-0.00608	-0.00024
47	0.12584	-0.00427	-0.00042	0.12609	-0.00401	-0.00016
48	0.12690	-0.00339	-0.00033	0.12710	-0.00319	-0.00013
49	0.12539	-0.00538	-0.00052	0.12572	-0.00506	-0.00020
50	0.12013	-0.01007	-0.00098	0.12074	-0.00946	-0.00037
51	0.12591	-0.00381	-0.00037	0.12614	-0.00358	-0.00014
52	0.12377	-0.00552	-0.00054	0.12411	-0.00518	-0.00020
53	0.12060	-0.00817	-0.00080	0.12110	-0.00767	-0.00030
54	0.12210	-0.00442	-0.00043	0.12237	-0.00415	-0.00016
55	0.12559	-0.00476	-0.00046	0.12588	-0.00448	-0.00018
56	0.12757	-0.00349	-0.00034	0.12778	-0.00328	-0.00013
57	0.12092	-0.00747	-0.00073	0.12137	-0.00702	-0.00028
58	0.12200	-0.00653	-0.00064	0.12240	-0.00614	-0.00024
59	0.12497	-0.00688	-0.00067	0.12538	-0.00647	-0.00026
60	0.12413	-0.00337	-0.00033	0.12433	-0.00317	-0.00012
61	0.12536	-0.00210	-0.00020	0.12549	-0.00197	-0.00008
62	0.12713	-0.00304	-0.00030	0.12731	-0.00286	-0.00011
63	0.06770	-0.00343	-0.00063	0.06807	-0.00307	-0.00026
64	0.06823	-0.00341	-0.00062	0.06859	-0.00305	-0.00026
65	0.06872	-0.00337	-0.00062	0.06907	-0.00302	-0.00026
66	0.06918	-0.00240	-0.00044	0.06944	-0.00214	-0.00018
67	0.06696	-0.00551	-0.00101	0.06755	-0.00493	-0.00042
68	0.06556	-0.00622	-0.00113	0.06622	-0.00556	-0.00048
69	0.06334	-0.00869	-0.00159	0.06426	-0.00777	-0.00067
70	0.06902	-0.00200	-0.00036	0.06923	-0.00179	-0.00015
71	0.07001	-0.00205	-0.00037	0.07023	-0.00183	-0.00016
72	0.06935	-0.00302	-0.00055	0.06967	-0.00270	-0.00023
73	0.06892	-0.00285	-0.00052	0.06923	-0.00255	-0.00022
74	0.06966	-0.00166	-0.00030	0.06984	-0.00148	-0.00013
75	0.07064	-0.00143	-0.00026	0.07079	-0.00128	-0.00011
76	0.06881	-0.00122	-0.00022	0.06894	-0.00109	-0.00009

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.38 The Elasticities with respect to Distances from Model 2 of Group 1 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.71846	0.05903	0.01497	-0.65089	0.12660	0.08253
2	-0.80882	0.05983	0.01517	-0.74035	0.12830	0.08364
3	-0.77249	0.00785	0.00199	-0.76350	0.01684	0.01098
4	-0.76388	0.00782	0.00198	-0.75493	0.01678	0.01094
5	-0.74783	0.00779	0.00198	-0.73891	0.01671	0.01090
6	-0.75898	0.00777	0.00197	-0.75009	0.01665	0.01086
7	-0.85648	0.00788	0.00200	-0.84746	0.01691	0.01102
8	-0.79530	0.00783	0.00199	-0.78633	0.01680	0.01095
9	-0.87094	0.00791	0.00200	-0.86189	0.01695	0.01105
10	-0.71701	0.00770	0.00195	-0.70820	0.01652	0.01077
11	-0.90586	0.00795	0.00201	-0.89676	0.01704	0.01111
12	-1.04908	0.00786	0.00199	-1.04009	0.01685	0.01098
13	-1.15854	0.00771	0.00196	-1.14971	0.01654	0.01078
14	-1.28586	0.00748	0.00190	-1.27730	0.01604	0.01046
15	-0.83632	0.00789	0.00200	-0.82730	0.01691	0.01103
16	-0.84218	0.00784	0.00199	-0.83321	0.01681	0.01096
17	-0.77773	0.00784	0.00199	-0.76876	0.01681	0.01096
18	-1.00346	0.00777	0.00197	-0.99456	0.01666	0.01086
19	-0.90104	0.00794	0.00201	-0.89195	0.01702	0.01109
20	-0.95092	0.00792	0.00201	-0.94185	0.01698	0.01107
21	-0.85285	0.00795	0.00202	-0.84375	0.01705	0.01112
22	-0.84441	0.00794	0.00201	-0.83533	0.01702	0.01110
23	-0.81549	0.00793	0.00201	-0.80641	0.01701	0.01109
24	-0.85881	0.00798	0.00202	-0.84968	0.01711	0.01115
25	-0.93264	0.00796	0.00202	-0.92352	0.01708	0.01113
26	-1.15904	0.00774	0.00196	-1.15018	0.01659	0.01082
27	-1.35061	0.02607	0.01463	-1.36103	0.01566	0.00422
28	-1.30533	0.02641	0.01482	-1.31588	0.01586	0.00428
29	-1.19726	0.02702	0.01517	-1.20805	0.01623	0.00438
30	-1.00314	0.02769	0.01554	-1.01420	0.01663	0.00449
31	-1.10270	0.02750	0.01544	-1.11368	0.01652	0.00445
32	-1.30464	0.02633	0.01478	-1.31515	0.01582	0.00427
33	-1.34856	0.02609	0.01464	-1.35898	0.01567	0.00423
34	-1.52549	0.02462	0.01382	-1.53533	0.01479	0.00399
35	-1.79813	0.02201	0.01235	-1.80692	0.01322	0.00357
36	-0.76322	0.02715	0.01524	-0.77406	0.01631	0.00440
37	-0.78806	0.02733	0.01534	-0.79897	0.01642	0.00443
38	-0.89420	0.02770	0.01555	-0.90526	0.01664	0.00449
39	-0.96620	0.02777	0.01559	-0.97729	0.01668	0.00450
40	-0.91315	0.02768	0.01554	-0.92420	0.01663	0.00448
41	-0.83171	0.02748	0.01542	-0.84268	0.01651	0.00445
42	-0.82298	0.02743	0.01540	-0.83394	0.01648	0.00444
43	-0.77954	0.02724	0.01529	-0.79042	0.01636	0.00441

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-2.07726	0.18218	0.01775	-2.08825	0.17119	0.00676
45	-2.38957	0.14765	0.01439	-2.39848	0.13874	0.00548
46	-2.59281	0.13474	0.01313	-2.60094	0.12661	0.00500
47	-3.00684	0.10207	0.00994	-3.01299	0.09591	0.00379
48	-3.24640	0.08684	0.00846	-3.25164	0.08160	0.00322
49	-2.77997	0.11936	0.01163	-2.78717	0.11216	0.00443
50	-2.12187	0.17778	0.01732	-2.13260	0.16706	0.00660
51	-3.12001	0.09434	0.00919	-3.12570	0.08865	0.00350
52	-2.73113	0.12174	0.01186	-2.73847	0.11440	0.00452
53	-2.31188	0.15656	0.01525	-2.32133	0.14712	0.00581
54	-2.91986	0.10567	0.01030	-2.92623	0.09930	0.00392
55	-2.90137	0.11003	0.01072	-2.90801	0.10339	0.00408
56	-3.22792	0.08835	0.00861	-3.23325	0.08302	0.00328
57	-2.39870	0.14810	0.01443	-2.40763	0.13917	0.00549
58	-2.54148	0.13605	0.01326	-2.54968	0.12785	0.00505
59	-2.54570	0.14022	0.01366	-2.55416	0.13176	0.00520
60	-3.21490	0.08724	0.00850	-3.22016	0.08198	0.00324
61	-3.70270	0.06193	0.00603	-3.70643	0.05819	0.00230
62	-3.35914	0.08028	0.00782	-3.36398	0.07544	0.00298
63	-2.95591	0.14965	0.02731	-2.97172	0.13384	0.01151
64	-2.97454	0.14846	0.02710	-2.99022	0.13278	0.01141
65	-2.99206	0.14688	0.02681	-3.00757	0.13137	0.01129
66	-3.33826	0.11562	0.02110	-3.35047	0.10341	0.00889
67	-2.48061	0.20423	0.03728	-2.50218	0.18266	0.01570
68	-2.33382	0.22134	0.04040	-2.35720	0.19796	0.01702
69	-1.97776	0.27142	0.04954	-2.00643	0.24275	0.02087
70	-3.52283	0.10193	0.01860	-3.53359	0.09116	0.00784
71	-3.51527	0.10293	0.01879	-3.52615	0.09206	0.00791
72	-3.11530	0.13571	0.02477	-3.12963	0.12137	0.01043
73	-3.16302	0.13099	0.02391	-3.17686	0.11716	0.01007
74	-3.72276	0.08848	0.01615	-3.73210	0.07913	0.00680
75	-3.88625	0.07890	0.01440	-3.89459	0.07056	0.00607
76	-4.01587	0.07101	0.01296	-4.02338	0.06351	0.00546

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.39 The Elasticities with respect to Wages from Model 2 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.24462	-0.01517	0.03080	-0.22418	0.00528	0.05125
2	-0.24419	-0.01468	0.02979	-0.22441	0.00510	0.04957
3	-0.23206	-0.00265	0.00538	-0.22849	0.00092	0.00895
4	-0.23199	-0.00265	0.00538	-0.22842	0.00092	0.00894
5	-0.23230	-0.00265	0.00538	-0.22873	0.00092	0.00895
6	-0.23501	-0.00264	0.00537	-0.23145	0.00092	0.00893
7	-0.23214	-0.00250	0.00507	-0.22878	0.00087	0.00843
8	-0.23396	-0.00258	0.00524	-0.23049	0.00090	0.00871
9	-0.23186	-0.00246	0.00499	-0.22855	0.00085	0.00830
10	-0.23223	-0.00263	0.00535	-0.22868	0.00092	0.00890
11	-0.23175	-0.00248	0.00504	-0.22841	0.00086	0.00838
12	-0.23168	-0.00232	0.00471	-0.22855	0.00081	0.00785
13	-0.23194	-0.00221	0.00449	-0.22896	0.00077	0.00746
14	-0.23214	-0.00209	0.00424	-0.22933	0.00073	0.00705
15	-0.23196	-0.00255	0.00517	-0.22853	0.00089	0.00861
16	-0.23171	-0.00251	0.00509	-0.22833	0.00087	0.00847
17	-0.23174	-0.00258	0.00523	-0.22827	0.00090	0.00870
18	-0.23169	-0.00234	0.00475	-0.22853	0.00081	0.00791
19	-0.23185	-0.00252	0.00512	-0.22845	0.00088	0.00852
20	-0.23177	-0.00246	0.00500	-0.22845	0.00086	0.00832
21	-0.23180	-0.00252	0.00512	-0.22840	0.00088	0.00852
22	-0.23186	-0.00259	0.00525	-0.22837	0.00090	0.00874
23	-0.23184	-0.00261	0.00530	-0.22832	0.00091	0.00882
24	-0.23182	-0.00256	0.00520	-0.22836	0.00089	0.00866
25	-0.23174	-0.00248	0.00504	-0.22840	0.00086	0.00839
26	-0.23197	-0.00225	0.00456	-0.22895	0.00078	0.00759
27	-0.09376	-0.02227	0.00244	-0.08753	-0.01605	0.00867
28	-0.09392	-0.02243	0.00246	-0.08766	-0.01616	0.00873
29	-0.09426	-0.02279	0.00250	-0.08789	-0.01643	0.00887
30	-0.09494	-0.02348	0.00257	-0.08838	-0.01692	0.00914
31	-0.09457	-0.02311	0.00253	-0.08811	-0.01665	0.00899
32	-0.09388	-0.02241	0.00246	-0.08762	-0.01615	0.00872
33	-0.09374	-0.02227	0.00244	-0.08752	-0.01605	0.00867
34	-0.09306	-0.02159	0.00237	-0.08703	-0.01556	0.00840
35	-0.09239	-0.02088	0.00229	-0.08655	-0.01505	0.00812
36	-0.09607	-0.02463	0.00270	-0.08919	-0.01775	0.00958
37	-0.09609	-0.02466	0.00270	-0.08920	-0.01777	0.00959
38	-0.09550	-0.02405	0.00264	-0.08878	-0.01733	0.00936
39	-0.09521	-0.02379	0.00261	-0.08856	-0.01714	0.00925
40	-0.09530	-0.02386	0.00262	-0.08864	-0.01719	0.00928
41	-0.09560	-0.02415	0.00265	-0.08885	-0.01740	0.00939
42	-0.09569	-0.02423	0.00266	-0.08892	-0.01746	0.00943
43	-0.09575	-0.02430	0.00266	-0.08896	-0.01751	0.00945

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.19129	-0.01880	0.00118	-0.19184	-0.01936	0.00062
45	-0.18987	-0.01775	0.00111	-0.19040	-0.01828	0.00058
46	-0.19024	-0.01721	0.00108	-0.19075	-0.01772	0.00057
47	-0.18920	-0.01630	0.00102	-0.18968	-0.01679	0.00054
48	-0.18876	-0.01576	0.00099	-0.18923	-0.01623	0.00052
49	-0.18921	-0.01660	0.00104	-0.18970	-0.01709	0.00055
50	-0.19109	-0.01831	0.00115	-0.19164	-0.01886	0.00060
51	-0.18867	-0.01596	0.00100	-0.18914	-0.01643	0.00052
52	-0.18998	-0.01691	0.00106	-0.19048	-0.01741	0.00056
53	-0.19045	-0.01761	0.00110	-0.19098	-0.01813	0.00058
54	-0.18921	-0.01659	0.00104	-0.18970	-0.01708	0.00054
55	-0.18986	-0.01672	0.00105	-0.19036	-0.01721	0.00055
56	-0.18908	-0.01601	0.00100	-0.18955	-0.01649	0.00053
57	-0.19017	-0.01732	0.00108	-0.19068	-0.01783	0.00057
58	-0.18950	-0.01702	0.00106	-0.19001	-0.01753	0.00056
59	-0.18977	-0.01696	0.00106	-0.19028	-0.01746	0.00056
60	-0.18847	-0.01581	0.00099	-0.18894	-0.01628	0.00052
61	-0.18789	-0.01495	0.00093	-0.18833	-0.01539	0.00049
62	-0.18864	-0.01560	0.00098	-0.18910	-0.01607	0.00051
63	-1.25407	0.07396	0.01800	-1.26947	0.05855	0.00259
64	-1.25656	0.07156	0.01741	-1.27147	0.05665	0.00251
65	-1.26068	0.06834	0.01663	-1.27491	0.05411	0.00239
66	-1.29029	0.04105	0.00999	-1.29884	0.03250	0.00144
67	-1.18021	0.13831	0.03366	-1.20902	0.10950	0.00485
68	-1.15594	0.16234	0.03950	-1.18976	0.12852	0.00569
69	-1.04581	0.26875	0.06540	-1.10179	0.21277	0.00941
70	-1.30117	0.03472	0.00845	-1.30840	0.02749	0.00122
71	-1.30785	0.03661	0.00891	-1.31548	0.02899	0.00128
72	-1.26712	0.06035	0.01468	-1.27970	0.04778	0.00211
73	-1.27202	0.05709	0.01389	-1.28392	0.04520	0.00200
74	-1.34245	0.02573	0.00626	-1.34781	0.02037	0.00090
75	-1.31370	0.02011	0.00489	-1.31789	0.01592	0.00070
76	-1.32364	0.01671	0.00407	-1.32712	0.01323	0.00059

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.40 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.30838	-0.01913	0.03883	-0.28260	0.00665	0.06461
2	-0.30730	-0.01847	0.03749	-0.28241	0.00642	0.06238
3	-0.29255	-0.00334	0.00678	-0.28805	0.00116	0.01128
4	-0.29271	-0.00334	0.00678	-0.28821	0.00116	0.01128
5	-0.29184	-0.00333	0.00675	-0.28735	0.00116	0.01124
6	-0.28901	-0.00325	0.00660	-0.28463	0.00113	0.01098
7	-0.29099	-0.00313	0.00635	-0.28678	0.00109	0.01057
8	-0.28935	-0.00319	0.00648	-0.28505	0.00111	0.01078
9	-0.29186	-0.00309	0.00628	-0.28769	0.00108	0.01044
10	-0.29176	-0.00331	0.00672	-0.28730	0.00115	0.01118
11	-0.29335	-0.00314	0.00637	-0.28912	0.00109	0.01061
12	-0.29206	-0.00293	0.00594	-0.28812	0.00102	0.00989
13	-0.29312	-0.00279	0.00567	-0.28936	0.00097	0.00943
14	-0.29330	-0.00264	0.00535	-0.28974	0.00092	0.00891
15	-0.29174	-0.00320	0.00650	-0.28742	0.00111	0.01082
16	-0.29238	-0.00316	0.00643	-0.28812	0.00110	0.01069
17	-0.29320	-0.00326	0.00662	-0.28881	0.00113	0.01101
18	-0.29059	-0.00294	0.00596	-0.28663	0.00102	0.00992
19	-0.29241	-0.00318	0.00646	-0.28812	0.00111	0.01075
20	-0.29349	-0.00312	0.00633	-0.28929	0.00108	0.01053
21	-0.29400	-0.00320	0.00650	-0.28969	0.00111	0.01081
22	-0.29314	-0.00327	0.00664	-0.28873	0.00114	0.01105
23	-0.29378	-0.00331	0.00672	-0.28932	0.00115	0.01118
24	-0.29386	-0.00325	0.00660	-0.28948	0.00113	0.01098
25	-0.29311	-0.00314	0.00638	-0.28887	0.00109	0.01061
26	-0.29346	-0.00284	0.00577	-0.28963	0.00099	0.00960
27	-0.11598	-0.02755	0.00302	-0.10828	-0.01985	0.01072
28	-0.11679	-0.02789	0.00306	-0.10900	-0.02010	0.01085
29	-0.11641	-0.02815	0.00309	-0.10854	-0.02028	0.01095
30	-0.11725	-0.02900	0.00318	-0.10915	-0.02090	0.01128
31	-0.11676	-0.02853	0.00313	-0.10879	-0.02056	0.01110
32	-0.11577	-0.02763	0.00303	-0.10805	-0.01991	0.01075
33	-0.11537	-0.02741	0.00301	-0.10771	-0.01975	0.01066
34	-0.11506	-0.02669	0.00293	-0.10760	-0.01923	0.01038
35	-0.11377	-0.02572	0.00282	-0.10659	-0.01853	0.01001
36	-0.11904	-0.03052	0.00335	-0.11051	-0.02199	0.01187
37	-0.11863	-0.03045	0.00334	-0.11012	-0.02194	0.01184
38	-0.11822	-0.02977	0.00326	-0.10990	-0.02145	0.01158
39	-0.11628	-0.02905	0.00319	-0.10816	-0.02093	0.01130
40	-0.11756	-0.02943	0.00323	-0.10934	-0.02121	0.01145
41	-0.11850	-0.02993	0.00328	-0.11013	-0.02157	0.01164
42	-0.11880	-0.03009	0.00330	-0.11039	-0.02168	0.01170
43	-0.11883	-0.03015	0.00331	-0.11041	-0.02173	0.01173
44	-0.23328	-0.02293	0.00143	-0.23396	-0.02361	0.00075
45	-0.22729	-0.02125	0.00133	-0.22792	-0.02188	0.00070
46	-0.23508	-0.02127	0.00133	-0.23572	-0.02190	0.00070
47	-0.23168	-0.01997	0.00125	-0.23228	-0.02056	0.00066
48	-0.23153	-0.01933	0.00121	-0.23211	-0.01991	0.00063
49	-0.22964	-0.02015	0.00126	-0.23023	-0.02074	0.00066
50	-0.23500	-0.02252	0.00141	-0.23567	-0.02319	0.00074
51	-0.22911	-0.01938	0.00121	-0.22968	-0.01995	0.00064
52	-0.23474	-0.02090	0.00131	-0.23536	-0.02152	0.00069
53	-0.23416	-0.02165	0.00135	-0.23480	-0.02229	0.00071
54	-0.22949	-0.02012	0.00126	-0.23009	-0.02072	0.00066
55	-0.23511	-0.02070	0.00129	-0.23573	-0.02131	0.00068
56	-0.23257	-0.01970	0.00123	-0.23315	-0.02028	0.00065
57	-0.23363	-0.02127	0.00133	-0.23426	-0.02190	0.00070
58	-0.22942	-0.02061	0.00129	-0.23003	-0.02122	0.00068
59	-0.23247	-0.02077	0.00130	-0.23309	-0.02139	0.00068
60	-0.22825	-0.01915	0.00120	-0.22882	-0.01972	0.00063
61	-0.22897	-0.01822	0.00114	-0.22951	-0.01876	0.00060
62	-0.23175	-0.01917	0.00120	-0.23232	-0.01974	0.00063
63	-1.54686	0.09123	0.02220	-1.56586	0.07223	0.00320
64	-1.55211	0.08839	0.02151	-1.57053	0.06998	0.00310
65	-1.55318	0.08420	0.02049	-1.57071	0.06666	0.00295
66	-1.58812	0.05053	0.01230	-1.59864	0.04000	0.00177
67	-1.47024	0.17230	0.04193	-1.50613	0.13641	0.00604
68	-1.44474	0.20290	0.04937	-1.48700	0.16063	0.00711
69	-1.30770	0.33605	0.08177	-1.37770	0.26605	0.01177
70	-1.59550	0.04257	0.01036	-1.60436	0.03370	0.00149
71	-1.59559	0.04467	0.01087	-1.60489	0.03536	0.00156
72	-1.57347	0.07494	0.01823	-1.58908	0.05933	0.00263
73	-1.57004	0.07046	0.01715	-1.58472	0.05578	0.00247
74	-1.59348	0.03055	0.00743	-1.59984	0.02418	0.00107
75	-1.61282	0.02469	0.00601	-1.61796	0.01955	0.00087
76	-1.61655	0.02041	0.00497	-1.62080	0.01616	0.00072

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.41 The Elasticities with respect to Distances from Model 2 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.28553	-0.01771	0.03595	-0.26167	0.00616	0.05982
2	-0.32104	-0.01929	0.03917	-0.29504	0.00671	0.06517
3	-0.27749	-0.00317	0.00643	-0.27322	0.00110	0.01070
4	-0.27799	-0.00317	0.00644	-0.27371	0.00110	0.01072
5	-0.27967	-0.00319	0.00647	-0.27537	0.00111	0.01077
6	-0.29350	-0.00330	0.00670	-0.28905	0.00115	0.01115
7	-0.34013	-0.00366	0.00742	-0.33520	0.00127	0.01235
8	-0.31422	-0.00346	0.00703	-0.30955	0.00121	0.01170
9	-0.35438	-0.00375	0.00762	-0.34932	0.00131	0.01268
10	-0.28487	-0.00323	0.00656	-0.28051	0.00112	0.01092
11	-0.34265	-0.00367	0.00745	-0.33771	0.00128	0.01239
12	-0.41025	-0.00411	0.00835	-0.40471	0.00143	0.01389
13	-0.46045	-0.00439	0.00890	-0.45454	0.00153	0.01482
14	-0.51857	-0.00466	0.00946	-0.51229	0.00162	0.01575
15	-0.31791	-0.00349	0.00709	-0.31320	0.00121	0.01179
16	-0.33225	-0.00360	0.00730	-0.32740	0.00125	0.01215
17	-0.30460	-0.00339	0.00687	-0.30003	0.00118	0.01144
18	-0.40330	-0.00408	0.00828	-0.39781	0.00142	0.01377
19	-0.32646	-0.00355	0.00721	-0.32167	0.00124	0.01200
20	-0.34976	-0.00372	0.00755	-0.34476	0.00129	0.01255
21	-0.32489	-0.00354	0.00718	-0.32012	0.00123	0.01195
22	-0.30040	-0.00335	0.00681	-0.29588	0.00117	0.01132
23	-0.29021	-0.00327	0.00664	-0.28581	0.00114	0.01104
24	-0.30907	-0.00342	0.00694	-0.30446	0.00119	0.01154
25	-0.34167	-0.00366	0.00743	-0.33673	0.00127	0.01237
26	-0.44363	-0.00430	0.00872	-0.43784	0.00149	0.01451
27	-0.28009	-0.06654	0.00730	-0.26150	-0.04795	0.02589
28	-0.27098	-0.06471	0.00709	-0.25290	-0.04663	0.02518
29	-0.25111	-0.06072	0.00666	-0.23414	-0.04376	0.02362
30	-0.21334	-0.05277	0.00579	-0.19860	-0.03802	0.02053
31	-0.23373	-0.05711	0.00626	-0.21777	-0.04116	0.02222
32	-0.27291	-0.06514	0.00714	-0.25471	-0.04694	0.02534
33	-0.28048	-0.06664	0.00731	-0.26186	-0.04802	0.02593
34	-0.31858	-0.07391	0.00810	-0.29793	-0.05326	0.02875
35	-0.36002	-0.08138	0.00892	-0.33728	-0.05864	0.03166
36	-0.15083	-0.03867	0.00424	-0.14002	-0.02787	0.01505
37	-0.14967	-0.03841	0.00421	-0.13894	-0.02768	0.01494
38	-0.18214	-0.04587	0.00503	-0.16932	-0.03306	0.01785
39	-0.19757	-0.04936	0.00541	-0.18377	-0.03557	0.01920
40	-0.19297	-0.04831	0.00530	-0.17948	-0.03481	0.01879
41	-0.17703	-0.04471	0.00490	-0.16453	-0.03222	0.01740
42	-0.17225	-0.04362	0.00478	-0.16006	-0.03143	0.01697
43	-0.16884	-0.04284	0.00470	-0.15687	-0.03087	0.01667

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.28739	-0.02825	0.00177	-0.28823	-0.02909	0.00093
45	-0.35206	-0.03292	0.00206	-0.35304	-0.03389	0.00108
46	-0.38131	-0.03449	0.00216	-0.38234	-0.03552	0.00113
47	-0.44022	-0.03794	0.00237	-0.44135	-0.03906	0.00125
48	-0.47583	-0.03973	0.00248	-0.47701	-0.04091	0.00130
49	-0.42222	-0.03704	0.00232	-0.42332	-0.03814	0.00122
50	-0.31503	-0.03019	0.00189	-0.31592	-0.03108	0.00099
51	-0.46420	-0.03926	0.00245	-0.46536	-0.04043	0.00129
52	-0.39997	-0.03561	0.00223	-0.40103	-0.03666	0.00117
53	-0.35733	-0.03304	0.00207	-0.35831	-0.03402	0.00108
54	-0.42288	-0.03708	0.00232	-0.42398	-0.03818	0.00122
55	-0.41213	-0.03629	0.00227	-0.41321	-0.03736	0.00119
56	-0.45874	-0.03885	0.00243	-0.45989	-0.04001	0.00128
57	-0.37545	-0.03419	0.00214	-0.37647	-0.03520	0.00112
58	-0.39577	-0.03555	0.00222	-0.39682	-0.03660	0.00117
59	-0.39812	-0.03558	0.00222	-0.39918	-0.03663	0.00117
60	-0.47437	-0.03979	0.00249	-0.47555	-0.04097	0.00131
61	-0.53250	-0.04237	0.00265	-0.53375	-0.04363	0.00139
62	-0.48620	-0.04022	0.00251	-0.48739	-0.04141	0.00132
63	-4.16218	0.24547	0.05973	-4.21331	0.19434	0.00860
64	-4.19905	0.23914	0.05819	-4.24886	0.18932	0.00838
65	-4.25639	0.23074	0.05615	-4.30445	0.18268	0.00808
66	-4.84097	0.15402	0.03748	-4.87305	0.12194	0.00540
67	-3.38306	0.39648	0.09648	-3.46565	0.31389	0.01389
68	-3.16924	0.44509	0.10831	-3.26195	0.35237	0.01559
69	-2.47820	0.63684	0.15497	-2.61085	0.50418	0.02231
70	-5.02786	0.13415	0.03264	-5.05581	0.10621	0.00470
71	-4.96546	0.13901	0.03383	-4.99441	0.11005	0.00487
72	-4.39176	0.20915	0.05090	-4.43533	0.16559	0.00733
73	-4.46362	0.20032	0.04875	-4.50535	0.15859	0.00702
74	-5.36421	0.10283	0.02502	-5.38563	0.08141	0.00360
75	-5.62279	0.08609	0.02095	-5.64072	0.06816	0.00302
76	-5.81964	0.07348	0.01788	-5.83494	0.05817	0.00257

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.42 The Elasticities with respect to Wages from Model 3 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	1.32341	-0.09200	-0.13830	1.23703	-0.17838	-0.22468
2	1.38129	-0.03451	-0.05188	1.34888	-0.06692	-0.08429
3	1.40422	-0.01093	-0.01643	1.39396	-0.02120	-0.02670
4	1.40265	-0.01207	-0.01814	1.39132	-0.02340	-0.02947
5	1.40763	-0.00899	-0.01351	1.39919	-0.01743	-0.02195
6	1.42266	-0.01074	-0.01614	1.41258	-0.02081	-0.02622
7	1.40905	-0.00756	-0.01137	1.40195	-0.01466	-0.01847
8	1.41509	-0.01223	-0.01839	1.40360	-0.02372	-0.02987
9	1.40606	-0.00906	-0.01362	1.39755	-0.01757	-0.02213
10	1.40208	-0.01422	-0.02138	1.38872	-0.02758	-0.03473
11	1.40652	-0.00776	-0.01167	1.39923	-0.01505	-0.01896
12	1.40519	-0.00963	-0.01447	1.39615	-0.01867	-0.02351
13	1.40734	-0.00978	-0.01470	1.39816	-0.01897	-0.02389
14	1.40378	-0.01536	-0.02308	1.38936	-0.02977	-0.03750
15	1.40611	-0.00907	-0.01364	1.39759	-0.01759	-0.02216
16	1.41140	-0.00243	-0.00366	1.40912	-0.00472	-0.00594
17	1.40490	-0.00874	-0.01313	1.39669	-0.01694	-0.02134
18	1.40771	-0.00705	-0.01060	1.40108	-0.01367	-0.01722
19	1.39424	-0.02037	-0.03062	1.37511	-0.03949	-0.04974
20	1.40413	-0.01035	-0.01557	1.39440	-0.02008	-0.02529
21	1.40138	-0.01297	-0.01949	1.38921	-0.02514	-0.03167
22	1.39737	-0.01690	-0.02541	1.38150	-0.03277	-0.04128
23	1.40213	-0.01191	-0.01791	1.39095	-0.02310	-0.02909
24	1.40379	-0.01039	-0.01562	1.39403	-0.02015	-0.02538
25	1.41037	-0.00385	-0.00578	1.40676	-0.00746	-0.00939
26	1.41379	-0.00332	-0.00499	1.41067	-0.00643	-0.00810
27	0.31694	0.06414	-0.00881	0.29757	0.04477	-0.02818
28	0.31745	0.06461	-0.00887	0.29794	0.04510	-0.02839
29	0.32695	0.07420	-0.01019	0.30454	0.05179	-0.03260
30	0.32138	0.06868	-0.00943	0.30064	0.04793	-0.03017
31	0.32630	0.07358	-0.01011	0.30408	0.05136	-0.03233
32	0.31284	0.06007	-0.00825	0.29470	0.04193	-0.02640
33	0.31032	0.05757	-0.00791	0.29293	0.04018	-0.02529
34	0.31556	0.06281	-0.00863	0.29660	0.04384	-0.02760
35	0.30582	0.05294	-0.00727	0.28983	0.03695	-0.02326
36	0.34038	0.08774	-0.01205	0.31389	0.06124	-0.03855
37	0.33552	0.08291	-0.01139	0.31048	0.05787	-0.03643
38	0.33367	0.08099	-0.01112	0.30921	0.05653	-0.03558
39	0.33238	0.07979	-0.01096	0.30828	0.05570	-0.03506
40	0.32746	0.07479	-0.01027	0.30487	0.05220	-0.03286
41	0.31958	0.06689	-0.00919	0.29938	0.04669	-0.02939
42	0.32933	0.07663	-0.01053	0.30618	0.05348	-0.03367
43	0.33546	0.08276	-0.01137	0.31046	0.05776	-0.03636
44	0.88963	0.05875	-0.00529	0.89214	0.06125	-0.00279
45	0.88894	0.05981	-0.00539	0.89148	0.06236	-0.00284
46	0.88797	0.05445	-0.00491	0.89029	0.05677	-0.00259
47	0.87306	0.04019	-0.00362	0.87477	0.04191	-0.00191
48	0.85467	0.02129	-0.00192	0.85557	0.02220	-0.00101
49	0.86898	0.03750	-0.00338	0.87057	0.03910	-0.00178
50	0.88564	0.05333	-0.00481	0.88791	0.05560	-0.00253
51	0.86418	0.03221	-0.00290	0.86555	0.03358	-0.00153
52	0.85969	0.02600	-0.00234	0.86080	0.02711	-0.00123
53	0.87553	0.04291	-0.00387	0.87736	0.04474	-0.00204
54	0.85681	0.02531	-0.00228	0.85789	0.02639	-0.00120
55	0.86800	0.03393	-0.00306	0.86944	0.03538	-0.00161
56	0.86430	0.03063	-0.00276	0.86560	0.03194	-0.00145
57	0.88778	0.05513	-0.00497	0.89013	0.05748	-0.00262
58	0.87521	0.04434	-0.00400	0.87710	0.04623	-0.00211
59	0.87482	0.04235	-0.00382	0.87662	0.04416	-0.00201
60	0.86367	0.03194	-0.00288	0.86503	0.03330	-0.00152
61	0.85338	0.02030	-0.00183	0.85424	0.02117	-0.00096
62	0.85847	0.02496	-0.00225	0.85954	0.02602	-0.00119
63	1.32955	-0.03377	-0.05031	1.37141	0.00809	-0.00844
64	1.26281	-0.10061	-0.14988	1.38753	0.02411	-0.02516
65	1.33999	-0.02435	-0.03628	1.37017	0.00584	-0.00609
66	1.33234	-0.03438	-0.05122	1.37496	0.00824	-0.00860
67	1.27597	-0.07758	-0.11558	1.37215	0.01859	-0.01940
68	1.31996	-0.03336	-0.04970	1.36131	0.00799	-0.00834
69	1.27513	-0.07436	-0.11078	1.36731	0.01782	-0.01859
70	1.34301	-0.02838	-0.04227	1.37819	0.00680	-0.00709
71	1.36100	-0.01920	-0.02860	1.38480	0.00460	-0.00480
72	1.31630	-0.04645	-0.06920	1.37388	0.01113	-0.01161
73	1.33012	-0.03432	-0.05112	1.37266	0.00822	-0.00858
74	1.38646	-0.01808	-0.02693	1.40887	0.00433	-0.00452
75	1.35069	-0.01858	-0.02767	1.37372	0.00445	-0.00464
76	1.36095	-0.01502	-0.02238	1.37957	0.00360	-0.00376

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.43 The Elasticities with respect to Employments from Model 3 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.43695	0.00235	0.00353	-0.43475	0.00455	0.00573
2	-0.43294	0.00374	0.00563	-0.42943	0.00726	0.00914
3	-0.43784	0.00282	0.00424	-0.43519	0.00547	0.00689
4	-0.43576	0.00442	0.00664	-0.43161	0.00857	0.01079
5	-0.44045	0.00243	0.00365	-0.43816	0.00471	0.00594
6	-0.43823	0.00300	0.00451	-0.43541	0.00582	0.00733
7	-0.43999	0.00306	0.00460	-0.43712	0.00593	0.00747
8	-0.43876	0.00480	0.00721	-0.43425	0.00931	0.01172
9	-0.43749	0.00282	0.00424	-0.43484	0.00547	0.00689
10	-0.44060	0.00076	0.00114	-0.43988	0.00147	0.00186
11	-0.43973	0.00273	0.00411	-0.43716	0.00530	0.00668
12	-0.43678	0.00219	0.00329	-0.43472	0.00424	0.00534
13	-0.43502	0.00636	0.00955	-0.42905	0.01232	0.01552
14	-0.43987	0.00324	0.00488	-0.43682	0.00629	0.00792
15	-0.43971	0.00407	0.00612	-0.43589	0.00789	0.00994
16	-0.43707	0.00529	0.00795	-0.43210	0.01025	0.01291
17	-0.43954	0.00373	0.00561	-0.43603	0.00724	0.00912
18	-0.44022	0.00326	0.00490	-0.43716	0.00632	0.00796
19	-0.44129	0.00120	0.00181	-0.44016	0.00233	0.00294
20	-0.44246	0.00104	0.00156	-0.44149	0.00201	0.00254
21	-0.09699	-0.01963	0.00270	-0.09106	-0.01370	0.00862
22	-0.09766	-0.01988	0.00273	-0.09165	-0.01387	0.00873
23	-0.09989	-0.02267	0.00311	-0.09304	-0.01582	0.00996
24	-0.09819	-0.02098	0.00288	-0.09186	-0.01465	0.00922
25	-0.09966	-0.02247	0.00309	-0.09287	-0.01569	0.00987
26	-0.09544	-0.01833	0.00252	-0.08991	-0.01279	0.00805
27	-0.09448	-0.01753	0.00241	-0.08918	-0.01223	0.00770
28	-0.09653	-0.01921	0.00264	-0.09072	-0.01341	0.00844
29	-0.09317	-0.01613	0.00222	-0.08830	-0.01126	0.00709
30	-0.10434	-0.02689	0.00369	-0.09621	-0.01877	0.01182
31	-0.10247	-0.02532	0.00348	-0.09482	-0.01767	0.01113
32	-0.10218	-0.02480	0.00341	-0.09469	-0.01731	0.01090
33	-0.10042	-0.02411	0.00331	-0.09314	-0.01683	0.01059
34	-0.09993	-0.02282	0.00313	-0.09303	-0.01593	0.01003
35	-0.09800	-0.02051	0.00282	-0.09180	-0.01432	0.00901
36	-0.10115	-0.02354	0.00323	-0.09404	-0.01643	0.01034
37	-0.10299	-0.02541	0.00349	-0.09532	-0.01773	0.01116
38	0.33367	0.08099	-0.01112	0.30921	0.05653	-0.03558
39	0.33238	0.07979	-0.01096	0.30828	0.05570	-0.03506
40	0.32746	0.07479	-0.01027	0.30487	0.05220	-0.03286
41	0.31958	0.06689	-0.00919	0.29938	0.04669	-0.02939
42	0.32933	0.07663	-0.01053	0.30618	0.05348	-0.03367
43	0.33546	0.08276	-0.01137	0.31046	0.05776	-0.03636

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.26840	-0.01773	0.00160	-0.26916	-0.01848	0.00084
45	-0.26324	-0.01771	0.00160	-0.26400	-0.01847	0.00084
46	-0.27145	-0.01665	0.00150	-0.27216	-0.01736	0.00079
47	-0.26448	-0.01218	0.00110	-0.26500	-0.01269	0.00058
48	-0.25934	-0.00646	0.00058	-0.25961	-0.00673	0.00031
49	-0.26091	-0.01126	0.00101	-0.26139	-0.01174	0.00053
50	-0.26944	-0.01622	0.00146	-0.27013	-0.01691	0.00077
51	-0.25961	-0.00968	0.00087	-0.26002	-0.01009	0.00046
52	-0.26278	-0.00795	0.00072	-0.26312	-0.00829	0.00038
53	-0.26630	-0.01305	0.00118	-0.26686	-0.01361	0.00062
54	-0.25709	-0.00759	0.00068	-0.25741	-0.00792	0.00036
55	-0.26591	-0.01040	0.00094	-0.26635	-0.01084	0.00049
56	-0.26300	-0.00932	0.00084	-0.26339	-0.00972	0.00044
57	-0.26981	-0.01676	0.00151	-0.27053	-0.01747	0.00080
58	-0.26212	-0.01328	0.00120	-0.26269	-0.01385	0.00063
59	-0.26511	-0.01284	0.00116	-0.26566	-0.01338	0.00061
60	-0.25875	-0.00957	0.00086	-0.25916	-0.00998	0.00045
61	-0.25727	-0.00612	0.00055	-0.25753	-0.00638	0.00029
62	-0.26092	-0.00759	0.00068	-0.26124	-0.00791	0.00036
63	-0.40570	0.01031	0.01535	-0.41848	-0.00247	0.00258
64	-0.38588	0.03074	0.04580	-0.42399	-0.00737	0.00769
65	-0.40841	0.00742	0.01106	-0.41761	-0.00178	0.00186
66	-0.40568	0.01047	0.01560	-0.41866	-0.00251	0.00262
67	-0.39323	0.02391	0.03562	-0.42287	-0.00573	0.00598
68	-0.40812	0.01031	0.01537	-0.42091	-0.00247	0.00258
69	-0.39444	0.02300	0.03427	-0.42296	-0.00551	0.00575
70	-0.40740	0.00861	0.01282	-0.41807	-0.00206	0.00215
71	-0.41076	0.00580	0.00863	-0.41795	-0.00139	0.00145
72	-0.40436	0.01427	0.02126	-0.42205	-0.00342	0.00357
73	-0.40614	0.01048	0.01561	-0.41913	-0.00251	0.00262
74	-0.40713	0.00531	0.00791	-0.41371	-0.00127	0.00133
75	-0.41022	0.00564	0.00841	-0.41722	-0.00135	0.00141
76	-0.41118	0.00454	0.00676	-0.41681	-0.00109	0.00113

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.44 The Elasticities with respect to Distances from Model 3 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.47016	0.03268	0.04913	-0.43947	0.06337	0.07982
2	-0.55272	0.01381	0.02076	-0.53975	0.02678	0.03373
3	-0.51105	0.00398	0.00598	-0.50732	0.00771	0.00972
4	-0.51156	0.00440	0.00662	-0.50743	0.00853	0.01075
5	-0.51579	0.00329	0.00495	-0.51270	0.00639	0.00804
6	-0.54076	0.00408	0.00613	-0.53693	0.00791	0.00997
7	-0.62836	0.00337	0.00507	-0.62519	0.00654	0.00824
8	-0.57845	0.00500	0.00752	-0.57376	0.00970	0.01221
9	-0.65409	0.00421	0.00634	-0.65013	0.00817	0.01029
10	-0.52346	0.00531	0.00798	-0.51848	0.01030	0.01297
11	-0.63295	0.00349	0.00525	-0.62967	0.00677	0.00853
12	-0.75733	0.00519	0.00780	-0.75246	0.01006	0.01267
13	-0.85034	0.00591	0.00888	-0.84479	0.01146	0.01443
14	-0.95443	0.01044	0.01569	-0.94463	0.02024	0.02550
15	-0.58653	0.00379	0.00569	-0.58298	0.00734	0.00924
16	-0.61598	0.00106	0.00160	-0.61498	0.00206	0.00259
17	-0.56203	0.00350	0.00525	-0.55875	0.00678	0.00854
18	-0.74581	0.00374	0.00562	-0.74230	0.00724	0.00912
19	-0.59753	0.00873	0.01312	-0.58933	0.01693	0.02132
20	-0.64495	0.00476	0.00715	-0.64048	0.00922	0.01162
21	-0.59781	0.00553	0.00832	-0.59262	0.01073	0.01351
22	-0.55104	0.00667	0.01002	-0.54478	0.01292	0.01628
23	-0.53420	0.00454	0.00682	-0.52994	0.00880	0.01108
24	-0.56964	0.00422	0.00634	-0.56568	0.00818	0.01030
25	-0.63288	0.00173	0.00259	-0.63126	0.00335	0.00421
26	-0.82291	0.00193	0.00290	-0.82110	0.00375	0.00472
27	-0.28818	-0.05832	0.00801	-0.27057	-0.04070	0.02562
28	-0.27877	-0.05674	0.00779	-0.26163	-0.03960	0.02493
29	-0.26509	-0.06016	0.00826	-0.24692	-0.04199	0.02644
30	-0.21981	-0.04697	0.00645	-0.20563	-0.03279	0.02064
31	-0.24545	-0.05535	0.00760	-0.22873	-0.03863	0.02432
32	-0.27680	-0.05315	0.00730	-0.26075	-0.03710	0.02335
33	-0.28259	-0.05242	0.00720	-0.26676	-0.03659	0.02303
34	-0.32881	-0.06545	0.00899	-0.30904	-0.04568	0.02876
35	-0.36271	-0.06279	0.00863	-0.34375	-0.04383	0.02759
36	-0.16264	-0.04192	0.00576	-0.14998	-0.02926	0.01842
37	-0.15906	-0.03931	0.00540	-0.14719	-0.02743	0.01727
38	-0.19369	-0.04701	0.00646	-0.17949	-0.03281	0.02066
39	-0.20992	-0.05040	0.00692	-0.19470	-0.03517	0.02214
40	-0.20181	-0.04609	0.00633	-0.18789	-0.03217	0.02025
41	-0.18012	-0.03770	0.00518	-0.16874	-0.02632	0.01657
42	-0.18044	-0.04198	0.00577	-0.16776	-0.02930	0.01845
43	-0.18003	-0.04441	0.00610	-0.16662	-0.03100	0.01951

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.40681	-0.02687	0.00242	-0.40795	-0.02801	0.00128
45	-0.50167	-0.03375	0.00304	-0.50311	-0.03519	0.00160
46	-0.54171	-0.03322	0.00299	-0.54312	-0.03464	0.00158
47	-0.61827	-0.02846	0.00256	-0.61949	-0.02968	0.00135
48	-0.65571	-0.01633	0.00147	-0.65641	-0.01703	0.00078
49	-0.59020	-0.02547	0.00230	-0.59129	-0.02656	0.00121
50	-0.44437	-0.02676	0.00241	-0.44551	-0.02790	0.00127
51	-0.64714	-0.02412	0.00217	-0.64817	-0.02515	0.00115
52	-0.55088	-0.01666	0.00150	-0.55159	-0.01737	0.00079
53	-0.49997	-0.02450	0.00221	-0.50101	-0.02555	0.00116
54	-0.58285	-0.01722	0.00155	-0.58358	-0.01795	0.00082
55	-0.57346	-0.02242	0.00202	-0.57442	-0.02337	0.00106
56	-0.63824	-0.02262	0.00204	-0.63920	-0.02358	0.00107
57	-0.53348	-0.03313	0.00299	-0.53489	-0.03454	0.00157
58	-0.55632	-0.02819	0.00254	-0.55753	-0.02939	0.00134
59	-0.55859	-0.02704	0.00244	-0.55974	-0.02820	0.00128
60	-0.66162	-0.02447	0.00220	-0.66267	-0.02551	0.00116
61	-0.73611	-0.01751	0.00158	-0.73686	-0.01826	0.00083
62	-0.67346	-0.01958	0.00176	-0.67429	-0.02041	0.00093
63	-1.34306	0.03412	0.05082	-1.38535	-0.00818	0.00853
64	-1.28439	0.10233	0.15244	-1.41124	-0.02452	0.02558
65	-1.37698	0.02503	0.03728	-1.40800	-0.00600	0.00626
66	-1.52142	0.03926	0.05849	-1.57010	-0.00941	0.00982
67	-1.11323	0.06769	0.10083	-1.19714	-0.01622	0.01692
68	-1.10146	0.02784	0.04147	-1.13597	-0.00667	0.00696
69	-0.91966	0.05363	0.07989	-0.98615	-0.01285	0.01341
70	-1.57950	0.03337	0.04971	-1.62087	-0.00800	0.00834
71	-1.57271	0.02219	0.03305	-1.60021	-0.00532	0.00555
72	-1.38856	0.04900	0.07299	-1.44930	-0.01174	0.01225
73	-1.42060	0.03665	0.05460	-1.46603	-0.00878	0.00916
74	-1.68620	0.02198	0.03275	-1.71345	-0.00527	0.00550
75	-1.75954	0.02420	0.03605	-1.78954	-0.00580	0.00605
76	-1.82120	0.02010	0.02995	-1.84612	-0.00482	0.00503

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.45 The Elasticities with respect to Food Expense Shares from Model 3 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-2.63722	0.06590	0.09906	-2.57535	0.12777	0.16093
2	-2.11076	0.01643	0.02470	-2.09533	0.03186	0.04013
3	-2.82694	0.02432	0.03656	-2.80410	0.04716	0.05939
4	-2.72074	0.01737	0.02612	-2.70443	0.03369	0.04243
5	-2.70088	0.02038	0.03064	-2.68175	0.03952	0.04977
6	-3.10077	0.01664	0.02502	-3.08515	0.03227	0.04064
7	-2.38379	0.02061	0.03098	-2.36444	0.03995	0.05032
8	-2.75779	0.01777	0.02671	-2.74111	0.03446	0.04340
9	-2.23844	0.02271	0.03413	-2.21712	0.04403	0.05545
10	-2.69239	0.01486	0.02234	-2.67843	0.02881	0.03629
11	-2.65462	0.01819	0.02734	-2.63754	0.03526	0.04441
12	-2.32003	0.01613	0.02424	-2.30488	0.03127	0.03938
13	-1.76835	0.01934	0.02908	-1.75019	0.03751	0.04724
14	-2.72298	0.01757	0.02642	-2.70648	0.03407	0.04291
15	-2.45204	0.00423	0.00635	-2.44808	0.00820	0.01032
16	-3.18429	0.01980	0.02977	-3.16569	0.03840	0.04837
17	-3.24159	0.01624	0.02441	-3.22635	0.03149	0.03966
18	-2.34744	0.03429	0.05155	-2.31524	0.06650	0.08375
19	-3.06575	0.02261	0.03399	-3.04452	0.04384	0.05521
20	-2.56954	0.02378	0.03574	-2.54722	0.04610	0.05807
21	-2.39876	0.02902	0.04362	-2.37152	0.05626	0.07086
22	-2.92125	0.02482	0.03731	-2.89795	0.04812	0.06061
23	-3.16212	0.02341	0.03519	-3.14014	0.04539	0.05717
24	-3.23469	0.00882	0.01326	-3.22641	0.01710	0.02154
25	-3.52933	0.00828	0.01245	-3.52155	0.01606	0.02023
26	-0.68256	-0.13813	0.01897	-0.64084	-0.09641	0.06069
27	-0.72858	-0.14829	0.02037	-0.68379	-0.10350	0.06515
28	-0.67417	-0.15301	0.02102	-0.62796	-0.10680	0.06723
29	-0.69163	-0.14779	0.02030	-0.64699	-0.10316	0.06494
30	-0.69205	-0.15605	0.02143	-0.64492	-0.10892	0.06857
31	-0.71881	-0.13803	0.01896	-0.67712	-0.09634	0.06065
32	-0.87488	-0.16229	0.02229	-0.82586	-0.11328	0.07131
33	-0.81848	-0.16291	0.02238	-0.76928	-0.11371	0.07158
34	-1.04472	-0.18086	0.02484	-0.99010	-0.12624	0.07947
35	-0.54254	-0.13984	0.01921	-0.50030	-0.09761	0.06144
36	-0.65029	-0.16069	0.02207	-0.60176	-0.11216	0.07060
37	-0.60737	-0.14742	0.02025	-0.56285	-0.10289	0.06477
38	-0.72202	-0.17334	0.02381	-0.66967	-0.12098	0.07616
39	-0.65687	-0.15002	0.02061	-0.61156	-0.10471	0.06592
40	-0.78819	-0.16498	0.02266	-0.73836	-0.11515	0.07249
41	-0.73399	-0.17078	0.02346	-0.68241	-0.11920	0.07504
42	-0.70802	-0.17467	0.02399	-0.65527	-0.12191	0.07675
43	-0.18003	-0.04441	0.00610	-0.16662	-0.03100	0.01951
44	-1.97704	-0.13056	0.01176	-1.98261	-0.13613	0.00620
45	-1.76566	-0.11879	0.01070	-1.77072	-0.12385	0.00564
46	-1.78107	-0.10922	0.00984	-1.78573	-0.11388	0.00519
47	-2.20862	-0.10168	0.00916	-2.21296	-0.10601	0.00483
48	-2.11899	-0.05278	0.00476	-2.12124	-0.05503	0.00251
49	-2.20185	-0.09502	0.00856	-2.20589	-0.09907	0.00451
50	-2.12963	-0.12823	0.01155	-2.13510	-0.13370	0.00609
51	-2.19785	-0.08191	0.00738	-2.20134	-0.08540	0.00389
52	-2.22570	-0.06731	0.00607	-2.22857	-0.07018	0.00320
53	-1.99186	-0.09763	0.00880	-1.99602	-0.10179	0.00464
54	-2.06364	-0.06095	0.00549	-2.06624	-0.06355	0.00290
55	-2.17027	-0.08485	0.00765	-2.17388	-0.08846	0.00403
56	-2.09743	-0.07433	0.00670	-2.10059	-0.07750	0.00353
57	-1.62274	-0.10077	0.00908	-1.62703	-0.10506	0.00479
58	-1.87776	-0.09514	0.00857	-1.88182	-0.09919	0.00452
59	-2.10385	-0.10186	0.00918	-2.10819	-0.10620	0.00484
60	-2.22574	-0.08232	0.00742	-2.22925	-0.08582	0.00391
61	-2.35919	-0.05612	0.00506	-2.36158	-0.05852	0.00267
62	-2.20253	-0.06403	0.00577	-2.20526	-0.06676	0.00304
63	-2.00811	0.05101	0.07599	-2.07134	-0.01222	0.01275
64	-1.28190	0.10213	0.15214	-1.40850	-0.02448	0.02554
65	-2.45065	0.04454	0.06635	-2.50586	-0.01067	0.01114
66	-2.23095	0.05758	0.08577	-2.30233	-0.01380	0.01440
67	-1.58735	0.09652	0.14378	-1.70699	-0.02313	0.02413
68	-2.21584	0.05600	0.08343	-2.28526	-0.01342	0.01400
69	-2.03747	0.11882	0.17700	-2.18476	-0.02847	0.02971
70	-2.43250	0.05140	0.07656	-2.49621	-0.01232	0.01285
71	-2.78775	0.03933	0.05859	-2.83651	-0.00943	0.00983
72	-1.82191	0.06429	0.09578	-1.90161	-0.01541	0.01607
73	-2.36005	0.06089	0.09070	-2.43553	-0.01459	0.01522
74	-3.58686	0.04676	0.06966	-3.64483	-0.01121	0.01169
75	-2.41691	0.03324	0.04952	-2.45812	-0.00797	0.00831
76	-3.44717	0.03805	0.05668	-3.49434	-0.00912	0.00951

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.46 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 1 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.47791	-0.03322	-0.04994	0.44671	-0.06442	-0.08114
2	0.58405	-0.01459	-0.02194	0.57034	-0.02830	-0.03564
3	0.47873	-0.00373	-0.00560	0.47523	-0.00723	-0.00910
4	0.54401	-0.00468	-0.00704	0.53961	-0.00907	-0.01143
5	0.45810	-0.00293	-0.00440	0.45535	-0.00567	-0.00714
6	0.47964	-0.00362	-0.00544	0.47624	-0.00702	-0.00884
7	0.54735	-0.00294	-0.00442	0.54460	-0.00570	-0.00717
8	0.38284	-0.00331	-0.00497	0.37974	-0.00642	-0.00808
9	0.46825	-0.00302	-0.00454	0.46542	-0.00585	-0.00737
10	0.35350	-0.00359	-0.00539	0.35014	-0.00695	-0.00876
11	0.44419	-0.00245	-0.00369	0.44189	-0.00475	-0.00599
12	0.43974	-0.00301	-0.00453	0.43691	-0.00584	-0.00736
13	0.37931	-0.00264	-0.00396	0.37684	-0.00511	-0.00644
14	0.32577	-0.00356	-0.00536	0.32243	-0.00691	-0.00870
15	0.40877	-0.00264	-0.00397	0.40629	-0.00511	-0.00644
16	0.36833	-0.00064	-0.00095	0.36773	-0.00123	-0.00155
17	0.55062	-0.00342	-0.00515	0.54741	-0.00664	-0.00836
18	0.51747	-0.00259	-0.00390	0.51504	-0.00503	-0.00633
19	0.50730	-0.00741	-0.01114	0.50034	-0.01437	-0.01810
20	0.59400	-0.00438	-0.00659	0.58989	-0.00849	-0.01070
21	0.59794	-0.00553	-0.00832	0.59274	-0.01073	-0.01351
22	0.46006	-0.00557	-0.00837	0.45484	-0.01079	-0.01359
23	0.54489	-0.00463	-0.00696	0.54054	-0.00898	-0.01131
24	0.72360	-0.00536	-0.00805	0.71857	-0.01039	-0.01308
25	0.46030	-0.00125	-0.00189	0.45912	-0.00243	-0.00306
26	0.52906	-0.00124	-0.00187	0.52789	-0.00241	-0.00303
27	0.10406	0.02106	-0.00289	0.09770	0.01470	-0.00925
28	0.10209	0.02078	-0.00285	0.09582	0.01450	-0.00913
29	0.10544	0.02393	-0.00329	0.09821	0.01670	-0.01051
30	0.10858	0.02320	-0.00319	0.10157	0.01619	-0.01019
31	0.10750	0.02424	-0.00333	0.10017	0.01692	-0.01065
32	0.11344	0.02178	-0.00299	0.10686	0.01520	-0.00957
33	0.12882	0.02390	-0.00328	0.12160	0.01668	-0.01050
34	0.12765	0.02541	-0.00349	0.11998	0.01773	-0.01116
35	0.19725	0.03415	-0.00469	0.18694	0.02384	-0.01500
36	0.09649	0.02487	-0.00342	0.08898	0.01736	-0.01093
37	0.10740	0.02654	-0.00365	0.09939	0.01852	-0.01166
38	0.10769	0.02614	-0.00359	0.09980	0.01824	-0.01148
39	0.15078	0.03620	-0.00497	0.13984	0.02526	-0.01590
40	0.10943	0.02499	-0.00343	0.10188	0.01744	-0.01098
41	0.10990	0.02300	-0.00316	0.10295	0.01606	-0.01011
42	0.11154	0.02595	-0.00356	0.10370	0.01811	-0.01140
43	0.12853	0.03171	-0.00436	0.11896	0.02213	-0.01393
44	0.28236	0.01865	-0.00168	0.28315	0.01944	-0.00089
45	0.32071	0.02158	-0.00194	0.32163	0.02250	-0.00102
46	0.30457	0.01868	-0.00168	0.30536	0.01947	-0.00089
47	0.39195	0.01804	-0.00163	0.39272	0.01881	-0.00086
48	0.24088	0.00600	-0.00054	0.24114	0.00626	-0.00028
49	0.31941	0.01378	-0.00124	0.32000	0.01437	-0.00065
50	0.33809	0.02036	-0.00183	0.33896	0.02122	-0.00097
51	0.33122	0.01234	-0.00111	0.33175	0.01287	-0.00059
52	0.30843	0.00933	-0.00084	0.30882	0.00973	-0.00044
53	0.34166	0.01675	-0.00151	0.34237	0.01746	-0.00080
54	0.24013	0.00709	-0.00064	0.24043	0.00739	-0.00034
55	0.28584	0.01117	-0.00101	0.28631	0.01165	-0.00053
56	0.31222	0.01106	-0.00100	0.31269	0.01154	-0.00053
57	0.21976	0.01365	-0.00123	0.22034	0.01423	-0.00065
58	0.27138	0.01375	-0.00124	0.27197	0.01434	-0.00065
59	0.31325	0.01517	-0.00137	0.31390	0.01581	-0.00072
60	0.34501	0.01276	-0.00115	0.34555	0.01330	-0.00061
61	0.37321	0.00888	-0.00080	0.37359	0.00926	-0.00042
62	0.26999	0.00785	-0.00071	0.27032	0.00818	-0.00037
63	0.30360	-0.00771	-0.01149	0.31316	0.00185	-0.00193
64	0.25207	-0.02008	-0.02992	0.27696	0.00481	-0.00502
65	0.35891	-0.00652	-0.00972	0.36700	0.00156	-0.00163
66	0.42748	-0.01103	-0.01643	0.44115	0.00264	-0.00276
67	0.24693	-0.01501	-0.02237	0.26555	0.00360	-0.00375
68	0.33398	-0.00844	-0.01257	0.34445	0.00202	-0.00211
69	0.30448	-0.01776	-0.02645	0.32649	0.00426	-0.00444
70	0.34691	-0.00733	-0.01092	0.35599	0.00176	-0.00183
71	0.43087	-0.00608	-0.00906	0.43840	0.00146	-0.00152
72	0.24573	-0.00867	-0.01292	0.25648	0.00208	-0.00217
73	0.36022	-0.00929	-0.01384	0.37174	0.00223	-0.00232
74	0.61976	-0.00808	-0.01204	0.62977	0.00194	-0.00202
75	0.41266	-0.00568	-0.00846	0.41970	0.00136	-0.00142
76	0.55152	-0.00609	-0.00907	0.55906	0.00146	-0.00152

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.47 The Elasticities with respect to Wages from Model 2 of Group 1 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	12.11209	-1.12494	-0.09036	11.23843	-1.99860	-0.96402
2	12.22227	-0.96926	-0.07786	11.46952	-1.72202	-0.83061
3	12.99935	-0.20739	-0.01666	12.83829	-0.36845	-0.17772
4	13.03580	-0.21793	-0.01751	12.86655	-0.38717	-0.18675
5	13.05841	-0.22109	-0.01776	12.88670	-0.39280	-0.18947
6	13.09180	-0.22199	-0.01783	12.91940	-0.39440	-0.19024
7	12.93509	-0.14986	-0.01204	12.81870	-0.26625	-0.12842
8	13.01090	-0.18136	-0.01457	12.87005	-0.32221	-0.15542
9	12.89996	-0.13495	-0.01084	12.79515	-0.23976	-0.11565
10	13.00487	-0.20651	-0.01659	12.84449	-0.36689	-0.17697
11	12.91376	-0.15073	-0.01211	12.79669	-0.26780	-0.12917
12	12.83838	-0.10533	-0.00846	12.75658	-0.18713	-0.09026
13	12.75874	-0.07769	-0.00624	12.69840	-0.13803	-0.06658
14	12.69335	-0.05786	-0.00465	12.64842	-0.10279	-0.04958
15	13.00869	-0.18461	-0.01483	12.86532	-0.32797	-0.15820
16	12.96839	-0.16178	-0.01300	12.84275	-0.28742	-0.13863
17	13.01092	-0.18977	-0.01524	12.86354	-0.33715	-0.16262
18	12.95180	-0.12000	-0.00964	12.85860	-0.21319	-0.10283
19	12.91902	-0.13895	-0.01116	12.81110	-0.24686	-0.11907
20	12.86165	-0.11745	-0.00943	12.77043	-0.20867	-0.10065
21	12.93085	-0.15604	-0.01253	12.80967	-0.27722	-0.13372
22	12.93454	-0.16096	-0.01293	12.80953	-0.28596	-0.13793
23	12.99129	-0.18624	-0.01496	12.84665	-0.33089	-0.15960
24	12.92866	-0.15426	-0.01239	12.80885	-0.27407	-0.13220
25	12.90983	-0.12861	-0.01033	12.80995	-0.22850	-0.11022
26	12.70914	-0.06405	-0.00515	12.65939	-0.11380	-0.05489
27	18.14628	-0.21888	0.00000	18.11874	-0.24642	-0.02754
28	18.12060	-0.24628	0.00000	18.08962	-0.27727	-0.03099
29	18.06500	-0.33477	0.00000	18.02288	-0.37689	-0.04212
30	17.89002	-0.57399	-0.00001	17.81780	-0.64621	-0.07222
31	17.99501	-0.42841	0.00000	17.94111	-0.48231	-0.05390
32	18.11945	-0.23298	0.00000	18.09014	-0.26229	-0.02931
33	18.16105	-0.22408	0.00000	18.13286	-0.25227	-0.02819
34	18.22342	-0.13286	0.00000	18.20670	-0.14958	-0.01672
35	18.24685	-0.06700	0.00000	18.23842	-0.07543	-0.00843
36	17.17902	-1.50689	-0.00002	16.98944	-1.69648	-0.18961
37	17.08130	-1.65971	-0.00002	16.87249	-1.86852	-0.20883
38	17.65995	-0.86251	-0.00001	17.55143	-0.97103	-0.10853
39	17.79666	-0.68359	-0.00001	17.71065	-0.76960	-0.08601
40	17.75224	-0.76222	-0.00001	17.65634	-0.85811	-0.09591
41	17.58627	-0.95035	-0.00001	17.46670	-1.06992	-0.11958
42	17.53507	-1.02376	-0.00001	17.40626	-1.15257	-0.12882
43	17.51740	-1.06127	-0.00001	17.38388	-1.19480	-0.13354
44	1.52828	0.13031	-0.23674	1.69602	0.29805	-0.06900
45	1.50514	0.12363	-0.22459	1.66427	0.28276	-0.06546
46	1.49192	0.12015	-0.21827	1.64657	0.27480	-0.06362
47	1.47359	0.11445	-0.20791	1.62090	0.26176	-0.06060
48	1.46857	0.11236	-0.20413	1.61320	0.25700	-0.05950
49	1.47482	0.11544	-0.20971	1.62341	0.26403	-0.06112
50	1.50489	0.12489	-0.22688	1.66564	0.28565	-0.06613
51	1.47484	0.11375	-0.20664	1.62125	0.26016	-0.06023
52	1.47352	0.11491	-0.20876	1.62143	0.26282	-0.06084
53	1.49396	0.12085	-0.21954	1.64951	0.27640	-0.06399
54	1.47196	0.11331	-0.20584	1.61781	0.25916	-0.05999
55	1.46989	0.11384	-0.20680	1.61641	0.26036	-0.06027
56	1.46181	0.10999	-0.19982	1.60338	0.25157	-0.05824
57	1.48178	0.11824	-0.21481	1.63398	0.27044	-0.06261
58	1.50557	0.12172	-0.22113	1.66225	0.27840	-0.06445
59	1.47536	0.11606	-0.21084	1.62475	0.26545	-0.06145
60	1.46648	0.11104	-0.20172	1.60941	0.25396	-0.05879
61	1.46037	0.10758	-0.19543	1.59884	0.24605	-0.05696
62	1.46035	0.10992	-0.19968	1.60183	0.25140	-0.05820
63	10.08705	-0.44511	-0.22781	10.29790	-0.23427	-0.01696
64	10.08852	-0.45178	-0.23122	10.30252	-0.23778	-0.01722
65	10.08833	-0.44519	-0.22785	10.29921	-0.23431	-0.01697
66	10.17388	-0.33245	-0.17015	10.33136	-0.17497	-0.01267
67	9.88628	-0.67353	-0.34471	10.20532	-0.35449	-0.02567
68	9.79144	-0.76922	-0.39369	10.15582	-0.40485	-0.02932
69	9.55359	-1.04624	-0.53546	10.04918	-0.55065	-0.03987
70	10.22702	-0.27316	-0.13980	10.35641	-0.14377	-0.01041
71	10.22102	-0.27273	-0.13958	10.35021	-0.14354	-0.01039
72	10.13029	-0.38859	-0.19888	10.31436	-0.20452	-0.01481
73	10.14728	-0.37398	-0.19140	10.32443	-0.19683	-0.01425
74	10.26226	-0.23217	-0.11882	10.37224	-0.12219	-0.00885
75	10.28441	-0.20057	-0.10265	10.37942	-0.10556	-0.00764
76	10.30217	-0.18193	-0.09311	10.38835	-0.09575	-0.00693

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.48 The Elasticities with respect to Employment Rates from Model 2 of Group 1 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.24674	0.02292	0.00184	-0.22894	0.04071	0.01964
2	-0.24919	0.01976	0.00159	-0.23384	0.03511	0.01693
3	-0.26596	0.00424	0.00034	-0.26267	0.00754	0.00364
4	-0.26442	0.00442	0.00036	-0.26099	0.00785	0.00379
5	-0.26326	0.00446	0.00036	-0.25980	0.00792	0.00382
6	-0.26123	0.00443	0.00036	-0.25779	0.00787	0.00380
7	-0.26630	0.00309	0.00025	-0.26391	0.00548	0.00264
8	-0.26387	0.00368	0.00030	-0.26102	0.00653	0.00315
9	-0.26641	0.00279	0.00022	-0.26425	0.00495	0.00239
10	-0.26531	0.00421	0.00034	-0.26204	0.00748	0.00361
11	-0.26734	0.00312	0.00025	-0.26492	0.00554	0.00267
12	-0.26667	0.00219	0.00018	-0.26497	0.00389	0.00187
13	-0.26876	0.00164	0.00013	-0.26749	0.00291	0.00140
14	-0.26923	0.00123	0.00010	-0.26828	0.00218	0.00105
15	-0.26421	0.00375	0.00030	-0.26130	0.00666	0.00321
16	-0.26535	0.00331	0.00027	-0.26278	0.00588	0.00284
17	-0.26448	0.00386	0.00031	-0.26148	0.00685	0.00331
18	-0.26200	0.00243	0.00019	-0.26011	0.00431	0.00208
19	-0.26697	0.00287	0.00023	-0.26474	0.00510	0.00246
20	-0.26766	0.00244	0.00020	-0.26576	0.00434	0.00209
21	-0.26671	0.00322	0.00026	-0.26421	0.00572	0.00276
22	-0.26732	0.00333	0.00027	-0.26474	0.00591	0.00285
23	-0.26582	0.00381	0.00031	-0.26286	0.00677	0.00327
24	-0.26754	0.00319	0.00026	-0.26506	0.00567	0.00274
25	-0.26699	0.00266	0.00021	-0.26492	0.00473	0.00228
26	-0.26943	0.00136	0.00011	-0.26838	0.00241	0.00116
27	-0.38643	0.00466	0.00000	-0.38584	0.00525	0.00059
28	-0.38804	0.00527	0.00000	-0.38737	0.00594	0.00066
29	-0.38306	0.00710	0.00000	-0.38217	0.00799	0.00089
30	-0.37744	0.01211	0.00000	-0.37591	0.01363	0.00152
31	-0.38125	0.00908	0.00000	-0.38010	0.01022	0.00114
32	-0.38702	0.00498	0.00000	-0.38640	0.00560	0.00063
33	-0.38408	0.00474	0.00000	-0.38348	0.00534	0.00060
34	-0.38973	0.00284	0.00000	-0.38937	0.00320	0.00036
35	-0.38777	0.00142	0.00000	-0.38759	0.00160	0.00018
36	-0.36160	0.03172	0.00000	-0.35761	0.03571	0.00399
37	-0.35809	0.03479	0.00000	-0.35371	0.03917	0.00438
38	-0.37373	0.01825	0.00000	-0.37143	0.02055	0.00230
39	-0.37637	0.01446	0.00000	-0.37455	0.01628	0.00182
40	-0.37345	0.01603	0.00000	-0.37143	0.01805	0.00202
41	-0.37219	0.02011	0.00000	-0.36966	0.02264	0.00253
42	-0.37077	0.02165	0.00000	-0.36805	0.02437	0.00272
43	-0.37001	0.02242	0.00000	-0.36719	0.02524	0.00282

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.03119	-0.00266	0.00483	-0.03461	-0.00608	0.00141
45	-0.03089	-0.00254	0.00461	-0.03415	-0.00580	0.00134
46	-0.03096	-0.00249	0.00453	-0.03417	-0.00570	0.00132
47	-0.03118	-0.00242	0.00440	-0.03430	-0.00554	0.00128
48	-0.03112	-0.00238	0.00432	-0.03418	-0.00545	0.00126
49	-0.03124	-0.00245	0.00444	-0.03439	-0.00559	0.00129
50	-0.03132	-0.00260	0.00472	-0.03467	-0.00595	0.00138
51	-0.03069	-0.00237	0.00430	-0.03373	-0.00541	0.00125
52	-0.03117	-0.00243	0.00442	-0.03430	-0.00556	0.00129
53	-0.03095	-0.00250	0.00455	-0.03418	-0.00573	0.00133
54	-0.03075	-0.00237	0.00430	-0.03379	-0.00541	0.00125
55	-0.03134	-0.00243	0.00441	-0.03447	-0.00555	0.00129
56	-0.03106	-0.00234	0.00425	-0.03407	-0.00535	0.00124
57	-0.03131	-0.00250	0.00454	-0.03453	-0.00571	0.00132
58	-0.03020	-0.00244	0.00444	-0.03334	-0.00558	0.00129
59	-0.03133	-0.00246	0.00448	-0.03450	-0.00564	0.00131
60	-0.03077	-0.00233	0.00423	-0.03377	-0.00533	0.00123
61	-0.03051	-0.00225	0.00408	-0.03340	-0.00514	0.00119
62	-0.03122	-0.00235	0.00427	-0.03424	-0.00537	0.00124
63	-0.21352	0.00942	0.00482	-0.21799	0.00496	0.00036
64	-0.21239	0.00951	0.00487	-0.21690	0.00501	0.00036
65	-0.21303	0.00940	0.00481	-0.21749	0.00495	0.00036
66	-0.21565	0.00705	0.00361	-0.21899	0.00371	0.00027
67	-0.20939	0.01427	0.00730	-0.21615	0.00751	0.00054
68	-0.20776	0.01632	0.00835	-0.21549	0.00859	0.00062
69	-0.20180	0.02210	0.01131	-0.21227	0.01163	0.00084
70	-0.21725	0.00580	0.00297	-0.22000	0.00305	0.00022
71	-0.21795	0.00582	0.00298	-0.22070	0.00306	0.00022
72	-0.21602	0.00829	0.00424	-0.21994	0.00436	0.00032
73	-0.21504	0.00793	0.00406	-0.21879	0.00417	0.00030
74	-0.21564	0.00488	0.00250	-0.21795	0.00257	0.00019
75	-0.21688	0.00423	0.00216	-0.21888	0.00223	0.00016
76	-0.21431	0.00378	0.00194	-0.21611	0.00199	0.00014

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table D.49 The Elasticities with respect to Distances from Model 2 of Group 1 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.89992	0.08358	0.00671	-0.83501	0.14849	0.07163
2	-1.00456	0.07966	0.00640	-0.94269	0.14153	0.06827
3	-0.97798	0.01560	0.00125	-0.96586	0.02772	0.01337
4	-0.97953	0.01638	0.00132	-0.96682	0.02909	0.01403
5	-0.99350	0.01682	0.00135	-0.98044	0.02989	0.01442
6	-1.02776	0.01743	0.00140	-1.01423	0.03096	0.01493
7	-1.17461	0.01361	0.00109	-1.16404	0.02418	0.01166
8	-1.09944	0.01533	0.00123	-1.08753	0.02723	0.01313
9	-1.22648	0.01283	0.00103	-1.21651	0.02280	0.01100
10	-0.98780	0.01569	0.00126	-0.97562	0.02787	0.01344
11	-1.14594	0.01338	0.00107	-1.13555	0.02376	0.01146
12	-1.37795	0.01131	0.00091	-1.36917	0.02009	0.00969
13	-1.56692	0.00954	0.00077	-1.55951	0.01695	0.00818
14	-1.77126	0.00807	0.00065	-1.76499	0.01434	0.00692
15	-1.08237	0.01536	0.00123	-1.07044	0.02729	0.01316
16	-1.14681	0.01431	0.00115	-1.13570	0.02542	0.01226
17	-1.06222	0.01549	0.00124	-1.05019	0.02753	0.01328
18	-1.38838	0.01286	0.00103	-1.37839	0.02285	0.01102
19	-1.22118	0.01313	0.00106	-1.21098	0.02333	0.01126
20	-1.30528	0.01192	0.00096	-1.29602	0.02118	0.01021
21	-1.13566	0.01370	0.00110	-1.12502	0.02435	0.01174
22	-1.11302	0.01385	0.00111	-1.10226	0.02461	0.01187
23	-1.05513	0.01513	0.00122	-1.04339	0.02687	0.01296
24	-1.14210	0.01363	0.00109	-1.13152	0.02421	0.01168
25	-1.27806	0.01273	0.00102	-1.26817	0.02262	0.01091
26	-1.69241	0.00853	0.00069	-1.68578	0.01515	0.00731
27	-3.45350	0.04166	0.00000	-3.44825	0.04690	0.00524
28	-3.33151	0.04528	0.00000	-3.32581	0.05098	0.00570
29	-3.05112	0.05654	0.00000	-3.04400	0.06365	0.00711
30	-2.55484	0.08197	0.00000	-2.54453	0.09228	0.01031
31	-2.81869	0.06710	0.00000	-2.81025	0.07555	0.00844
32	-3.37500	0.04340	0.00000	-3.36954	0.04886	0.00546
33	-3.45241	0.04260	0.00000	-3.44705	0.04796	0.00536
34	-3.95468	0.02883	0.00000	-3.95105	0.03246	0.00363
35	-4.60990	0.01693	0.00000	-4.60777	0.01906	0.00213
36	-1.74835	0.15336	0.00000	-1.72905	0.17265	0.01930
37	-1.69855	0.16504	0.00000	-1.67779	0.18580	0.02077
38	-2.18218	0.10658	0.00000	-2.16877	0.11999	0.01341
39	-2.38625	0.09166	0.00000	-2.37472	0.10319	0.01153
40	-2.30737	0.09907	0.00000	-2.29491	0.11153	0.01247
41	-2.09326	0.11312	0.00000	-2.07903	0.12735	0.01423
42	-2.03637	0.11889	0.00000	-2.02141	0.13385	0.01496
43	-2.01794	0.12225	0.00000	-2.00256	0.13764	0.01538

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.14743	-0.01257	0.02284	-0.16361	-0.02875	0.00666
45	-0.17366	-0.01426	0.02591	-0.19202	-0.03262	0.00755
46	-0.18602	-0.01498	0.02721	-0.20530	-0.03426	0.00793
47	-0.21409	-0.01663	0.03021	-0.23550	-0.03803	0.00880
48	-0.22823	-0.01746	0.03172	-0.25071	-0.03994	0.00925
49	-0.20530	-0.01607	0.02919	-0.22599	-0.03675	0.00851
50	-0.15951	-0.01324	0.02405	-0.17655	-0.03028	0.00701
51	-0.22477	-0.01734	0.03149	-0.24708	-0.03965	0.00918
52	-0.20879	-0.01628	0.02958	-0.22975	-0.03724	0.00862
53	-0.18231	-0.01475	0.02679	-0.20129	-0.03373	0.00781
54	-0.22427	-0.01726	0.03136	-0.24649	-0.03949	0.00914
55	-0.21388	-0.01656	0.03009	-0.23520	-0.03788	0.00877
56	-0.24276	-0.01827	0.03318	-0.26627	-0.04178	0.00967
57	-0.18737	-0.01495	0.02716	-0.20661	-0.03420	0.00792
58	-0.19536	-0.01579	0.02869	-0.21570	-0.03613	0.00836
59	-0.19931	-0.01568	0.02848	-0.21949	-0.03586	0.00830
60	-0.23976	-0.01815	0.03298	-0.26313	-0.04152	0.00961
61	-0.26864	-0.01979	0.03595	-0.29411	-0.04526	0.01048
62	-0.24072	-0.01812	0.03292	-0.26404	-0.04144	0.00959
63	-2.46086	0.10859	0.05558	-2.51230	0.05715	0.00414
64	-2.45462	0.10992	0.05626	-2.50669	0.05785	0.00419
65	-2.46261	0.10867	0.05562	-2.51408	0.05720	0.00414
66	-2.74360	0.08965	0.04588	-2.78607	0.04718	0.00342
67	-2.04545	0.13935	0.07132	-2.11146	0.07334	0.00531
68	-1.90297	0.14950	0.07651	-1.97379	0.07868	0.00570
69	-1.61146	0.17647	0.09032	-1.69505	0.09288	0.00673
70	-2.94396	0.07863	0.04024	-2.98120	0.04139	0.00300
71	-2.93801	0.07840	0.04012	-2.97515	0.04126	0.00299
72	-2.59000	0.09935	0.05085	-2.63706	0.05229	0.00379
73	-2.63453	0.09710	0.04969	-2.68053	0.05110	0.00370
74	-3.11104	0.07038	0.03602	-3.14438	0.03704	0.00268
75	-3.25332	0.06345	0.03247	-3.28337	0.03339	0.00242
76	-3.35706	0.05929	0.03034	-3.38514	0.03120	0.00226

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Appendix E Additional Tables for Section 6

E.1 Additional Tables for Section 6.2

This appendix presents tables that reports a percentage change in the probability of migrating to a province for single male migrants who moved to look for a job (group 1) and got a job in the agricultural sector in 2002, 2004 – 2008 and 2011 – 2012.

Table E.1 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2002 and 2004 (Model 2; Ag Sector)

Province	2002			2004			Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.23188	-0.08945	-0.01254	0.18126	-0.04958	-0.00795	44	0.18230	-0.01096	-0.00011	0.21145	-0.01300	-0.00163
2	0.23856	-0.09319	-0.01307	0.19005	-0.04228	-0.00678	45	0.18329	-0.00883	-0.00009	0.21334	-0.01133	-0.00142
3	0.31369	-0.00641	-0.00090	0.22614	-0.00401	-0.00064	46	0.18486	-0.00797	-0.00008	0.21341	-0.00940	-0.00118
4	0.31078	-0.00596	-0.00083	0.22410	-0.00381	-0.00061	47	0.18666	-0.00568	-0.00006	0.21508	-0.00717	-0.00090
5	0.30903	-0.00721	-0.00101	0.22343	-0.00403	-0.00065	48	0.18727	-0.00467	-0.00005	0.21577	-0.00611	-0.00076
6	0.30783	-0.00694	-0.00097	0.22327	-0.00401	-0.00064	49	0.18462	-0.00710	-0.00007	0.21466	-0.00893	-0.00112
7	0.31739	-0.00803	-0.00113	0.22577	-0.00355	-0.00057	50	0.18117	-0.01236	-0.00013	0.21115	-0.01296	-0.00162
8	0.30988	-0.00696	-0.00098	0.22484	-0.00399	-0.00064	51	0.18581	-0.00496	-0.00005	0.21556	-0.00684	-0.00086
9	0.31743	-0.00845	-0.00118	0.22683	-0.00366	-0.00059	52	0.18495	-0.00791	-0.00008	0.21453	-0.00855	-0.00107
10	0.29644	-0.00417	-0.00058	0.21719	-0.00345	-0.00055	53	0.18188	-0.01157	-0.00012	0.21236	-0.01202	-0.00150
11	0.32404	-0.00515	-0.00072	0.23137	-0.00359	-0.00058	54	0.18584	-0.00640	-0.00007	0.21532	-0.00749	-0.00094
12	0.32990	-0.00311	-0.00044	0.23399	-0.00282	-0.00045	55	0.18546	-0.00621	-0.00006	0.21562	-0.00748	-0.00094
13	0.33269	-0.00209	-0.00029	0.23400	-0.00222	-0.00036	56	0.18722	-0.00470	-0.00005	0.21598	-0.00575	-0.00072
14	0.33393	-0.00117	-0.00016	0.23311	-0.00161	-0.00026	57	0.18299	-0.01093	-0.00011	0.21247	-0.01112	-0.00139
15	0.31542	-0.00487	-0.00068	0.22991	-0.00412	-0.00066	58	0.18380	-0.00968	-0.00010	0.21329	-0.01044	-0.00131
16	0.31959	-0.00801	-0.00112	0.22787	-0.00388	-0.00062	59	0.18376	-0.00952	-0.00010	0.21323	-0.01011	-0.00126
17	0.31362	-0.00903	-0.00127	0.22689	-0.00446	-0.00071	60	0.18694	-0.00520	-0.00005	0.21572	-0.00629	-0.00079
18	0.32772	-0.00462	-0.00065	0.23240	-0.00316	-0.00051	61	0.18773	-0.00312	-0.00003	0.21701	-0.00445	-0.00056
19	0.32513	-0.00466	-0.00065	0.23130	-0.00339	-0.00054	62	0.18724	-0.00441	-0.00005	0.21664	-0.00584	-0.00073
20	0.33021	-0.00500	-0.00070	0.23348	-0.00333	-0.00053	63	0.06646	-0.00164	-0.00047	0.11814	-0.00475	-0.00160
21	0.31292	-0.00471	-0.00066	0.22913	-0.00400	-0.00064	64	0.06663	-0.00164	-0.00047	0.11819	-0.00464	-0.00157
22	0.32267	-0.00632	-0.00089	0.22872	-0.00357	-0.00057	65	0.06660	-0.00162	-0.00047	0.11838	-0.00462	-0.00156
23	0.32024	-0.00663	-0.00093	0.22849	-0.00383	-0.00061	66	0.06670	-0.00129	-0.00037	0.11863	-0.00350	-0.00118
24	0.32801	-0.00821	-0.00115	0.23098	-0.00376	-0.00060	67	0.06647	-0.00231	-0.00067	0.11714	-0.00689	-0.00233
25	0.32555	-0.00379	-0.00053	0.23157	-0.00313	-0.00050	68	0.06636	-0.00259	-0.00075	0.11683	-0.00805	-0.00272
26	0.32728	-0.00097	-0.00014	0.22880	-0.00153	-0.00025	69	0.06613	-0.00334	-0.00096	0.11511	-0.01056	-0.00356
27	0.06063	-0.00049	-0.00009	0.10518	-0.00159	-0.00045	70	0.06657	-0.00113	-0.00032	0.11838	-0.00299	-0.00101
28	0.06068	-0.00051	-0.00009	0.10533	-0.00169	-0.00048	71	0.06667	-0.00114	-0.00033	0.11861	-0.00302	-0.00102
29	0.06088	-0.00059	-0.00011	0.10517	-0.00192	-0.00055	72	0.06660	-0.00148	-0.00043	0.11825	-0.00413	-0.00139
30	0.06106	-0.00074	-0.00013	0.10506	-0.00244	-0.00070	73	0.06658	-0.00143	-0.00041	0.11825	-0.00398	-0.00134
31	0.06082	-0.00065	-0.00012	0.10560	-0.00222	-0.00063	74	0.06669	-0.00099	-0.00029	0.11848	-0.00257	-0.00087
32	0.06072	-0.00052	-0.00009	0.10513	-0.00169	-0.00048	75	0.06673	-0.00089	-0.00026	0.11856	-0.00227	-0.00077
33	0.06087	-0.00050	-0.00009	0.10511	-0.00161	-0.00046	76	0.06671	-0.00082	-0.00024	0.11871	-0.00209	-0.00071
34	0.06079	-0.00042	-0.00008	0.10514	-0.00131	-0.00037							
35	0.06054	-0.00029	-0.00005	0.10495	-0.00090	-0.00026							
36	0.06070	-0.00088	-0.00016	0.10502	-0.00320	-0.00091							
37	0.06098	-0.00086	-0.00016	0.10523	-0.00309	-0.00088							
38	0.06073	-0.00078	-0.00014	0.10536	-0.00277	-0.00079							
39	0.06097	-0.00074	-0.00014	0.10521	-0.00251	-0.00072							
40	0.06113	-0.00081	-0.00015	0.10508	-0.00271	-0.00077							
41	0.06117	-0.00089	-0.00016	0.10512	-0.00302	-0.00086							
42	0.06097	-0.00088	-0.00016	0.10504	-0.00303	-0.00086							
43	0.06106	-0.00095	-0.00017	0.10490	-0.00325	-0.00093							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.2 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2005 and 2006 (Model 2; Ag Sector)

Province	2005			2006			Province	2005			2006		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.01550	-0.00181	-0.00038	1.80443	-0.38100	-0.07668	44	0.01450	-0.00087	-0.00049	1.12981	-0.03333	-0.01900
2	0.01535	-0.00175	-0.00036	1.84990	-0.31641	-0.06368	45	0.01461	-0.00075	-0.00042	1.13134	-0.03077	-0.01754
3	0.01687	-0.00027	-0.00006	2.14497	-0.03994	-0.00804	46	0.01465	-0.00071	-0.00040	1.13439	-0.02963	-0.01689
4	0.01685	-0.00027	-0.00006	2.14088	-0.03993	-0.00804	47	0.01477	-0.00059	-0.00033	1.13552	-0.02653	-0.01513
5	0.01683	-0.00028	-0.00006	2.14485	-0.04176	-0.00840	48	0.01487	-0.00052	-0.00029	1.13394	-0.02462	-0.01404
6	0.01682	-0.00027	-0.00006	2.13990	-0.04041	-0.00813	49	0.01470	-0.00065	-0.00036	1.13525	-0.02817	-0.01606
7	0.01688	-0.00024	-0.00005	2.13145	-0.03388	-0.00682	50	0.01452	-0.00085	-0.00048	1.13205	-0.03336	-0.01902
8	0.01683	-0.00026	-0.00005	2.13846	-0.03815	-0.00768	51	0.01481	-0.00056	-0.00031	1.13509	-0.02563	-0.01461
9	0.01690	-0.00024	-0.00005	2.13273	-0.03364	-0.00677	52	0.01473	-0.00064	-0.00036	1.13265	-0.02813	-0.01604
10	0.01683	-0.00029	-0.00006	2.13712	-0.04255	-0.00856	53	0.01461	-0.00076	-0.00043	1.13151	-0.03134	-0.01787
11	0.01687	-0.00023	-0.00005	2.13673	-0.03135	-0.00631	54	0.01478	-0.00059	-0.00033	1.13482	-0.02679	-0.01528
12	0.01692	-0.00018	-0.00004	2.12273	-0.02375	-0.00478	55	0.01474	-0.00062	-0.00035	1.13475	-0.02738	-0.01561
13	0.01694	-0.00016	-0.00003	2.11865	-0.02008	-0.00404	56	0.01485	-0.00052	-0.00029	1.13615	-0.02470	-0.01408
14	0.01697	-0.00013	-0.00003	2.10770	-0.01610	-0.00324	57	0.01461	-0.00074	-0.00042	1.13341	-0.03069	-0.01750
15	0.01684	-0.00025	-0.00005	2.13821	-0.03518	-0.00708	58	0.01466	-0.00070	-0.00039	1.13365	-0.02960	-0.01688
16	0.01685	-0.00024	-0.00005	2.13343	-0.03425	-0.00689	59	0.01465	-0.00069	-0.00039	1.13521	-0.02971	-0.01694
17	0.01694	-0.00026	-0.00005	2.14453	-0.04000	-0.00805	60	0.01487	-0.00052	-0.00029	1.13348	-0.02445	-0.01394
18	0.01695	-0.00019	-0.00004	2.10799	-0.02456	-0.00494	61	0.01494	-0.00043	-0.00024	1.13721	-0.02189	-0.01248
19	0.01688	-0.00022	-0.00005	2.13265	-0.03037	-0.00611	62	0.01486	-0.00050	-0.00028	1.13705	-0.02400	-0.01368
20	0.01689	-0.00020	-0.00004	2.12918	-0.02799	-0.00563	63	0.01587	-0.00054	-0.00007	1.30481	-0.04228	-0.01200
21	0.01689	-0.00024	-0.00005	2.14383	-0.03560	-0.00716	64	0.01588	-0.00053	-0.00007	1.30601	-0.04198	-0.01191
22	0.01695	-0.00023	-0.00005	2.14342	-0.03498	-0.00704	65	0.01588	-0.00053	-0.00007	1.30502	-0.04132	-0.01172
23	0.01694	-0.00024	-0.00005	2.14636	-0.03705	-0.00746	66	0.01601	-0.00040	-0.00005	1.30792	-0.03402	-0.00965
24	0.01711	-0.00021	-0.00004	2.14487	-0.03411	-0.00686	67	0.01559	-0.00080	-0.00010	1.29953	-0.05559	-0.01578
25	0.01690	-0.00021	-0.00004	2.13389	-0.02895	-0.00583	68	0.01546	-0.00091	-0.00012	1.29639	-0.06061	-0.01720
26	0.01688	-0.00015	-0.00003	2.10700	-0.01840	-0.00370	69	0.01516	-0.00121	-0.00016	1.28842	-0.07399	-0.02099
27	0.01825	-0.00030	-0.00001	2.08518	-0.04864	-0.00670	70	0.01608	-0.00034	-0.00004	1.31086	-0.03090	-0.00877
28	0.01820	-0.00033	-0.00001	2.08282	-0.05240	-0.00722	71	0.01607	-0.00034	-0.00004	1.31025	-0.03093	-0.00878
29	0.01814	-0.00039	-0.00002	2.07411	-0.06236	-0.00859	72	0.01593	-0.00048	-0.00006	1.30853	-0.03905	-0.01108
30	0.01801	-0.00054	-0.00002	2.05555	-0.08600	-0.01184	73	0.01595	-0.00046	-0.00006	1.30879	-0.03803	-0.01079
31	0.01806	-0.00046	-0.00002	2.06801	-0.07383	-0.01017	74	0.01613	-0.00029	-0.00004	1.31218	-0.02760	-0.00783
32	0.01820	-0.00033	-0.00001	2.08145	-0.05269	-0.00726	75	0.01617	-0.00025	-0.00003	1.31437	-0.02528	-0.00717
33	0.01823	-0.00030	-0.00001	2.08361	-0.04886	-0.00673	76	0.01621	-0.00023	-0.00003	1.31301	-0.02334	-0.00662
34	0.01834	-0.00022	-0.00001	2.09324	-0.03648	-0.00502							
35	0.01841	-0.00014	-0.00001	2.09768	-0.02261	-0.00311							
36	0.01766	-0.00085	-0.00003	2.02707	-0.13391	-0.01844							
37	0.01766	-0.00084	-0.00003	2.03096	-0.12854	-0.01770							
38	0.01784	-0.00067	-0.00003	2.04705	-0.10593	-0.01459							
39	0.01795	-0.00058	-0.00002	2.05254	-0.09193	-0.01266							
40	0.01789	-0.00063	-0.00002	2.04401	-0.09935	-0.01368							
41	0.01776	-0.00074	-0.00003	2.03427	-0.11529	-0.01588							
42	0.01775	-0.00075	-0.00003	2.03279	-0.11701	-0.01612							
43	0.01771	-0.00078	-0.00003	2.02853	-0.12503	-0.01722							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.3 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2007 and 2008 (Model 2; Ag Sector)

Province	2007			2008		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.37307	0.01684	-0.05622	0.13567	-0.01115	-0.00283
2	0.36714	0.01589	-0.05305	0.13627	-0.01008	-0.00256
3	0.35849	0.00222	-0.00742	0.14547	-0.00148	-0.00037
4	0.35802	0.00222	-0.00743	0.14537	-0.00149	-0.00038
5	0.35862	0.00224	-0.00748	0.14543	-0.00152	-0.00038
6	0.35811	0.00222	-0.00742	0.14497	-0.00148	-0.00038
7	0.35235	0.00208	-0.00694	0.14458	-0.00133	-0.00034
8	0.35535	0.00216	-0.00721	0.14493	-0.00143	-0.00036
9	0.35247	0.00206	-0.00688	0.14463	-0.00131	-0.00033
10	0.36034	0.00228	-0.00760	0.14531	-0.00156	-0.00040
11	0.35079	0.00203	-0.00677	0.14474	-0.00127	-0.00032
12	0.34348	0.00184	-0.00614	0.14391	-0.00108	-0.00027
13	0.33998	0.00173	-0.00577	0.14346	-0.00095	-0.00024
14	0.33610	0.00161	-0.00537	0.14307	-0.00083	-0.00021
15	0.35317	0.00211	-0.00705	0.14482	-0.00137	-0.00035
16	0.35366	0.00210	-0.00702	0.14434	-0.00134	-0.00034
17	0.35696	0.00220	-0.00733	0.14524	-0.00146	-0.00037
18	0.34367	0.00188	-0.00628	0.14304	-0.00111	-0.00028
19	0.34899	0.00200	-0.00669	0.14469	-0.00127	-0.00032
20	0.34782	0.00195	-0.00652	0.14435	-0.00120	-0.00030
21	0.35400	0.00210	-0.00702	0.14521	-0.00135	-0.00034
22	0.35293	0.00209	-0.00699	0.14517	-0.00136	-0.00035
23	0.35514	0.00214	-0.00716	0.14546	-0.00141	-0.00036
24	0.35239	0.00207	-0.00692	0.14537	-0.00135	-0.00034
25	0.34751	0.00196	-0.00655	0.14478	-0.00124	-0.00031
26	0.33746	0.00169	-0.00565	0.14368	-0.00096	-0.00024
27	0.99692	-0.01602	-0.00285	0.12390	-0.00239	-0.00134
28	0.99589	-0.01729	-0.00307	0.12385	-0.00251	-0.00141
29	0.99234	-0.02066	-0.00367	0.12357	-0.00279	-0.00157
30	0.98384	-0.02846	-0.00506	0.12318	-0.00340	-0.00191
31	0.98836	-0.02412	-0.00429	0.12349	-0.00308	-0.00173
32	0.99448	-0.01730	-0.00307	0.12368	-0.00250	-0.00140
33	0.99658	-0.01612	-0.00287	0.12389	-0.00240	-0.00135
34	1.00097	-0.01192	-0.00212	0.12412	-0.00200	-0.00112
35	1.01062	-0.00778	-0.00138	0.12439	-0.00152	-0.00085
36	0.96878	-0.04353	-0.00774	0.12259	-0.00436	-0.00245
37	0.96938	-0.04301	-0.00764	0.12272	-0.00426	-0.00239
38	0.97742	-0.03450	-0.00613	0.12297	-0.00381	-0.00214
39	0.98138	-0.03051	-0.00542	0.12317	-0.00354	-0.00199
40	0.97908	-0.03297	-0.00586	0.12293	-0.00373	-0.00209
41	0.97489	-0.03777	-0.00671	0.12273	-0.00406	-0.00228
42	0.97349	-0.03865	-0.00687	0.12268	-0.00409	-0.00230
43	0.97216	-0.04114	-0.00731	0.12261	-0.00428	-0.00240
44	1.01891	-0.04035	-0.00825	0.37448	-0.03284	-0.00320
45	1.02478	-0.03466	-0.00709	0.38040	-0.02351	-0.00229
46	1.02821	-0.03195	-0.00654	0.38558	-0.02004	-0.00195
47	1.03414	-0.02602	-0.00532	0.39041	-0.01325	-0.00129
48	1.03691	-0.02303	-0.00471	0.39263	-0.01050	-0.00102
49	1.03198	-0.02842	-0.00581	0.38818	-0.01667	-0.00162
50	1.02137	-0.03827	-0.00783	0.37568	-0.03148	-0.00307
51	1.03598	-0.02427	-0.00496	0.39136	-0.01183	-0.00115
52	1.03258	-0.02737	-0.00560	0.38693	-0.01725	-0.00168
53	1.02693	-0.03428	-0.00701	0.37941	-0.02569	-0.00250
54	1.03589	-0.02488	-0.00509	0.38828	-0.01405	-0.00137
55	1.03429	-0.02543	-0.00520	0.38957	-0.01477	-0.00144
56	1.03987	-0.02139	-0.00438	0.39273	-0.01075	-0.00105
57	1.02796	-0.03322	-0.00680	0.38098	-0.02352	-0.00229
58	1.02994	-0.03123	-0.00639	0.38364	-0.02054	-0.00200
59	1.03096	-0.03073	-0.00629	0.38534	-0.02123	-0.00207
60	1.03820	-0.02212	-0.00453	0.39145	-0.01062	-0.00103
61	1.04237	-0.01755	-0.00359	0.39464	-0.00660	-0.00064
62	1.04018	-0.02145	-0.00439	0.39347	-0.00940	-0.00092
63	0.33201	0.01007	-0.01532	0.21364	-0.01082	-0.00197
64	0.33040	0.00996	-0.01516	0.21402	-0.01068	-0.00195
65	0.32813	0.00983	-0.01496	0.21417	-0.01051	-0.00192
66	0.32502	0.00891	-0.01356	0.21577	-0.00747	-0.00136
67	0.33118	0.01128	-0.01716	0.20975	-0.01727	-0.00315
68	0.32735	0.01153	-0.01755	0.20741	-0.01967	-0.00359
69	0.32917	0.01264	-0.01923	0.20133	-0.02763	-0.00504
70	0.33030	0.00868	-0.01320	0.21675	-0.00627	-0.00114
71	0.32878	0.00863	-0.01313	0.21697	-0.00635	-0.00116
72	0.33227	0.00969	-0.01474	0.21513	-0.00937	-0.00171
73	0.33237	0.00958	-0.01457	0.21523	-0.00891	-0.00163
74	0.32767	0.00816	-0.01242	0.21745	-0.00517	-0.00094
75	0.32604	0.00777	-0.01182	0.21811	-0.00443	-0.00081
76	0.32375	0.00745	-0.01134	0.21781	-0.00385	-0.00070

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.4 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2011 and 2012 (Model 2; Ag Sector)

Province	2011			2012			Province	2011			2012		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.00341	-0.00021	0.00043	0.75447	-0.07007	-0.00563	44	-0.00267	-0.00026	0.00002	0.09520	0.00812	-0.01475
2	-0.00341	-0.00020	0.00042	0.76133	-0.06038	-0.00485	45	-0.00265	-0.00025	0.00002	0.09376	0.00770	-0.01399
3	-0.00324	-0.00004	0.00008	0.80974	-0.01292	-0.00104	46	-0.00265	-0.00024	0.00002	0.09293	0.00748	-0.01360
4	-0.00324	-0.00004	0.00007	0.81201	-0.01357	-0.00109	47	-0.00264	-0.00023	0.00001	0.09179	0.00713	-0.01295
5	-0.00324	-0.00004	0.00007	0.81342	-0.01377	-0.00111	48	-0.00263	-0.00022	0.00001	0.09148	0.00700	-0.01272
6	-0.00328	-0.00004	0.00007	0.81549	-0.01383	-0.00111	49	-0.00264	-0.00023	0.00001	0.09187	0.00719	-0.01306
7	-0.00324	-0.00003	0.00007	0.80573	-0.00933	-0.00075	50	-0.00267	-0.00026	0.00002	0.09374	0.00778	-0.01413
8	-0.00326	-0.00004	0.00007	0.81046	-0.01130	-0.00091	51	-0.00263	-0.00022	0.00001	0.09187	0.00709	-0.01287
9	-0.00323	-0.00003	0.00007	0.80354	-0.00841	-0.00068	52	-0.00265	-0.00024	0.00001	0.09179	0.00716	-0.01300
10	-0.00324	-0.00004	0.00007	0.81008	-0.01286	-0.00103	53	-0.00266	-0.00025	0.00002	0.09306	0.00753	-0.01368
11	-0.00323	-0.00003	0.00007	0.80440	-0.00939	-0.00075	54	-0.00264	-0.00023	0.00001	0.09169	0.00706	-0.01282
12	-0.00323	-0.00003	0.00007	0.79971	-0.00656	-0.00053	55	-0.00265	-0.00023	0.00001	0.09156	0.00709	-0.01288
13	-0.00324	-0.00003	0.00006	0.79475	-0.00484	-0.00039	56	-0.00264	-0.00022	0.00001	0.09106	0.00685	-0.01245
14	-0.00324	-0.00003	0.00006	0.79068	-0.00360	-0.00029	57	-0.00265	-0.00024	0.00002	0.09230	0.00737	-0.01338
15	-0.00324	-0.00004	0.00007	0.81032	-0.01150	-0.00092	58	-0.00264	-0.00024	0.00001	0.09378	0.00758	-0.01377
16	-0.00323	-0.00003	0.00007	0.80781	-0.01008	-0.00081	59	-0.00265	-0.00024	0.00001	0.09190	0.00723	-0.01313
17	-0.00323	-0.00004	0.00007	0.81046	-0.01182	-0.00095	60	-0.00263	-0.00022	0.00001	0.09135	0.00692	-0.01257
18	-0.00323	-0.00003	0.00007	0.80677	-0.00747	-0.00060	61	-0.00262	-0.00021	0.00001	0.09097	0.00670	-0.01217
19	-0.00323	-0.00004	0.00007	0.80473	-0.00866	-0.00070	62	-0.00263	-0.00022	0.00001	0.09097	0.00685	-0.01244
20	-0.00323	-0.00003	0.00007	0.80116	-0.00732	-0.00059	63	-0.01749	0.00103	0.00025	0.62833	-0.02773	-0.01419
21	-0.00323	-0.00004	0.00007	0.80547	-0.00972	-0.00078	64	-0.01753	0.00100	0.00024	0.62842	-0.02814	-0.01440
22	-0.00323	-0.00004	0.00007	0.80570	-0.01003	-0.00081	65	-0.01758	0.00095	0.00023	0.62841	-0.02773	-0.01419
23	-0.00323	-0.00004	0.00007	0.80923	-0.01160	-0.00093	66	-0.01800	0.00057	0.00014	0.63374	-0.02071	-0.01060
24	-0.00323	-0.00004	0.00007	0.80533	-0.00961	-0.00077	67	-0.01646	0.00193	0.00047	0.61582	-0.04195	-0.02147
25	-0.00323	-0.00003	0.00007	0.80416	-0.00801	-0.00064	68	-0.01612	0.00226	0.00055	0.60991	-0.04792	-0.02452
26	-0.00324	-0.00003	0.00006	0.79166	-0.00399	-0.00032	69	-0.01459	0.00375	0.00091	0.59510	-0.06517	-0.03335
27	-0.00131	-0.00031	0.00003	1.13034	-0.01363	-0.0000001	70	-0.01815	0.00048	0.00012	0.63705	-0.01702	-0.00871
28	-0.00131	-0.00031	0.00003	1.12874	-0.01534	-0.0000002	71	-0.01824	0.00051	0.00012	0.63667	-0.01699	-0.00869
29	-0.00131	-0.00032	0.00003	1.12528	-0.02085	-0.0000002	72	-0.01767	0.00084	0.00020	0.63102	-0.02421	-0.01239
30	-0.00132	-0.00033	0.00004	1.11438	-0.03575	-0.0000004	73	-0.01774	0.00080	0.00019	0.63208	-0.02330	-0.01192
31	-0.00132	-0.00032	0.00004	1.12092	-0.02669	-0.0000003	74	-0.01872	0.00036	0.00009	0.63924	-0.01446	-0.00740
32	-0.00131	-0.00031	0.00003	1.12867	-0.01451	-0.0000002	75	-0.01832	0.00028	0.00007	0.64062	-0.01249	-0.00639
33	-0.00131	-0.00031	0.00003	1.13126	-0.01396	-0.0000002	76	-0.01846	0.00023	0.00006	0.64173	-0.01133	-0.00580
34	-0.00130	-0.00030	0.00003	1.13515	-0.00828	-0.0000001							
35	-0.00129	-0.00029	0.00003	1.13661	-0.00417	0.0000000							
36	-0.00134	-0.00034	0.00004	1.07009	-0.09386	-0.0000010							
37	-0.00134	-0.00034	0.00004	1.06400	-0.10338	-0.0000011							
38	-0.00133	-0.00034	0.00004	1.10005	-0.05373	-0.0000006							
39	-0.00133	-0.00033	0.00004	1.10856	-0.04258	-0.0000005							
40	-0.00133	-0.00033	0.00004	1.10580	-0.04748	-0.0000005							
41	-0.00133	-0.00034	0.00004	1.09546	-0.05920	-0.0000006							
42	-0.00133	-0.00034	0.00004	1.09227	-0.06377	-0.0000007							
43	-0.00134	-0.00034	0.00004	1.09117	-0.06611	-0.0000007							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.5 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2002 and 2004 (Model 2; Ag Sector)

Province	2002			2004			Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.00310	-0.00120	-0.00017	-0.05186	0.01418	0.00227	44	0.00244	-0.00015	0.00000	-0.06050	0.00372	0.00047
2	0.00319	-0.00125	-0.00017	-0.05438	0.01210	0.00194	45	0.00245	-0.00012	0.00000	-0.06104	0.00324	0.00041
3	0.00419	-0.00009	-0.00001	-0.06471	0.00115	0.00018	46	0.00247	-0.00011	0.00000	-0.06106	0.00269	0.00034
4	0.00415	-0.00008	-0.00001	-0.06412	0.00109	0.00018	47	0.00250	-0.00008	0.00000	-0.06154	0.00205	0.00026
5	0.00413	-0.00010	-0.00001	-0.06393	0.00115	0.00018	48	0.00250	-0.00006	0.00000	-0.06174	0.00175	0.00022
6	0.00411	-0.00009	-0.00001	-0.06388	0.00115	0.00018	49	0.00247	-0.00009	0.00000	-0.06142	0.00256	0.00032
7	0.00424	-0.00011	-0.00002	-0.06460	0.00102	0.00016	50	0.00242	-0.00017	0.00000	-0.06042	0.00371	0.00046
8	0.00414	-0.00009	-0.00001	-0.06433	0.00114	0.00018	51	0.00248	-0.00007	0.00000	-0.06168	0.00196	0.00024
9	0.00424	-0.00011	-0.00002	-0.06490	0.00105	0.00017	52	0.00247	-0.00011	0.00000	-0.06138	0.00245	0.00031
10	0.00396	-0.00006	-0.00001	-0.06215	0.00099	0.00016	53	0.00243	-0.00015	0.00000	-0.06076	0.00344	0.00043
11	0.00433	-0.00007	-0.00001	-0.06620	0.00103	0.00016	54	0.00248	-0.00009	0.00000	-0.06161	0.00214	0.00027
12	0.00441	-0.00004	-0.00001	-0.06695	0.00081	0.00013	55	0.00248	-0.00008	0.00000	-0.06170	0.00214	0.00027
13	0.00445	-0.00003	0.00000	-0.06695	0.00064	0.00010	56	0.00250	-0.00006	0.00000	-0.06180	0.00165	0.00021
14	0.00446	-0.00002	0.00000	-0.06670	0.00046	0.00007	57	0.00245	-0.00015	0.00000	-0.06080	0.00318	0.00040
15	0.00422	-0.00007	-0.00001	-0.06578	0.00118	0.00019	58	0.00246	-0.00013	0.00000	-0.06103	0.00299	0.00037
16	0.00427	-0.00011	-0.00002	-0.06520	0.00111	0.00018	59	0.00246	-0.00013	0.00000	-0.06101	0.00289	0.00036
17	0.00419	-0.00012	-0.00002	-0.06492	0.00127	0.00020	60	0.00250	-0.00007	0.00000	-0.06172	0.00180	0.00023
18	0.00438	-0.00006	-0.00001	-0.06650	0.00091	0.00015	61	0.00251	-0.00004	0.00000	-0.06209	0.00127	0.00016
19	0.00435	-0.00006	-0.00001	-0.06618	0.00097	0.00016	62	0.00250	-0.00006	0.00000	-0.06199	0.00167	0.00021
20	0.00441	-0.00007	-0.00001	-0.06680	0.00095	0.00015	63	0.00089	-0.00002	-0.00001	-0.03380	0.00136	0.00046
21	0.00418	-0.00006	-0.00001	-0.06556	0.00115	0.00018	64	0.00089	-0.00002	-0.00001	-0.03382	0.00133	0.00045
22	0.00431	-0.00008	-0.00001	-0.06544	0.00102	0.00016	65	0.00089	-0.00002	-0.00001	-0.03387	0.00132	0.00045
23	0.00428	-0.00009	-0.00001	-0.06538	0.00110	0.00018	66	0.00089	-0.00002	0.00000	-0.03394	0.00100	0.00034
24	0.00438	-0.00011	-0.00002	-0.06609	0.00108	0.00017	67	0.00089	-0.00003	-0.00001	-0.03352	0.00197	0.00067
25	0.00435	-0.00005	-0.00001	-0.06626	0.00090	0.00014	68	0.00089	-0.00003	-0.00001	-0.03343	0.00230	0.00078
26	0.00437	-0.00001	0.00000	-0.06547	0.00044	0.00007	69	0.00088	-0.00004	-0.00001	-0.03293	0.00302	0.00102
27	0.00081	-0.00001	0.00000	-0.03009	0.00046	0.00013	70	0.00089	-0.00002	0.00000	-0.03387	0.00086	0.00029
28	0.00081	-0.00001	0.00000	-0.03014	0.00048	0.00014	71	0.00089	-0.00002	0.00000	-0.03394	0.00086	0.00029
29	0.00081	-0.00001	0.00000	-0.03009	0.00055	0.00016	72	0.00089	-0.00002	-0.00001	-0.03383	0.00118	0.00040
30	0.00082	-0.00001	0.00000	-0.03006	0.00070	0.00020	73	0.00089	-0.00002	-0.00001	-0.03384	0.00114	0.00038
31	0.00081	-0.00001	0.00000	-0.03022	0.00063	0.00018	74	0.00089	-0.00001	0.00000	-0.03390	0.00074	0.00025
32	0.00081	-0.00001	0.00000	-0.03008	0.00048	0.00014	75	0.00089	-0.00001	0.00000	-0.03392	0.00065	0.00022
33	0.00081	-0.00001	0.00000	-0.03008	0.00046	0.00013	76	0.00089	-0.00001	0.00000	-0.03397	0.00060	0.00020
34	0.00081	-0.00001	0.00000	-0.03008	0.00037	0.00011							
35	0.00081	0.00000	0.00000	-0.03003	0.00026	0.00007							
36	0.00081	-0.00001	0.00000	-0.03005	0.00092	0.00026							
37	0.00082	-0.00001	0.00000	-0.03011	0.00088	0.00025							
38	0.00081	-0.00001	0.00000	-0.03015	0.00079	0.00023							
39	0.00082	-0.00001	0.00000	-0.03010	0.00072	0.00021							
40	0.00082	-0.00001	0.00000	-0.03007	0.00077	0.00022							
41	0.00082	-0.00001	0.00000	-0.03008	0.00086	0.00025							
42	0.00082	-0.00001	0.00000	-0.03006	0.00087	0.00025							
43	0.00082	-0.00001	0.00000	-0.03001	0.00093	0.00027							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.6 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2005 and 2006 (Model 2; Ag Sector)

Province	2005			2006			Province	2005			2006		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.00254	0.00030	0.00006	-0.00286	0.00060	0.00012	44	-0.00237	0.00014	0.00008	-0.00179	0.00005	0.00003
2	-0.00251	0.00029	0.00006	-0.00293	0.00050	0.00010	45	-0.00239	0.00012	0.00007	-0.00179	0.00005	0.00003
3	-0.00276	0.00004	0.00001	-0.00340	0.00006	0.00001	46	-0.00240	0.00012	0.00006	-0.00180	0.00005	0.00003
4	-0.00276	0.00004	0.00001	-0.00340	0.00006	0.00001	47	-0.00242	0.00010	0.00005	-0.00180	0.00004	0.00002
5	-0.00275	0.00005	0.00001	-0.00340	0.00007	0.00001	48	-0.00243	0.00009	0.00005	-0.00180	0.00004	0.00002
6	-0.00275	0.00004	0.00001	-0.00339	0.00006	0.00001	49	-0.00241	0.00011	0.00006	-0.00180	0.00004	0.00003
7	-0.00276	0.00004	0.00001	-0.00338	0.00005	0.00001	50	-0.00237	0.00014	0.00008	-0.00180	0.00005	0.00003
8	-0.00275	0.00004	0.00001	-0.00339	0.00006	0.00001	51	-0.00242	0.00009	0.00005	-0.00180	0.00004	0.00002
9	-0.00276	0.00004	0.00001	-0.00338	0.00005	0.00001	52	-0.00241	0.00011	0.00006	-0.00180	0.00004	0.00003
10	-0.00275	0.00005	0.00001	-0.00339	0.00007	0.00001	53	-0.00239	0.00012	0.00007	-0.00179	0.00005	0.00003
11	-0.00276	0.00004	0.00001	-0.00339	0.00005	0.00001	54	-0.00242	0.00010	0.00005	-0.00180	0.00004	0.00002
12	-0.00277	0.00003	0.00001	-0.00337	0.00004	0.00001	55	-0.00241	0.00010	0.00006	-0.00180	0.00004	0.00002
13	-0.00277	0.00003	0.00001	-0.00336	0.00003	0.00001	56	-0.00243	0.00008	0.00005	-0.00180	0.00004	0.00002
14	-0.00278	0.00002	0.00000	-0.00334	0.00003	0.00001	57	-0.00239	0.00012	0.00007	-0.00180	0.00005	0.00003
15	-0.00276	0.00004	0.00001	-0.00339	0.00006	0.00001	58	-0.00240	0.00011	0.00006	-0.00180	0.00005	0.00003
16	-0.00276	0.00004	0.00001	-0.00338	0.00005	0.00001	59	-0.00240	0.00011	0.00006	-0.00180	0.00005	0.00003
17	-0.00277	0.00004	0.00001	-0.00340	0.00006	0.00001	60	-0.00243	0.00008	0.00005	-0.00180	0.00004	0.00002
18	-0.00277	0.00003	0.00001	-0.00334	0.00004	0.00001	61	-0.00244	0.00007	0.00004	-0.00180	0.00003	0.00002
19	-0.00276	0.00004	0.00001	-0.00338	0.00005	0.00001	62	-0.00243	0.00008	0.00005	-0.00180	0.00004	0.00002
20	-0.00276	0.00003	0.00001	-0.00338	0.00004	0.00001	63	-0.00260	0.00009	0.00001	-0.00207	0.00007	0.00002
21	-0.00276	0.00004	0.00001	-0.00340	0.00006	0.00001	64	-0.00260	0.00009	0.00001	-0.00207	0.00007	0.00002
22	-0.00277	0.00004	0.00001	-0.00340	0.00006	0.00001	65	-0.00260	0.00009	0.00001	-0.00207	0.00007	0.00002
23	-0.00277	0.00004	0.00001	-0.00340	0.00006	0.00001	66	-0.00262	0.00007	0.00001	-0.00207	0.00005	0.00002
24	-0.00280	0.00003	0.00001	-0.00340	0.00005	0.00001	67	-0.00255	0.00013	0.00002	-0.00206	0.00009	0.00003
25	-0.00276	0.00003	0.00001	-0.00338	0.00005	0.00001	68	-0.00253	0.00015	0.00002	-0.00206	0.00010	0.00003
26	-0.00276	0.00002	0.00001	-0.00334	0.00003	0.00001	69	-0.00248	0.00020	0.00003	-0.00204	0.00012	0.00003
27	-0.00299	0.00005	0.00000	-0.00331	0.00008	0.00001	70	-0.00263	0.00006	0.00001	-0.00208	0.00005	0.00001
28	-0.00298	0.00005	0.00000	-0.00330	0.00008	0.00001	71	-0.00263	0.00006	0.00001	-0.00208	0.00005	0.00001
29	-0.00297	0.00006	0.00000	-0.00329	0.00010	0.00001	72	-0.00261	0.00008	0.00001	-0.00208	0.00006	0.00002
30	-0.00295	0.00009	0.00000	-0.00326	0.00014	0.00002	73	-0.00261	0.00008	0.00001	-0.00208	0.00006	0.00002
31	-0.00295	0.00008	0.00000	-0.00328	0.00012	0.00002	74	-0.00264	0.00005	0.00001	-0.00208	0.00004	0.00001
32	-0.00298	0.00005	0.00000	-0.00330	0.00008	0.00001	75	-0.00264	0.00004	0.00001	-0.00208	0.00004	0.00001
33	-0.00298	0.00005	0.00000	-0.00330	0.00008	0.00001	76	-0.00265	0.00004	0.00000	-0.00208	0.00004	0.00001
34	-0.00300	0.00004	0.00000	-0.00332	0.00006	0.00001							
35	-0.00301	0.00002	0.00000	-0.00333	0.00004	0.00000							
36	-0.00289	0.00014	0.00001	-0.00321	0.00021	0.00003							
37	-0.00289	0.00014	0.00001	-0.00322	0.00020	0.00003							
38	-0.00292	0.00011	0.00000	-0.00325	0.00017	0.00002							
39	-0.00294	0.00010	0.00000	-0.00326	0.00015	0.00002							
40	-0.00293	0.00010	0.00000	-0.00324	0.00016	0.00002							
41	-0.00291	0.00012	0.00000	-0.00323	0.00018	0.00003							
42	-0.00290	0.00012	0.00000	-0.00322	0.00019	0.00003							
43	-0.00290	0.00013	0.00001	-0.00322	0.00020	0.00003							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.7 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2007 and 2008 (Model 2; Ag Sector)

Province	2007			2008			Province	2007			2008		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.00461	0.00021	-0.00070	0.00535	-0.00044	-0.00011	44	0.01260	-0.00050	-0.00010	0.01477	-0.00130	-0.00013
2	0.00454	0.00020	-0.00066	0.00538	-0.00040	-0.00010	45	0.01267	-0.00043	-0.00009	0.01501	-0.00093	-0.00009
3	0.00443	0.00003	-0.00009	0.00574	-0.00006	-0.00001	46	0.01271	-0.00040	-0.00008	0.01521	-0.00079	-0.00008
4	0.00443	0.00003	-0.00009	0.00574	-0.00006	-0.00001	47	0.01279	-0.00032	-0.00007	0.01540	-0.00052	-0.00005
5	0.00443	0.00003	-0.00009	0.00574	-0.00006	-0.00002	48	0.01282	-0.00028	-0.00006	0.01549	-0.00041	-0.00004
6	0.00443	0.00003	-0.00009	0.00572	-0.00006	-0.00001	49	0.01276	-0.00035	-0.00007	0.01531	-0.00066	-0.00006
7	0.00436	0.00003	-0.00009	0.00570	-0.00005	-0.00001	50	0.01263	-0.00047	-0.00010	0.01482	-0.00124	-0.00012
8	0.00439	0.00003	-0.00009	0.00572	-0.00006	-0.00001	51	0.01281	-0.00030	-0.00006	0.01544	-0.00047	-0.00005
9	0.00436	0.00003	-0.00009	0.00571	-0.00005	-0.00001	52	0.01277	-0.00034	-0.00007	0.01527	-0.00068	-0.00007
10	0.00446	0.00003	-0.00009	0.00573	-0.00006	-0.00002	53	0.01270	-0.00042	-0.00009	0.01497	-0.00101	-0.00010
11	0.00434	0.00003	-0.00008	0.00571	-0.00005	-0.00001	54	0.01281	-0.00031	-0.00006	0.01532	-0.00055	-0.00005
12	0.00425	0.00002	-0.00008	0.00568	-0.00004	-0.00001	55	0.01279	-0.00031	-0.00006	0.01537	-0.00058	-0.00006
13	0.00420	0.00002	-0.00007	0.00566	-0.00004	-0.00001	56	0.01286	-0.00026	-0.00005	0.01549	-0.00042	-0.00004
14	0.00416	0.00002	-0.00007	0.00564	-0.00003	-0.00001	57	0.01271	-0.00041	-0.00008	0.01503	-0.00093	-0.00009
15	0.00437	0.00003	-0.00009	0.00571	-0.00005	-0.00001	58	0.01274	-0.00039	-0.00008	0.01514	-0.00081	-0.00008
16	0.00437	0.00003	-0.00009	0.00569	-0.00005	-0.00001	59	0.01275	-0.00038	-0.00008	0.01520	-0.00084	-0.00008
17	0.00441	0.00003	-0.00009	0.00573	-0.00006	-0.00001	60	0.01284	-0.00027	-0.00006	0.01544	-0.00042	-0.00004
18	0.00425	0.00002	-0.00008	0.00564	-0.00004	-0.00001	61	0.01289	-0.00022	-0.00004	0.01557	-0.00026	-0.00003
19	0.00432	0.00002	-0.00008	0.00571	-0.00005	-0.00001	62	0.01286	-0.00027	-0.00005	0.01552	-0.00037	-0.00004
20	0.00430	0.00002	-0.00008	0.00569	-0.00005	-0.00001	63	0.00411	0.00012	-0.00019	0.00843	-0.00043	-0.00008
21	0.00438	0.00003	-0.00009	0.00573	-0.00005	-0.00001	64	0.00409	0.00012	-0.00019	0.00844	-0.00042	-0.00008
22	0.00436	0.00003	-0.00009	0.00573	-0.00005	-0.00001	65	0.00406	0.00012	-0.00018	0.00845	-0.00041	-0.00008
23	0.00439	0.00003	-0.00009	0.00574	-0.00006	-0.00001	66	0.00402	0.00011	-0.00017	0.00851	-0.00029	-0.00005
24	0.00436	0.00003	-0.00009	0.00574	-0.00005	-0.00001	67	0.00410	0.00014	-0.00021	0.00828	-0.00068	-0.00012
25	0.00430	0.00002	-0.00008	0.00571	-0.00005	-0.00001	68	0.00405	0.00014	-0.00022	0.00818	-0.00078	-0.00014
26	0.00417	0.00002	-0.00007	0.00567	-0.00004	-0.00001	69	0.00407	0.00016	-0.00024	0.00794	-0.00109	-0.00020
27	0.01233	-0.00020	-0.00004	0.00489	-0.00009	-0.00005	70	0.00408	0.00011	-0.00016	0.00855	-0.00025	-0.00005
28	0.01231	-0.00021	-0.00004	0.00489	-0.00010	-0.00006	71	0.00407	0.00011	-0.00016	0.00856	-0.00025	-0.00005
29	0.01227	-0.00026	-0.00005	0.00488	-0.00011	-0.00006	72	0.00411	0.00012	-0.00018	0.00849	-0.00037	-0.00007
30	0.01217	-0.00035	-0.00006	0.00486	-0.00013	-0.00008	73	0.00411	0.00012	-0.00018	0.00849	-0.00035	-0.00006
31	0.01222	-0.00030	-0.00005	0.00487	-0.00012	-0.00007	74	0.00405	0.00010	-0.00015	0.00858	-0.00020	-0.00004
32	0.01230	-0.00021	-0.00004	0.00488	-0.00010	-0.00006	75	0.00403	0.00010	-0.00015	0.00861	-0.00017	-0.00003
33	0.01232	-0.00020	-0.00004	0.00489	-0.00009	-0.00005	76	0.00400	0.00009	-0.00014	0.00859	-0.00015	-0.00003
34	0.01238	-0.00015	-0.00003	0.00490	-0.00008	-0.00004							
35	0.01250	-0.00010	-0.00002	0.00491	-0.00006	-0.00003							
36	0.01198	-0.00054	-0.00010	0.00484	-0.00017	-0.00010							
37	0.01199	-0.00053	-0.00009	0.00484	-0.00017	-0.00009							
38	0.01209	-0.00043	-0.00008	0.00485	-0.00015	-0.00008							
39	0.01214	-0.00038	-0.00007	0.00486	-0.00014	-0.00008							
40	0.01211	-0.00041	-0.00007	0.00485	-0.00015	-0.00008							
41	0.01206	-0.00047	-0.00008	0.00484	-0.00016	-0.00009							
42	0.01204	-0.00048	-0.00008	0.00484	-0.00016	-0.00009							
43	0.01202	-0.00051	-0.00009	0.00484	-0.00017	-0.00009							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.8 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2011 and 2012 (Model 2; Ag Sector)

Province	2011			2012			Province	2011			2012		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.00091	-0.00006	0.00011	0.02486	-0.00231	-0.00019	44	-0.00071	-0.00007	0.00000	0.00314	0.00027	-0.00049
2	-0.00091	-0.00005	0.00011	0.02509	-0.00199	-0.00016	45	-0.00071	-0.00007	0.00000	0.00309	0.00025	-0.00046
3	-0.00086	-0.00001	0.00002	0.02669	-0.00043	-0.00003	46	-0.00071	-0.00006	0.000004	0.00306	0.00025	-0.00045
4	-0.00086	-0.00001	0.00002	0.02676	-0.00045	-0.00004	47	-0.00070	-0.00006	0.000004	0.00303	0.00023	-0.00043
5	-0.00086	-0.00001	0.00002	0.02681	-0.00045	-0.00004	48	-0.00070	-0.00006	0.000004	0.00301	0.00023	-0.00042
6	-0.00087	-0.00001	0.00002	0.02688	-0.00046	-0.00004	49	-0.00070	-0.00006	0.000004	0.00303	0.00024	-0.00043
7	-0.00086	-0.00001	0.00002	0.02655	-0.00031	-0.00002	50	-0.00071	-0.00007	0.00000	0.00309	0.00026	-0.00047
8	-0.00087	-0.00001	0.00002	0.02671	-0.00037	-0.00003	51	-0.00070	-0.00006	0.000004	0.00303	0.00023	-0.00042
9	-0.00086	-0.00001	0.00002	0.02648	-0.00028	-0.00002	52	-0.00071	-0.00006	0.000004	0.00302	0.00024	-0.00043
10	-0.00086	-0.00001	0.00002	0.02670	-0.00042	-0.00003	53	-0.00071	-0.00007	0.000004	0.00307	0.00025	-0.00045
11	-0.00086	-0.00001	0.00002	0.02651	-0.00031	-0.00002	54	-0.00070	-0.00006	0.000004	0.00302	0.00023	-0.00042
12	-0.00086	-0.00001	0.00002	0.02636	-0.00022	-0.00002	55	-0.00071	-0.00006	0.000004	0.00302	0.00023	-0.00042
13	-0.00086	-0.00001	0.00002	0.02619	-0.00016	-0.00001	56	-0.00070	-0.00006	0.000004	0.00300	0.00023	-0.00041
14	-0.00086	-0.00001	0.00002	0.02606	-0.00012	-0.00001	57	-0.00071	-0.00006	0.000004	0.00304	0.00024	-0.00044
15	-0.00086	-0.00001	0.00002	0.02671	-0.00038	-0.00003	58	-0.00070	-0.00006	0.000004	0.00309	0.00025	-0.00045
16	-0.00086	-0.00001	0.00002	0.02662	-0.00033	-0.00003	59	-0.00071	-0.00006	0.000004	0.00303	0.00024	-0.00043
17	-0.00086	-0.00001	0.00002	0.02671	-0.00039	-0.00003	60	-0.00070	-0.00006	0.000004	0.00301	0.00023	-0.00041
18	-0.00086	-0.00001	0.00002	0.02659	-0.00025	-0.00002	61	-0.00070	-0.00006	0.000003	0.00300	0.00022	-0.00040
19	-0.00086	-0.00001	0.00002	0.02652	-0.00029	-0.00002	62	-0.00070	-0.00006	0.000004	0.00300	0.00023	-0.00041
20	-0.00086	-0.00001	0.00002	0.02640	-0.00024	-0.00002	63	-0.00466	0.00027	0.00007	0.02071	-0.00091	-0.00047
21	-0.00086	-0.00001	0.00002	0.02655	-0.00032	-0.00003	64	-0.00467	0.00027	0.00006	0.02071	-0.00093	-0.00047
22	-0.00086	-0.00001	0.00002	0.02655	-0.00033	-0.00003	65	-0.00469	0.00025	0.00006	0.02071	-0.00091	-0.00047
23	-0.00086	-0.00001	0.00002	0.02667	-0.00038	-0.00003	66	-0.00480	0.00015	0.00004	0.02089	-0.00068	-0.00035
24	-0.00086	-0.00001	0.00002	0.02654	-0.00032	-0.00003	67	-0.00439	0.00051	0.00013	0.02030	-0.00138	-0.00071
25	-0.00086	-0.00001	0.00002	0.02650	-0.00026	-0.00002	68	-0.00430	0.00060	0.00015	0.02010	-0.00158	-0.00081
26	-0.00086	-0.00001	0.00002	0.02609	-0.00013	-0.00001	69	-0.00389	0.00100	0.00024	0.01961	-0.00215	-0.00110
27	-0.00035	-0.00008	0.00001	0.03725	-0.00045	0.00000000	70	-0.00484	0.00013	0.00003	0.02100	-0.00056	-0.00029
28	-0.00035	-0.00008	0.00001	0.03720	-0.00051	-0.00000001	71	-0.00486	0.00014	0.00003	0.02098	-0.00056	-0.00029
29	-0.00035	-0.00008	0.00001	0.03709	-0.00069	-0.00000001	72	-0.00471	0.00022	0.00005	0.02080	-0.00080	-0.00041
30	-0.00035	-0.00009	0.00001	0.03673	-0.00118	-0.00000001	73	-0.00473	0.00021	0.00005	0.02083	-0.00077	-0.00039
31	-0.00035	-0.00009	0.00001	0.03694	-0.00088	-0.00000001	74	-0.00499	0.00010	0.00002	0.02107	-0.00048	-0.00024
32	-0.00035	-0.00008	0.00001	0.03720	-0.00048	-0.000000005	75	-0.00488	0.00007	0.00002	0.02111	-0.00041	-0.00021
33	-0.00035	-0.00008	0.00001	0.03728	-0.00046	-0.000000005	76	-0.00492	0.00006	0.00002	0.02115	-0.00037	-0.00019
34	-0.00035	-0.00008	0.00001	0.03741	-0.00027	-0.000000003							
35	-0.00034	-0.00008	0.00001	0.03746	-0.00014	-0.000000001							
36	-0.00036	-0.00009	0.00001	0.03527	-0.00309	-0.00000003							
37	-0.00036	-0.00009	0.00001	0.03507	-0.00341	-0.00000004							
38	-0.00035	-0.00009	0.00001	0.03625	-0.00177	-0.00000002							
39	-0.00035	-0.00009	0.00001	0.03653	-0.00140	-0.00000002							
40	-0.00035	-0.00009	0.00001	0.03644	-0.00156	-0.00000002							
41	-0.00036	-0.00009	0.00001	0.03610	-0.00195	-0.00000002							
42	-0.00036	-0.00009	0.00001	0.03600	-0.00210	-0.00000002							
43	-0.00036	-0.00009	0.00001	0.03596	-0.00218	-0.00000002							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.9 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2002 and 2004 (Model 3; Ag Sector)

Province	2002			2004			Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.17488	-0.08090	-0.01646	0.19816	-0.04996	-0.00743	44	0.17950	-0.01103	-0.00013	0.17426	-0.00953	-0.00162
2	0.20841	-0.05565	-0.01132	0.19830	-0.05142	-0.00765	45	0.17639	-0.01302	-0.00016	0.17877	-0.00521	-0.00088
3	0.24582	-0.00898	-0.00183	0.23707	-0.01032	-0.00153	46	0.18372	-0.00639	-0.00008	0.17906	-0.00339	-0.00058
4	0.24548	-0.00664	-0.00135	0.23816	-0.00681	-0.00101	47	0.18371	-0.00592	-0.00007	0.17824	-0.00376	-0.00064
5	0.24594	-0.00579	-0.00118	0.24094	-0.00355	-0.00053	48	0.18302	-0.00622	-0.00008	0.16941	-0.01228	-0.00208
6	0.24592	-0.00463	-0.00094	0.24273	-0.00156	-0.00023	49	0.18726	-0.00176	-0.00002	0.18106	-0.00203	-0.00034
7	0.25438	-0.00465	-0.00095	0.24435	-0.00213	-0.00032	50	0.18006	-0.01074	-0.00013	0.17606	-0.00745	-0.00126
8	0.24951	-0.00269	-0.00055	0.24290	-0.00306	-0.00046	51	0.18263	-0.00544	-0.00007	0.17553	-0.00658	-0.00111
9	0.25068	-0.00871	-0.00177	0.24595	-0.00181	-0.00027	52	0.18550	-0.00464	-0.00006	0.17766	-0.00501	-0.00085
10	0.23581	-0.00347	-0.00071	0.23107	-0.00609	-0.00091	53	0.17102	-0.01969	-0.00024	0.16771	-0.01603	-0.00272
11	0.25832	-0.00372	-0.00076	0.24346	-0.00909	-0.00135	54	0.18473	-0.00479	-0.00006	0.17500	-0.00745	-0.00126
12	0.26016	-0.00491	-0.00100	0.25096	-0.00358	-0.00053	55	0.18514	-0.00382	-0.00005	0.17670	-0.00599	-0.00102
13	0.26485	-0.00163	-0.00033	0.25141	-0.00250	-0.00037	56	0.18632	-0.00289	-0.00003	0.17336	-0.00820	-0.00139
14	0.26646	-0.00028	-0.00006	0.25099	-0.00131	-0.00019	57	0.17757	-0.01361	-0.00016	0.17510	-0.00800	-0.00136
15	0.25046	-0.00449	-0.00091	0.24601	-0.00554	-0.00082	58	0.18421	-0.00653	-0.00008	0.17682	-0.00638	-0.00108
16	0.25748	-0.00329	-0.00067	0.24553	-0.00356	-0.00053	59	0.18407	-0.00648	-0.00008	0.17664	-0.00625	-0.00106
17	0.25136	-0.00547	-0.00111	0.24673	-0.00193	-0.00029	60	0.18562	-0.00380	-0.00005	0.17747	-0.00432	-0.00073
18	0.26223	-0.00231	-0.00047	0.25224	-0.00096	-0.00014	61	0.18755	-0.00060	-0.00001	0.17934	-0.00201	-0.00034
19	0.25770	-0.00482	-0.00098	0.24682	-0.00545	-0.00081	62	0.18349	-0.00546	-0.00007	0.17779	-0.00438	-0.00074
20	0.26140	-0.00542	-0.00110	0.25194	-0.00260	-0.00039	63	0.07485	-0.00172	-0.00049	0.13126	-0.00472	-0.00134
21	0.24605	-0.00679	-0.00138	0.24617	-0.00441	-0.00066	64	0.07510	-0.00167	-0.00048	0.12858	-0.00735	-0.00208
22	0.25401	-0.00786	-0.00160	0.24315	-0.00653	-0.00097	65	0.07518	-0.00153	-0.00044	0.12987	-0.00624	-0.00177
23	0.25525	-0.00493	-0.00100	0.24701	-0.00270	-0.00040	66	0.07466	-0.00179	-0.00051	0.12621	-0.00893	-0.00253
24	0.26201	-0.00561	-0.00114	0.25070	-0.00161	-0.00024	67	0.07482	-0.00253	-0.00072	0.12704	-0.01021	-0.00289
25	0.25963	-0.00252	-0.00051	0.25007	-0.00221	-0.00033	68	0.07495	-0.00258	-0.00074	0.12739	-0.01080	-0.00305
26	0.26022	-0.00106	-0.00022	0.24674	-0.00084	-0.00013	69	0.07394	-0.00418	-0.00119	0.12978	-0.00927	-0.00262
27	0.06723	-0.00051	-0.00010	0.10653	-0.00186	-0.00053	70	0.07477	-0.00135	-0.00039	0.13096	-0.00334	-0.00095
28	0.06731	-0.00052	-0.00010	0.10659	-0.00204	-0.00058	71	0.07517	-0.00108	-0.00031	0.13188	-0.00272	-0.00077
29	0.06746	-0.00067	-0.00013	0.10679	-0.00192	-0.00055	72	0.07472	-0.00184	-0.00052	0.13024	-0.00517	-0.00146
30	0.06777	-0.00072	-0.00014	0.10671	-0.00241	-0.00068	73	0.07478	-0.00169	-0.00048	0.13145	-0.00380	-0.00108
31	0.06742	-0.00071	-0.00014	0.10703	-0.00242	-0.00069	74	0.07517	-0.00093	-0.00027	0.13249	-0.00146	-0.00041
32	0.06741	-0.00047	-0.00009	0.10680	-0.00163	-0.00046	75	0.07516	-0.00087	-0.00025	0.13232	-0.00139	-0.00039
33	0.06769	-0.00033	-0.00007	0.10693	-0.00139	-0.00039	76	0.07522	-0.00072	-0.00021	0.13289	-0.00079	-0.00022
34	0.06746	-0.00037	-0.00007	0.10710	-0.00095	-0.00027							
35	0.06721	-0.00022	-0.00004	0.10685	-0.00059	-0.00017							
36	0.06748	-0.00078	-0.00016	0.10666	-0.00320	-0.00091							
37	0.06755	-0.00099	-0.00020	0.10777	-0.00218	-0.00062							
38	0.06722	-0.00095	-0.00019	0.10563	-0.00413	-0.00117							
39	0.06747	-0.00093	-0.00019	0.10700	-0.00234	-0.00066							
40	0.06791	-0.00075	-0.00015	0.10599	-0.00342	-0.00097							
41	0.06797	-0.00082	-0.00016	0.10636	-0.00342	-0.00097							
42	0.06781	-0.00074	-0.00015	0.10677	-0.00293	-0.00083							
43	0.06763	-0.00109	-0.00022	0.10679	-0.00299	-0.00085							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.10 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Rice Prices in 2006, 2007 and 2011 (Model 3; Ag Sector)

Province	2006			2007			2011		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.26971	0.06839	0.01160	0.26478	-0.01990	-0.01941	0.01846	-0.00128	-0.00193
2	-0.30072	0.03442	0.00584	0.26530	-0.01540	-0.01502	0.01927	-0.00048	-0.00072
3	-0.32813	0.00989	0.00168	0.28093	-0.00379	-0.00369	0.01959	-0.00015	-0.00023
4	-0.32868	0.00870	0.00148	0.28155	-0.00279	-0.00272	0.01956	-0.00017	-0.00025
5	-0.33281	0.00547	0.00093	0.28086	-0.00395	-0.00385	0.01963	-0.00013	-0.00019
6	-0.33199	0.00532	0.00090	0.28329	-0.00113	-0.00110	0.01984	-0.00015	-0.00023
7	-0.32954	0.00545	0.00092	0.27801	-0.00192	-0.00187	0.01965	-0.00011	-0.00016
8	-0.33073	0.00601	0.00102	0.28021	-0.00205	-0.00200	0.01974	-0.00017	-0.00026
9	-0.33384	0.00131	0.00022	0.27955	-0.00048	-0.00047	0.01961	-0.00013	-0.00019
10	-0.32925	0.00796	0.00135	0.28366	-0.00249	-0.00243	0.01956	-0.00020	-0.00030
11	-0.32755	0.00786	0.00133	0.27013	-0.00859	-0.00837	0.01962	-0.00011	-0.00016
12	-0.32801	0.00406	0.00069	0.26961	-0.00342	-0.00334	0.01960	-0.00013	-0.00020
13	-0.32731	0.00357	0.00061	0.26865	-0.00167	-0.00163	0.01963	-0.00014	-0.00021
14	-0.32478	0.00378	0.00064	0.26644	-0.00087	-0.00085	0.01958	-0.00021	-0.00032
15	-0.33246	0.00378	0.00064	0.27921	-0.00135	-0.00132	0.01961	-0.00013	-0.00019
16	-0.33201	0.00334	0.00057	0.27783	-0.00312	-0.00304	0.01969	-0.00003	-0.00005
17	-0.33588	0.00208	0.00035	0.28169	-0.00182	-0.00178	0.01959	-0.00012	-0.00018
18	-0.32913	0.00079	0.00013	0.27269	-0.00046	-0.00045	0.01963	-0.00010	-0.00015
19	-0.32631	0.00832	0.00141	0.27589	-0.00141	-0.00137	0.01945	-0.00028	-0.00043
20	-0.33078	0.00295	0.00050	0.27497	-0.00143	-0.00140	0.01958	-0.00014	-0.00022
21	-0.33443	0.00274	0.00046	0.27979	-0.00143	-0.00139	0.01955	-0.00018	-0.00027
22	-0.32086	0.01615	0.00274	0.27737	-0.00301	-0.00293	0.01949	-0.00024	-0.00035
23	-0.33338	0.00441	0.00075	0.28059	-0.00151	-0.00147	0.01956	-0.00017	-0.00025
24	-0.33500	0.00210	0.00036	0.27940	-0.00056	-0.00055	0.01958	-0.00014	-0.00022
25	-0.33245	0.00216	0.00037	0.27388	-0.00227	-0.00222	0.01967	-0.00005	-0.00008
26	-0.32661	0.00220	0.00037	0.26723	-0.00111	-0.00108	0.01972	-0.00005	-0.00007
27	-0.20774	0.00572	0.00185	0.30550	-0.01236	-0.00449	0.00442	0.00089	-0.00012
28	-0.20873	0.00487	0.00158	0.31262	-0.00532	-0.00193	0.00443	0.00090	-0.00012
29	-0.20772	0.00601	0.00194	0.31293	-0.00496	-0.00180	0.00456	0.00103	-0.00014
30	-0.20372	0.01051	0.00340	0.30974	-0.00792	-0.00288	0.00448	0.00096	-0.00013
31	-0.20929	0.00497	0.00161	0.31019	-0.00753	-0.00273	0.00455	0.00103	-0.00014
32	-0.21064	0.00286	0.00092	0.31473	-0.00277	-0.00100	0.00436	0.00084	-0.00012
33	-0.21115	0.00217	0.00070	0.31211	-0.00567	-0.00206	0.00433	0.00080	-0.00011
34	-0.21072	0.00233	0.00075	0.30817	-0.00968	-0.00351	0.00440	0.00088	-0.00012
35	-0.21175	0.00035	0.00011	0.31916	-0.00041	-0.00015	0.00427	0.00074	-0.00010
36	-0.20334	0.01284	0.00416	0.30941	-0.00825	-0.00300	0.00475	0.00122	-0.00017
37	-0.20742	0.00861	0.00279	0.31291	-0.00478	-0.00173	0.00468	0.00116	-0.00016
38	-0.20521	0.01016	0.00329	0.30996	-0.00759	-0.00275	0.00465	0.00113	-0.00016
39	-0.20975	0.00478	0.00155	0.31460	-0.00294	-0.00107	0.00464	0.00111	-0.00015
40	-0.20555	0.00887	0.00287	0.31464	-0.00294	-0.00107	0.00457	0.00104	-0.00014
41	-0.20651	0.00853	0.00276	0.31296	-0.00482	-0.00175	0.00446	0.00093	-0.00013
42	-0.20800	0.00706	0.00229	0.30533	-0.01228	-0.00446	0.00459	0.00107	-0.00015
43	-0.21001	0.00542	0.00176	0.31140	-0.00658	-0.00239	0.00468	0.00115	-0.00016
44	0.00027	-0.00001	-0.00001	0.24336	-0.00260	-0.00283	0.01241	0.00082	-0.0000
45	0.00027	-0.00001	0.00000	0.24493	-0.00107	-0.00117	0.01240	0.00083	-0.0000
46	0.00027	-0.00001	0.00000	0.24489	-0.00129	-0.00140	0.01239	0.00076	-0.0000
47	0.00027	0.00000	0.00000	0.24507	-0.00110	-0.00120	0.01218	0.00056	-0.0000
48	0.00027	-0.00001	0.00000	0.24423	-0.00189	-0.00205	0.01192	0.00030	-0.0000
49	0.00027	0.00000	0.00000	0.24498	-0.00124	-0.00135	0.01212	0.00052	-0.0000
50	0.00027	-0.00001	0.00000	0.24450	-0.00155	-0.00169	0.01235	0.00074	-0.0000
51	0.00027	-0.00001	0.00000	0.24413	-0.00206	-0.00225	0.01205	0.00045	-0.0000
52	0.00027	-0.00001	0.00000	0.24396	-0.00216	-0.00235	0.01199	0.00036	-0.0000
53	0.00027	-0.00001	0.00000	0.24294	-0.00347	-0.00378	0.01221	0.00060	-0.0000
54	0.00026	-0.00001	-0.00001	0.24318	-0.00313	-0.00341	0.01195	0.00035	-0.0000
55	0.00027	-0.00001	0.00000	0.24270	-0.00336	-0.00366	0.01211	0.00047	-0.0000
56	0.00027	-0.00001	0.00000	0.24423	-0.00220	-0.00239	0.01205	0.00043	-0.0000
57	0.00027	-0.00001	-0.00001	0.24295	-0.00346	-0.00377	0.01238	0.00077	-0.0000
58	0.00027	-0.00001	0.00000	0.24536	-0.00104	-0.00113	0.01221	0.00062	-0.0000
59	0.00027	-0.00001	0.00000	0.24276	-0.00377	-0.00410	0.01220	0.00059	-0.0000
60	0.00027	0.00000	0.00000	0.24417	-0.00204	-0.00222	0.01205	0.00045	-0.0000
61	0.00027	0.00000	0.00000	0.24476	-0.00136	-0.00148	0.01190	0.00028	-0.0000
62	0.00027	-0.00001	0.00000	0.24314	-0.00337	-0.00367	0.01197	0.00035	-0.0000
63	0.00027	-0.00001	0.00000	0.15497	0.00101	-0.00619	0.01854	-0.00047	-0.0007
64	0.00027	-0.00001	0.00000	0.15420	0.00097	-0.00591	0.01761	-0.00140	-0.0020
65	0.00026	-0.00001	-0.00001	0.15429	0.00208	-0.01268	0.01869	-0.00034	-0.0005
66	0.00027	-0.00001	0.00000	0.15231	0.00114	-0.00698	0.01858	-0.00048	-0.0007
67	0.00027	-0.00001	-0.00001	0.15457	0.00159	-0.00971	0.01780	-0.00108	-0.0016
68	0.00027	-0.00001	-0.00001	0.15237	0.00134	-0.00819	0.01841	-0.00047	-0.0006
69	0.00027	-0.00001	0.00000	0.15272	0.00136	-0.00828	0.01778	-0.00104	-0.0015
70	0.00027	-0.00001	0.00000	0.15502	0.00122	-0.00743	0.01873	-0.00040	-0.0005
71	0.00027	0.00000	0.00000	0.15398	0.00088	-0.00540	0.01898	-0.00027	-0.0004
72	0.00027	-0.00001	0.00000	0.15546	0.00120	-0.00732	0.01836	-0.00065	-0.0009
73	0.00027	-0.00001	0.00000	0.15525	0.00088	-0.00539	0.01855	-0.00048	-0.0007
74	0.00027	0.00000	0.00000	0.15314	0.00035	-0.00211	0.01934	-0.00025	-0.0003
75	0.00027	0.00000	0.00000	0.15269	0.00049	-0.00297	0.01884	-0.00026	-0.0003
76	0.00027	0.00000	0.00000	0.15178	0.00053	-0.00322	0.01898	-0.00021	-0.0003

Note: Pjk is a percentage change in probability of migrating to a province due to a change in rice prices of that province; Pjl is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in rice prices of another province in the different region.

Table E.11 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2002 and 2004 (Model 3; Ag Sector)

Province	2002			2004			Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.00234	-0.00108	-0.00022	-0.05670	0.01429	0.00213	44	0.00240	-0.00015	0.00000	-0.04986	0.00273	0.00046
2	0.00279	-0.00074	-0.00015	-0.05674	0.01471	0.00219	45	0.00236	-0.00017	0.00000	-0.05115	0.00149	0.00025
3	0.00329	-0.00012	-0.00002	-0.06783	0.00295	0.00044	46	0.00246	-0.00009	0.00000	-0.05123	0.00097	0.00016
4	0.00328	-0.00009	-0.00002	-0.06814	0.00195	0.00029	47	0.00246	-0.00008	0.00000	-0.05100	0.00108	0.00018
5	0.00329	-0.00008	-0.00002	-0.06894	0.00102	0.00015	48	0.00245	-0.00008	0.00000	-0.04847	0.00351	0.00060
6	0.00329	-0.00006	-0.00001	-0.06945	0.00045	0.00007	49	0.00250	-0.00002	0.00000	-0.05181	0.00058	0.00010
7	0.00340	-0.00006	-0.00001	-0.06992	0.00061	0.00009	50	0.00241	-0.00014	0.00000	-0.05038	0.00213	0.00036
8	0.00334	-0.00004	-0.00001	-0.06950	0.00088	0.00013	51	0.00244	-0.00007	0.00000	-0.05023	0.00188	0.00032
9	0.00335	-0.00012	-0.00002	-0.07037	0.00052	0.00008	52	0.00248	-0.00006	0.00000	-0.05083	0.00143	0.00024
10	0.00315	-0.00005	-0.00001	-0.06612	0.00174	0.00026	53	0.00229	-0.00026	0.00000	-0.04799	0.00459	0.00078
11	0.00345	-0.00005	-0.00001	-0.06966	0.00260	0.00039	54	0.00247	-0.00006	0.00000	-0.05007	0.00213	0.00036
12	0.00348	-0.00007	-0.00001	-0.07181	0.00102	0.00015	55	0.00247	-0.00005	0.00000	-0.05056	0.00171	0.00029
13	0.00354	-0.00002	0.00000	-0.07194	0.00072	0.00011	56	0.00249	-0.00004	0.00000	-0.04960	0.00235	0.00040
14	0.00356	0.00000	0.00000	-0.07181	0.00037	0.00006	57	0.00237	-0.00018	0.00000	-0.05010	0.00229	0.00039
15	0.00335	-0.00006	-0.00001	-0.07039	0.00159	0.00024	58	0.00246	-0.00009	0.00000	-0.05059	0.00183	0.00031
16	0.00344	-0.00004	-0.00001	-0.07025	0.00102	0.00015	59	0.00246	-0.00009	0.00000	-0.05054	0.00179	0.00030
17	0.00336	-0.00007	-0.00001	-0.07060	0.00055	0.00008	60	0.00248	-0.00005	0.00000	-0.05078	0.00124	0.00021
18	0.00351	-0.00003	-0.00001	-0.07217	0.00027	0.00004	61	0.00251	-0.00001	0.00000	-0.05131	0.00057	0.00010
19	0.00344	-0.00006	-0.00001	-0.07062	0.00156	0.00023	62	0.00245	-0.00007	0.00000	-0.05087	0.00125	0.00021
20	0.00349	-0.00007	-0.00001	-0.07209	0.00074	0.00011	63	0.00100	-0.00002	-0.00001	-0.03756	0.00135	0.00038
21	0.00329	-0.00009	-0.00002	-0.07044	0.00126	0.00019	64	0.00100	-0.00002	-0.00001	-0.03679	0.00210	0.00059
22	0.00340	-0.00011	-0.00002	-0.06957	0.00187	0.00028	65	0.00100	-0.00002	-0.00001	-0.03716	0.00179	0.00051
23	0.00341	-0.00007	-0.00001	-0.07068	0.00077	0.00012	66	0.00100	-0.00002	-0.00001	-0.03611	0.00256	0.00072
24	0.00350	-0.00008	-0.00002	-0.07173	0.00046	0.00007	67	0.00100	-0.00003	-0.00001	-0.03635	0.00292	0.00083
25	0.00347	-0.00003	-0.00001	-0.07155	0.00063	0.00009	68	0.00100	-0.00003	-0.00001	-0.03645	0.00309	0.00087
26	0.00348	-0.00001	0.00000	-0.07060	0.00024	0.00004	69	0.00099	-0.00006	-0.00002	-0.03713	0.00265	0.00075
27	0.00090	-0.00001	0.00000	-0.03048	0.00053	0.00015	70	0.00100	-0.00002	-0.00001	-0.03747	0.00096	0.00027
28	0.00090	-0.00001	0.00000	-0.03050	0.00058	0.00017	71	0.00100	-0.00001	0.00000	-0.03773	0.00078	0.00022
29	0.00090	-0.00001	0.00000	-0.03056	0.00055	0.00016	72	0.00100	-0.00002	-0.00001	-0.03727	0.00148	0.00042
30	0.00091	-0.00001	0.00000	-0.03053	0.00069	0.00020	73	0.00100	-0.00002	-0.00001	-0.03761	0.00109	0.00031
31	0.00090	-0.00001	0.00000	-0.03062	0.00069	0.00020	74	0.00100	-0.00001	0.00000	-0.03791	0.00042	0.00012
32	0.00090	-0.00001	0.00000	-0.03056	0.00047	0.00013	75	0.00100	-0.00001	0.00000	-0.03786	0.00040	0.00011
33	0.00090	0.00000	0.00000	-0.03060	0.00040	0.00011	76	0.00101	-0.00001	0.00000	-0.03802	0.00023	0.00006
34	0.00090	0.00000	0.00000	-0.03064	0.00027	0.00008							
35	0.00090	0.00000	0.00000	-0.03057	0.00017	0.00005							
36	0.00090	-0.00001	0.00000	-0.03052	0.00091	0.00026							
37	0.00090	-0.00001	0.00000	-0.03084	0.00062	0.00018							
38	0.00090	-0.00001	0.00000	-0.03022	0.00118	0.00034							
39	0.00090	-0.00001	0.00000	-0.03062	0.00067	0.00019							
40	0.00091	-0.00001	0.00000	-0.03033	0.00098	0.00028							
41	0.00091	-0.00001	0.00000	-0.03043	0.00098	0.00028							
42	0.00091	-0.00001	0.00000	-0.03055	0.00084	0.00024							
43	0.00090	-0.00001	0.00000	-0.03056	0.00086	0.00024							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.12 The % Changes in Probabilities of Migration to a Province due to a 1% Change in AG GPPs in 2006, 2007 and 2011 (Model 3; Ag Sector)

Province	2006			2007			2011		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.00043	-0.00011	-0.00002	0.00327	-0.00025	-0.00024	0.00492	-0.00034	-0.00051
2	0.00048	-0.00005	-0.00001	0.00328	-0.00019	-0.00019	0.00513	-0.00013	-0.00019
3	0.00052	-0.00002	0.00000	0.00347	-0.00005	-0.00005	0.00522	-0.00004	-0.00006
4	0.00052	-0.00001	0.00000	0.00348	-0.00003	-0.00003	0.00521	-0.00004	-0.00007
5	0.00053	-0.00001	0.00000	0.00347	-0.00005	-0.00005	0.00523	-0.00003	-0.00005
6	0.00053	-0.00001	0.00000	0.00350	-0.00001	-0.00001	0.00529	-0.00004	-0.00006
7	0.00052	-0.00001	0.00000	0.00344	-0.00002	-0.00002	0.00524	-0.00003	-0.00004
8	0.00052	-0.00001	0.00000	0.00347	-0.00003	-0.00002	0.00526	-0.00005	-0.00007
9	0.00053	0.00000	0.00000	0.00346	-0.00001	-0.00001	0.00523	-0.00003	-0.00005
10	0.00052	-0.00001	0.00000	0.00351	-0.00003	-0.00003	0.00521	-0.00005	-0.00008
11	0.00052	-0.00001	0.00000	0.00334	-0.00011	-0.00010	0.00523	-0.00003	-0.00004
12	0.00052	-0.00001	0.00000	0.00333	-0.00004	-0.00004	0.00522	-0.00004	-0.00005
13	0.00052	-0.00001	0.00000	0.00332	-0.00002	-0.00002	0.00523	-0.00004	-0.00005
14	0.00052	-0.00001	0.00000	0.00329	-0.00001	-0.00001	0.00522	-0.00006	-0.00009
15	0.00053	-0.00001	0.00000	0.00345	-0.00002	-0.00002	0.00523	-0.00003	-0.00005
16	0.00053	-0.00001	0.00000	0.00344	-0.00004	-0.00004	0.00525	-0.00001	-0.00001
17	0.00053	0.00000	0.00000	0.00348	-0.00002	-0.00002	0.00522	-0.00003	-0.00005
18	0.00052	0.00000	0.00000	0.00337	-0.00001	-0.00001	0.00523	-0.00003	-0.00004
19	0.00052	-0.00001	0.00000	0.00341	-0.00002	-0.00002	0.00518	-0.00008	-0.00011
20	0.00052	0.00000	0.00000	0.00340	-0.00002	-0.00002	0.00522	-0.00004	-0.00006
21	0.00053	0.00000	0.00000	0.00346	-0.00002	-0.00002	0.00521	-0.00005	-0.00007
22	0.00051	-0.00003	0.00000	0.00343	-0.00004	-0.00004	0.00519	-0.00006	-0.00009
23	0.00053	-0.00001	0.00000	0.00347	-0.00002	-0.00002	0.00521	-0.00004	-0.00007
24	0.00053	0.00000	0.00000	0.00345	-0.00001	-0.00001	0.00522	-0.00004	-0.00006
25	0.00053	0.00000	0.00000	0.00339	-0.00003	-0.00003	0.00524	-0.00001	-0.00002
26	0.00052	0.00000	0.00000	0.00330	-0.00001	-0.00001	0.00526	-0.00001	-0.00002
27	0.00033	-0.00001	0.00000	0.00378	-0.00015	-0.00006	0.00118	0.00024	-0.00003
28	0.00033	-0.00001	0.00000	0.00387	-0.00007	-0.00002	0.00118	0.00024	-0.00003
29	0.00033	-0.00001	0.00000	0.00387	-0.00006	-0.00002	0.00122	0.00028	-0.00004
30	0.00032	-0.00002	-0.00001	0.00383	-0.00010	-0.00004	0.00119	0.00026	-0.00004
31	0.00033	-0.00001	0.00000	0.00384	-0.00009	-0.00003	0.00121	0.00027	-0.00004
32	0.00033	0.00000	0.00000	0.00389	-0.00003	-0.00001	0.00116	0.00022	-0.00003
33	0.00033	0.00000	0.00000	0.00386	-0.00007	-0.00003	0.00115	0.00021	-0.00003
34	0.00033	0.00000	0.00000	0.00381	-0.00012	-0.00004	0.00117	0.00023	-0.00003
35	0.00034	0.00000	0.00000	0.00395	-0.00001	0.00000	0.00114	0.00020	-0.00003
36	0.00032	-0.00002	-0.00001	0.00383	-0.00010	-0.00004	0.00127	0.00033	-0.00004
37	0.00033	-0.00001	0.00000	0.00387	-0.00006	-0.00002	0.00125	0.00031	-0.00004
38	0.00033	-0.00002	-0.00001	0.00383	-0.00009	-0.00003	0.00124	0.00030	-0.00004
39	0.00033	-0.00001	0.00000	0.00389	-0.00004	-0.00001	0.00124	0.00030	-0.00004
40	0.00033	-0.00001	0.00000	0.00389	-0.00004	-0.00001	0.00122	0.00028	-0.00004
41	0.00033	-0.00001	0.00000	0.00387	-0.00006	-0.00002	0.00119	0.00025	-0.00003
42	0.00033	-0.00001	0.00000	0.00378	-0.00015	-0.00006	0.00122	0.00028	-0.00004
43	0.00033	-0.00001	0.00000	0.00385	-0.00008	-0.00003	0.00125	0.00031	-0.00004

Province	2006			2007			2011		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs	Pjk	Pjl	Prs
44	0.00027	-0.00001	-0.00001	0.00301	-0.00003	-0.00003	0.00331	0.00022	-0.0000
45	0.00027	-0.00001	0.00000	0.00303	-0.00001	-0.00001	0.00330	0.00022	-0.0000
46	0.00027	-0.00001	0.00000	0.00303	-0.00002	-0.00002	0.00330	0.00020	-0.0000
47	0.00027	0.00000	0.00000	0.00303	-0.00001	-0.00001	0.00325	0.00015	-0.0000
48	0.00027	-0.00001	0.00000	0.00302	-0.00002	-0.00003	0.00318	0.00008	-0.0000
49	0.00027	0.00000	0.00000	0.00303	-0.00002	-0.00002	0.00323	0.00014	-0.0000
50	0.00027	-0.00001	0.00000	0.00302	-0.00002	-0.00002	0.00329	0.00020	-0.0000
51	0.00027	-0.00001	0.00000	0.00302	-0.00003	-0.00003	0.00321	0.00012	-0.0000
52	0.00027	-0.00001	0.00000	0.00302	-0.00003	-0.00003	0.00320	0.00010	-0.0000
53	0.00027	-0.00001	0.00000	0.00300	-0.00004	-0.00005	0.00325	0.00016	-0.0000
54	0.00026	-0.00001	-0.00001	0.00301	-0.00004	-0.00004	0.00318	0.00009	-0.0000
55	0.00027	-0.00001	0.00000	0.00300	-0.00004	-0.00005	0.00323	0.00013	-0.0000
56	0.00027	-0.00001	0.00000	0.00302	-0.00003	-0.00003	0.00321	0.00011	-0.0000
57	0.00027	-0.00001	-0.00001	0.00300	-0.00004	-0.00005	0.00330	0.00020	-0.0000
58	0.00027	-0.00001	0.00000	0.00303	-0.00001	-0.00001	0.00325	0.00016	-0.0000
59	0.00027	-0.00001	0.00000	0.00300	-0.00005	-0.00005	0.00325	0.00016	-0.0000
60	0.00027	0.00000	0.00000	0.00302	-0.00003	-0.00003	0.00321	0.00012	-0.0000
61	0.00027	0.00000	0.00000	0.00303	-0.00002	-0.00002	0.00317	0.00008	-0.0000
62	0.00027	-0.00001	0.00000	0.00301	-0.00004	-0.00005	0.00319	0.00009	-0.0000
63	0.00027	-0.00001	0.00000	0.00192	0.00001	-0.00008	0.00494	-0.00013	-0.0001
64	0.00027	-0.00001	0.00000	0.00191	0.00001	-0.00007	0.00469	-0.00037	-0.0005
65	0.00026	-0.00001	-0.00001	0.00191	0.00003	-0.00016	0.00498	-0.00009	-0.0001
66	0.00027	-0.00001	0.00000	0.00188	0.00001	-0.00009	0.00495	-0.00013	-0.0001
67	0.00027	-0.00001	-0.00001	0.00191	0.00002	-0.00012	0.00474	-0.00029	-0.0004
68	0.00027	-0.00001	-0.00001	0.00188	0.00002	-0.00010	0.00491	-0.00012	-0.0001
69	0.00027	-0.00001	0.00000	0.00189	0.00002	-0.00010	0.00474	-0.00028	-0.0004
70	0.00027	-0.00001	0.00000	0.00192	0.00002	-0.00009	0.00499	-0.00011	-0.0001
71	0.00027	0.00000	0.00000	0.00190	0.00001	-0.00007	0.00506	-0.00007	-0.0001
72	0.00027	-0.00001	0.00000	0.00192	0.00001	-0.00009	0.00489	-0.00017	-0.0002
73	0.00027	-0.00001	0.00000	0.00192	0.00001	-0.00007	0.00494	-0.00013	-0.0001
74	0.00027	0.00000	0.00000	0.00189	0.00000	-0.00003	0.00515	-0.00007	-0.0001
75	0.00027	0.00000	0.00000	0.00189	0.00001	-0.00004	0.00502	-0.00007	-0.0001
76	0.00027	0.00000	0.00000	0.00188	0.00001	-0.00004	0.00506	-0.00006	-0.0000

Note: Pjk is a percentage change in probability of migrating to a province due to a change in AG GPPs of that province; Pjl is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in AG GPPs of another province in the different region.

Table E.13 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2002 and 2004 (Model 2; Ag Sector)

Province	2002			2004			Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	12.75099	-4.91903	-0.68968	2.99069	-0.81795	-0.13118	44	10.02467	-0.60268	-0.00627	3.48870	-0.21450	-0.02683
2	13.11819	-5.12435	-0.71847	3.13563	-0.69757	-0.11188	45	10.07887	-0.48558	-0.00505	3.51994	-0.18696	-0.02338
3	17.24973	-0.35228	-0.04939	3.73116	-0.06614	-0.01061	46	10.16538	-0.43834	-0.00456	3.52100	-0.15516	-0.01940
4	17.08980	-0.32746	-0.04591	3.69741	-0.06292	-0.01009	47	10.26458	-0.31215	-0.00325	3.54870	-0.11832	-0.01480
5	16.99339	-0.39664	-0.05561	3.68644	-0.06649	-0.01066	48	10.29799	-0.25707	-0.00268	3.55994	-0.10079	-0.01260
6	16.92716	-0.38188	-0.05354	3.68370	-0.06613	-0.01061	49	10.15240	-0.39046	-0.00406	3.54168	-0.14738	-0.01843
7	17.45328	-0.44138	-0.06188	3.72501	-0.05856	-0.00939	50	9.96269	-0.67952	-0.00707	3.48380	-0.21383	-0.02674
8	17.04027	-0.38251	-0.05363	3.70972	-0.06575	-0.01055	51	10.21740	-0.27290	-0.00284	3.55650	-0.11289	-0.01412
9	17.45514	-0.46460	-0.06514	3.74253	-0.06044	-0.00969	52	10.17058	-0.43523	-0.00453	3.53954	-0.14108	-0.01764
10	16.30102	-0.22913	-0.03213	3.58352	-0.05689	-0.00912	53	10.00142	-0.63600	-0.00662	3.50376	-0.19826	-0.02480
11	17.81857	-0.28344	-0.03974	3.81743	-0.05920	-0.00949	54	10.21913	-0.35182	-0.00366	3.55256	-0.12360	-0.01546
12	18.14083	-0.17110	-0.02399	3.86057	-0.04659	-0.00747	55	10.19852	-0.34128	-0.00355	3.55762	-0.12339	-0.01543
13	18.29428	-0.11508	-0.01614	3.86084	-0.03667	-0.00588	56	10.29511	-0.25855	-0.00269	3.56344	-0.09487	-0.01186
14	18.36282	-0.06414	-0.00899	3.84617	-0.02650	-0.00425	57	10.06279	-0.60101	-0.00625	3.50565	-0.18353	-0.02295
15	17.34466	-0.26773	-0.03754	3.79334	-0.06796	-0.01090	58	10.10698	-0.53222	-0.00554	3.51904	-0.17225	-0.02154
16	17.57412	-0.44024	-0.06172	3.75960	-0.06398	-0.01026	59	10.10462	-0.52372	-0.00545	3.51818	-0.16675	-0.02085
17	17.24566	-0.49663	-0.06963	3.74349	-0.07351	-0.01179	60	10.27953	-0.28618	-0.00298	3.55914	-0.10380	-0.01298
18	18.02105	-0.25401	-0.03561	3.83441	-0.05219	-0.00837	61	10.32344	-0.17156	-0.00179	3.58041	-0.07345	-0.00919
19	17.87885	-0.25647	-0.03596	3.81629	-0.05595	-0.00897	62	10.29650	-0.24269	-0.00253	3.57435	-0.09627	-0.01204
20	18.15796	-0.27479	-0.03853	3.85218	-0.05490	-0.00881	63	3.65463	-0.09023	-0.02604	1.94921	-0.07829	-0.02642
21	17.20743	-0.25926	-0.03635	3.78037	-0.06606	-0.01059	64	3.66370	-0.09027	-0.02605	1.95010	-0.07660	-0.02585
22	17.74352	-0.34763	-0.04874	3.77361	-0.05894	-0.00945	65	3.66223	-0.08919	-0.02574	1.95323	-0.07629	-0.02575
23	17.60975	-0.36431	-0.05108	3.76983	-0.06319	-0.01013	66	3.66771	-0.07111	-0.02052	1.95734	-0.05776	-0.01949
24	18.03688	-0.45127	-0.06327	3.81101	-0.06204	-0.00995	67	3.65542	-0.12702	-0.03665	1.93266	-0.11375	-0.03839
25	17.90194	-0.20829	-0.02920	3.82077	-0.05172	-0.00830	68	3.64917	-0.14244	-0.04110	1.92759	-0.13284	-0.04483
26	17.99680	-0.05338	-0.00748	3.77500	-0.02532	-0.00406	69	3.63673	-0.18355	-0.05296	1.89914	-0.17417	-0.05878
27	3.33410	-0.02692	-0.00491	1.73537	-0.02629	-0.00750	70	3.66064	-0.06192	-0.01787	1.95310	-0.04934	-0.01665
28	3.33693	-0.02829	-0.00516	1.73788	-0.02789	-0.00796	71	3.66640	-0.06246	-0.01802	1.95702	-0.04986	-0.01683
29	3.34796	-0.03247	-0.00592	1.73528	-0.03173	-0.00906	72	3.66220	-0.08160	-0.02355	1.95101	-0.06809	-0.02298
30	3.35745	-0.04067	-0.00742	1.73339	-0.04024	-0.01148	73	3.66112	-0.07890	-0.02277	1.95110	-0.06568	-0.02216
31	3.34428	-0.03580	-0.00653	1.74238	-0.03655	-0.01043	74	3.66728	-0.05448	-0.01572	1.95478	-0.04243	-0.01432
32	3.33921	-0.02862	-0.00522	1.73455	-0.02784	-0.00794	75	3.66925	-0.04890	-0.01411	1.95608	-0.03746	-0.01264
33	3.34707	-0.02773	-0.00506	1.73425	-0.02653	-0.00757	76	3.66860	-0.04512	-0.01302	1.95869	-0.03453	-0.01165
34	3.34257	-0.02304	-0.00421	1.73465	-0.02162	-0.00617							
35	3.32922	-0.01616	-0.00295	1.73152	-0.01489	-0.00425							
36	3.33794	-0.04855	-0.00886	1.73280	-0.05283	-0.01507							
37	3.35345	-0.04717	-0.00861	1.73619	-0.05101	-0.01456							
38	3.33970	-0.04302	-0.00785	1.73828	-0.04575	-0.01306							
39	3.35287	-0.04083	-0.00745	1.73586	-0.04148	-0.01184							
40	3.36165	-0.04472	-0.00816	1.73376	-0.04468	-0.01275							
41	3.36375	-0.04898	-0.00894	1.73443	-0.04982	-0.01422							
42	3.35276	-0.04830	-0.00881	1.73310	-0.04993	-0.01425							
43	3.35759	-0.05216	-0.00952	1.73072	-0.05367	-0.01532							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Table E.14 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2005 and 2006 (Model 2; Ag Sector)

Province	2005			2006		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.37738	-0.04402	-0.00913	1.19884	-0.25313	-0.05095
2	0.37374	-0.04256	-0.00883	1.22905	-0.21022	-0.04231
3	0.41070	-0.00647	-0.00134	1.42510	-0.02654	-0.00534
4	0.41025	-0.00657	-0.00136	1.42238	-0.02653	-0.00534
5	0.40971	-0.00673	-0.00140	1.42501	-0.02774	-0.00558
6	0.40949	-0.00668	-0.00139	1.42173	-0.02685	-0.00540
7	0.41091	-0.00585	-0.00121	1.41611	-0.02251	-0.00453
8	0.40980	-0.00637	-0.00132	1.42077	-0.02534	-0.00510
9	0.41139	-0.00572	-0.00119	1.41696	-0.02235	-0.00450
10	0.40976	-0.00698	-0.00145	1.41988	-0.02827	-0.00569
11	0.41057	-0.00550	-0.00114	1.41962	-0.02083	-0.00419
12	0.41182	-0.00449	-0.00093	1.41032	-0.01578	-0.00318
13	0.41232	-0.00391	-0.00081	1.40761	-0.01334	-0.00269
14	0.41304	-0.00326	-0.00068	1.40033	-0.01070	-0.00215
15	0.41003	-0.00600	-0.00124	1.42060	-0.02337	-0.00470
16	0.41018	-0.00589	-0.00122	1.41743	-0.02276	-0.00458
17	0.41227	-0.00623	-0.00129	1.42480	-0.02657	-0.00535
18	0.41269	-0.00467	-0.00097	1.40053	-0.01632	-0.00328
19	0.41095	-0.00528	-0.00110	1.41691	-0.02018	-0.00406
20	0.41111	-0.00495	-0.00103	1.41460	-0.01859	-0.00374
21	0.41107	-0.00586	-0.00122	1.42434	-0.02365	-0.00476
22	0.41265	-0.00564	-0.00117	1.42406	-0.02324	-0.00468
23	0.41231	-0.00591	-0.00123	1.42602	-0.02462	-0.00495
24	0.41654	-0.00519	-0.00108	1.42503	-0.02266	-0.00456
25	0.41139	-0.00502	-0.00104	1.41773	-0.01924	-0.00387
26	0.41084	-0.00363	-0.00075	1.39987	-0.01222	-0.00246
27	0.44418	-0.00727	-0.00029	1.38537	-0.03232	-0.00445
28	0.44302	-0.00795	-0.00031	1.38380	-0.03481	-0.00479
29	0.44169	-0.00950	-0.00037	1.37801	-0.04143	-0.00571
30	0.43834	-0.01310	-0.00052	1.36569	-0.05714	-0.00787
31	0.43966	-0.01122	-0.00044	1.37396	-0.04905	-0.00676
32	0.44312	-0.00797	-0.00031	1.38289	-0.03501	-0.00482
33	0.44375	-0.00741	-0.00029	1.38432	-0.03246	-0.00447
34	0.44632	-0.00537	-0.00021	1.39072	-0.02424	-0.00334
35	0.44812	-0.00347	-0.00014	1.39368	-0.01502	-0.00207
36	0.42979	-0.02058	-0.00081	1.34676	-0.08897	-0.01225
37	0.42985	-0.02035	-0.00080	1.34935	-0.08540	-0.01176
38	0.43439	-0.01627	-0.00064	1.36004	-0.07038	-0.00969
39	0.43706	-0.01416	-0.00056	1.36369	-0.06107	-0.00841
40	0.43561	-0.01542	-0.00061	1.35802	-0.06601	-0.00909
41	0.43242	-0.01795	-0.00071	1.35155	-0.07660	-0.01055
42	0.43202	-0.01832	-0.00072	1.35056	-0.07774	-0.01071
43	0.43117	-0.01908	-0.00075	1.34773	-0.08307	-0.01144

Province	2005			2006		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs
44	0.35299	-0.02112	-0.01187	0.75063	-0.02214	-0.01262
45	0.35566	-0.01837	-0.01033	0.75165	-0.02044	-0.01165
46	0.35654	-0.01717	-0.00965	0.75368	-0.01969	-0.01122
47	0.35951	-0.01431	-0.00805	0.75443	-0.01763	-0.01005
48	0.36186	-0.01271	-0.00714	0.75338	-0.01636	-0.00933
49	0.35790	-0.01573	-0.00884	0.75425	-0.01872	-0.01067
50	0.35335	-0.02059	-0.01157	0.75212	-0.02217	-0.01264
51	0.36051	-0.01359	-0.00764	0.75414	-0.01703	-0.00971
52	0.35851	-0.01563	-0.00878	0.75252	-0.01869	-0.01065
53	0.35569	-0.01845	-0.01037	0.75176	-0.02082	-0.01187
54	0.35973	-0.01431	-0.00805	0.75396	-0.01780	-0.01015
55	0.35874	-0.01504	-0.00846	0.75391	-0.01819	-0.01037
56	0.36154	-0.01255	-0.00705	0.75485	-0.01641	-0.00936
57	0.35573	-0.01799	-0.01011	0.75303	-0.02039	-0.01162
58	0.35685	-0.01703	-0.00957	0.75318	-0.01967	-0.01121
59	0.35669	-0.01690	-0.00950	0.75422	-0.01974	-0.01125
60	0.36185	-0.01262	-0.00709	0.75307	-0.01624	-0.00926
61	0.36358	-0.01052	-0.00591	0.75555	-0.01454	-0.00829
62	0.36183	-0.01221	-0.00686	0.75544	-0.01594	-0.00909
63	0.38626	-0.01324	-0.00171	0.86690	-0.02809	-0.00797
64	0.38645	-0.01301	-0.00168	0.86770	-0.02789	-0.00791
65	0.38659	-0.01286	-0.00166	0.86704	-0.02745	-0.00779
66	0.38980	-0.00974	-0.00126	0.86897	-0.02260	-0.00641
67	0.37949	-0.01951	-0.00252	0.86340	-0.03694	-0.01048
68	0.37645	-0.02227	-0.00288	0.86131	-0.04027	-0.01143
69	0.36892	-0.02955	-0.00382	0.85601	-0.04916	-0.01395
70	0.39136	-0.00834	-0.00108	0.87092	-0.02053	-0.00583
71	0.39128	-0.00836	-0.00108	0.87051	-0.02055	-0.00583
72	0.38782	-0.01161	-0.00150	0.86938	-0.02595	-0.00736
73	0.38818	-0.01120	-0.00145	0.86954	-0.02527	-0.00717
74	0.39272	-0.00707	-0.00092	0.87180	-0.01834	-0.00520
75	0.39358	-0.00619	-0.00080	0.87326	-0.01679	-0.00477
76	0.39448	-0.00556	-0.00072	0.87235	-0.01551	-0.00440

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Table E.15 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2007 and 2008 (Model 2; Ag Sector)

Province	2007			2008			Province	2007			2008		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	0.03638	0.00164	-0.00548	-0.02431	0.00200	0.00051	44	0.09937	-0.00393	-0.00080	-0.06711	0.00589	0.00057
2	0.03581	0.00155	-0.00517	-0.02442	0.00181	0.00046	45	0.09994	-0.00338	-0.00069	-0.06817	0.00421	0.00041
3	0.03496	0.00022	-0.00072	-0.02607	0.00027	0.00007	46	0.10028	-0.00312	-0.00064	-0.06910	0.00359	0.00035
4	0.03492	0.00022	-0.00072	-0.02605	0.00027	0.00007	47	0.10086	-0.00254	-0.00052	-0.06996	0.00237	0.00023
5	0.03497	0.00022	-0.00073	-0.02606	0.00027	0.00007	48	0.10113	-0.00225	-0.00046	-0.07036	0.00188	0.00018
6	0.03493	0.00022	-0.00072	-0.02598	0.00027	0.00007	49	0.10065	-0.00277	-0.00057	-0.06956	0.00299	0.00029
7	0.03436	0.00020	-0.00068	-0.02591	0.00024	0.00006	50	0.09961	-0.00373	-0.00076	-0.06732	0.00564	0.00055
8	0.03466	0.00021	-0.00070	-0.02597	0.00026	0.00006	51	0.10104	-0.00237	-0.00048	-0.07013	0.00212	0.00021
9	0.03437	0.00020	-0.00067	-0.02592	0.00024	0.00006	52	0.10070	-0.00267	-0.00055	-0.06934	0.00309	0.00030
10	0.03514	0.00022	-0.00074	-0.02604	0.00028	0.00007	53	0.10015	-0.00334	-0.00068	-0.06799	0.00460	0.00045
11	0.03421	0.00020	-0.00066	-0.02594	0.00023	0.00006	54	0.10103	-0.00243	-0.00050	-0.06958	0.00252	0.00025
12	0.03350	0.00018	-0.00060	-0.02579	0.00019	0.00005	55	0.10087	-0.00248	-0.00051	-0.06981	0.00265	0.00026
13	0.03316	0.00017	-0.00056	-0.02571	0.00017	0.00004	56	0.10142	-0.00209	-0.00043	-0.07038	0.00193	0.00019
14	0.03278	0.00016	-0.00052	-0.02564	0.00015	0.00004	57	0.10025	-0.00324	-0.00066	-0.06827	0.00422	0.00041
15	0.03444	0.00021	-0.00069	-0.02595	0.00024	0.00006	58	0.10045	-0.00305	-0.00062	-0.06875	0.00368	0.00036
16	0.03449	0.00021	-0.00068	-0.02587	0.00024	0.00006	59	0.10055	-0.00300	-0.00061	-0.06905	0.00380	0.00037
17	0.03481	0.00021	-0.00071	-0.02603	0.00026	0.00007	60	0.10125	-0.00216	-0.00044	-0.07015	0.00190	0.00019
18	0.03352	0.00018	-0.00061	-0.02563	0.00020	0.00005	61	0.10166	-0.00171	-0.00035	-0.07072	0.00118	0.00012
19	0.03404	0.00020	-0.00065	-0.02593	0.00023	0.00006	62	0.10145	-0.00209	-0.00043	-0.07051	0.00169	0.00016
20	0.03392	0.00019	-0.00064	-0.02587	0.00022	0.00005	63	0.03238	0.00098	-0.00149	-0.03829	0.00194	0.00035
21	0.03452	0.00020	-0.00068	-0.02602	0.00024	0.00006	64	0.03222	0.00097	-0.00148	-0.03835	0.00191	0.00035
22	0.03442	0.00020	-0.00068	-0.02602	0.00024	0.00006	65	0.03200	0.00096	-0.00146	-0.03838	0.00188	0.00034
23	0.03464	0.00021	-0.00070	-0.02607	0.00025	0.00006	66	0.03170	0.00087	-0.00132	-0.03867	0.00134	0.00024
24	0.03437	0.00020	-0.00068	-0.02605	0.00024	0.00006	67	0.03230	0.00110	-0.00167	-0.03759	0.00309	0.00056
25	0.03389	0.00019	-0.00064	-0.02595	0.00022	0.00006	68	0.03193	0.00112	-0.00171	-0.03717	0.00353	0.00064
26	0.03291	0.00017	-0.00055	-0.02575	0.00017	0.00004	69	0.03210	0.00123	-0.00188	-0.03608	0.00495	0.00090
27	0.09723	-0.00156	-0.00028	-0.02220	0.00043	0.00024	70	0.03221	0.00085	-0.00129	-0.03884	0.00112	0.00021
28	0.09713	-0.00169	-0.00030	-0.02219	0.00045	0.00025	71	0.03207	0.00084	-0.00128	-0.03888	0.00114	0.00021
29	0.09678	-0.00201	-0.00036	-0.02214	0.00050	0.00028	72	0.03241	0.00095	-0.00144	-0.03855	0.00168	0.00031
30	0.09595	-0.00278	-0.00049	-0.02207	0.00061	0.00034	73	0.03242	0.00093	-0.00142	-0.03857	0.00160	0.00029
31	0.09639	-0.00235	-0.00042	-0.02213	0.00055	0.00031	74	0.03196	0.00080	-0.00121	-0.03897	0.00093	0.00017
32	0.09699	-0.00169	-0.00030	-0.02216	0.00045	0.00025	75	0.03180	0.00076	-0.00115	-0.03909	0.00079	0.00014
33	0.09719	-0.00157	-0.00028	-0.02220	0.00043	0.00024	76	0.03157	0.00073	-0.00111	-0.03903	0.00069	0.00013
34	0.09762	-0.00116	-0.00021	-0.02224	0.00036	0.00020							
35	0.09856	-0.00076	-0.00013	-0.02229	0.00027	0.00015							
36	0.09448	-0.00425	-0.00075	-0.02197	0.00078	0.00044							
37	0.09454	-0.00419	-0.00075	-0.02199	0.00076	0.00043							
38	0.09533	-0.00337	-0.00060	-0.02204	0.00068	0.00038							
39	0.09571	-0.00298	-0.00053	-0.02207	0.00063	0.00036							
40	0.09549	-0.00322	-0.00057	-0.02203	0.00067	0.00037							
41	0.09508	-0.00368	-0.00065	-0.02199	0.00073	0.00041							
42	0.09494	-0.00377	-0.00067	-0.02199	0.00073	0.00041							
43	0.09481	-0.00401	-0.00071	-0.02197	0.00077	0.00043							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Table E.16 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2011 and 2012 (Model 2; Ag Sector)

Province	2011			2012			Province	2011			2012		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs		Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.29880	-0.01853	0.03762	3.06380	-0.28456	-0.02286	44	-0.23365	-0.02297	0.00144	0.38658	0.03296	-0.05988
2	-0.29827	-0.01793	0.03639	3.09167	-0.24518	-0.01969	45	-0.23192	-0.02168	0.00136	0.38073	0.03127	-0.05681
3	-0.28345	-0.00324	0.00657	3.28824	-0.05246	-0.00421	46	-0.23237	-0.02102	0.00131	0.37739	0.03039	-0.05521
4	-0.28336	-0.00323	0.00657	3.29746	-0.05513	-0.00443	47	-0.23110	-0.01992	0.00125	0.37275	0.02895	-0.05259
5	-0.28374	-0.00323	0.00657	3.30318	-0.05593	-0.00449	48	-0.23057	-0.01925	0.00120	0.37148	0.02842	-0.05163
6	-0.28705	-0.00323	0.00655	3.31162	-0.05615	-0.00451	49	-0.23111	-0.02028	0.00127	0.37306	0.02920	-0.05305
7	-0.28355	-0.00305	0.00619	3.27198	-0.03791	-0.00305	50	-0.23341	-0.02237	0.00140	0.38067	0.03159	-0.05739
8	-0.28577	-0.00315	0.00640	3.29116	-0.04588	-0.00369	51	-0.23045	-0.01949	0.00122	0.37307	0.02877	-0.05227
9	-0.28321	-0.00300	0.00609	3.26309	-0.03414	-0.00274	52	-0.23205	-0.02066	0.00129	0.37273	0.02907	-0.05281
10	-0.28366	-0.00322	0.00653	3.28963	-0.05224	-0.00420	53	-0.23263	-0.02151	0.00134	0.37790	0.03057	-0.05553
11	-0.28307	-0.00303	0.00615	3.26659	-0.03813	-0.00306	54	-0.23111	-0.02027	0.00127	0.37234	0.02866	-0.05207
12	-0.28298	-0.00284	0.00576	3.24752	-0.02664	-0.00214	55	-0.23191	-0.02042	0.00128	0.37181	0.02880	-0.05231
13	-0.28330	-0.00270	0.00548	3.22737	-0.01965	-0.00158	56	-0.23095	-0.01956	0.00122	0.36977	0.02782	-0.05054
14	-0.28355	-0.00255	0.00517	3.21083	-0.01463	-0.00118	57	-0.23228	-0.02115	0.00132	0.37482	0.02991	-0.05434
15	-0.28333	-0.00311	0.00632	3.29060	-0.04670	-0.00375	58	-0.23147	-0.02079	0.00130	0.38084	0.03079	-0.05594
16	-0.28302	-0.00306	0.00622	3.28041	-0.04092	-0.00329	59	-0.23180	-0.02071	0.00130	0.37320	0.02936	-0.05333
17	-0.28306	-0.00315	0.00639	3.29116	-0.04800	-0.00386	60	-0.23021	-0.01931	0.00121	0.37095	0.02809	-0.05103
18	-0.28300	-0.00286	0.00581	3.27621	-0.03035	-0.00244	61	-0.22950	-0.01826	0.00114	0.36941	0.02721	-0.04943
19	-0.28319	-0.00308	0.00626	3.26792	-0.03515	-0.00282	62	-0.23041	-0.01906	0.00119	0.36940	0.02780	-0.05051
20	-0.28309	-0.00301	0.00611	3.25340	-0.02971	-0.00239	63	-1.53178	0.09034	0.02198	2.55156	-0.11259	-0.05762
21	-0.28314	-0.00308	0.00626	3.27091	-0.03947	-0.00317	64	-1.53483	0.08741	0.02127	2.55193	-0.11428	-0.05849
22	-0.28320	-0.00316	0.00642	3.27184	-0.04072	-0.00327	65	-1.53985	0.08348	0.02031	2.55188	-0.11261	-0.05763
23	-0.28318	-0.00319	0.00648	3.28620	-0.04711	-0.00378	66	-1.57602	0.05014	0.01220	2.57352	-0.08409	-0.04304
24	-0.28315	-0.00313	0.00636	3.27036	-0.03902	-0.00313	67	-1.44156	0.16894	0.04111	2.50077	-0.17037	-0.08720
25	-0.28306	-0.00303	0.00616	3.26559	-0.03253	-0.00261	68	-1.41193	0.19829	0.04825	2.47678	-0.19458	-0.09959
26	-0.28334	-0.00274	0.00557	3.21483	-0.01620	-0.00130	69	-1.27740	0.32826	0.07988	2.41662	-0.26465	-0.13545
27	-0.11452	-0.02721	0.00298	4.59017	-0.05537	-0.0000006	70	-1.58931	0.04241	0.01032	2.58696	-0.06910	-0.03536
28	-0.11472	-0.02740	0.00300	4.58368	-0.06230	-0.0000007	71	-1.59748	0.04472	0.01088	2.58545	-0.06899	-0.03531
29	-0.11514	-0.02784	0.00305	4.56961	-0.08468	-0.0000009	72	-1.54773	0.07371	0.01794	2.56250	-0.09830	-0.05031
30	-0.11596	-0.02868	0.00314	4.52535	-0.14519	-0.0000016	73	-1.55371	0.06973	0.01697	2.56680	-0.09460	-0.04842
31	-0.11551	-0.02823	0.00309	4.55191	-0.10837	-0.0000012	74	-1.63973	0.03143	0.00765	2.59588	-0.05873	-0.03006
32	-0.11467	-0.02737	0.00300	4.58339	-0.05893	-0.0000006	75	-1.60462	0.02457	0.00598	2.60148	-0.05074	-0.02597
33	-0.11450	-0.02721	0.00298	4.59391	-0.05668	-0.0000006	76	-1.61676	0.02041	0.00497	2.60597	-0.04602	-0.02355
34	-0.11367	-0.02637	0.00289	4.60968	-0.03361	-0.0000004							
35	-0.11285	-0.02551	0.00280	4.61561	-0.01695	-0.0000002							
36	-0.11735	-0.03009	0.00330	4.34550	-0.38117	-0.0000041							
37	-0.11737	-0.03012	0.00330	4.32078	-0.41983	-0.0000046							
38	-0.11665	-0.02938	0.00322	4.46715	-0.21818	-0.0000024							
39	-0.11630	-0.02906	0.00319	4.50173	-0.17292	-0.0000019							
40	-0.11641	-0.02914	0.00319	4.49050	-0.19281	-0.0000021							
41	-0.11677	-0.02949	0.00323	4.44852	-0.24039	-0.0000026							
42	-0.11688	-0.02960	0.00325	4.43556	-0.25897	-0.0000028							
43	-0.11695	-0.02968	0.00325	4.43110	-0.26845	-0.0000029							

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Table E.17 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2002 and 2004 (Model 3; Ag Sector)

Province	2002			2004		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	9.61638	-4.44885	-0.90527	3.26952	-0.82427	-0.12265
2	11.46057	-3.06039	-0.62274	3.27183	-0.84835	-0.12624
3	13.51751	-0.49359	-0.10044	3.91142	-0.17020	-0.02533
4	13.49889	-0.36515	-0.07430	3.92944	-0.11243	-0.01673
5	13.52407	-0.31829	-0.06477	3.97527	-0.05864	-0.00873
6	13.52305	-0.25484	-0.05186	4.00479	-0.02578	-0.00384
7	13.98822	-0.25583	-0.05206	4.03165	-0.03520	-0.00524
8	13.72027	-0.14816	-0.03015	4.00765	-0.05049	-0.00751
9	13.78493	-0.47908	-0.09748	4.05789	-0.02981	-0.00444
10	12.96692	-0.19098	-0.03886	3.81251	-0.10046	-0.01495
11	14.20476	-0.20434	-0.04158	4.01687	-0.15000	-0.02232
12	14.30625	-0.26994	-0.05493	4.14063	-0.05906	-0.00879
13	14.56385	-0.08990	-0.01829	4.14808	-0.04124	-0.00614
14	14.65232	-0.01543	-0.00314	4.14105	-0.02157	-0.00321
15	13.77271	-0.24666	-0.05019	4.05892	-0.09148	-0.01361
16	14.15863	-0.18069	-0.03677	4.05105	-0.05881	-0.00875
17	13.82199	-0.30077	-0.06120	4.07085	-0.03192	-0.00475
18	14.42009	-0.12675	-0.02579	4.16173	-0.01585	-0.00236
19	14.17074	-0.26487	-0.05390	4.07231	-0.08985	-0.01337
20	14.37443	-0.29794	-0.06063	4.15676	-0.04285	-0.00638
21	13.53026	-0.37312	-0.07592	4.06159	-0.07282	-0.01084
22	13.96802	-0.43243	-0.08799	4.01175	-0.10773	-0.01603
23	14.03634	-0.27090	-0.05512	4.07543	-0.04457	-0.00663
24	14.40790	-0.30856	-0.06279	4.13641	-0.02662	-0.00396
25	14.27688	-0.13875	-0.02823	4.12589	-0.03654	-0.00544
26	14.30964	-0.05821	-0.01184	4.07096	-0.01389	-0.00207
27	3.69702	-0.02804	-0.00563	1.75757	-0.03063	-0.00868
28	3.70117	-0.02854	-0.00573	1.75866	-0.03372	-0.00956
29	3.70967	-0.03690	-0.00741	1.76190	-0.03174	-0.00900
30	3.72660	-0.03958	-0.00794	1.76063	-0.03973	-0.01126
31	3.70728	-0.03889	-0.00781	1.76585	-0.03989	-0.01131
32	3.70697	-0.02564	-0.00515	1.76210	-0.02685	-0.00761
33	3.72205	-0.01826	-0.00367	1.76433	-0.02298	-0.00651
34	3.70980	-0.02035	-0.00408	1.76698	-0.01575	-0.00447
35	3.69571	-0.01201	-0.00241	1.76295	-0.00978	-0.00277
36	3.71062	-0.04265	-0.00856	1.75980	-0.05274	-0.01495
37	3.71439	-0.05455	-0.01095	1.77819	-0.03594	-0.01019
38	3.69661	-0.05250	-0.01054	1.74273	-0.06819	-0.01933
39	3.70991	-0.05136	-0.01031	1.76547	-0.03865	-0.01096
40	3.73410	-0.04121	-0.00827	1.74881	-0.05642	-0.01599
41	3.73754	-0.04483	-0.00900	1.75478	-0.05636	-0.01598
42	3.72878	-0.04065	-0.00816	1.76161	-0.04829	-0.01369
43	3.71914	-0.05992	-0.01203	1.76192	-0.04937	-0.01400
44	9.87042	-0.60677	-0.00733	2.87511	-0.15731	-0.02666
45	9.69935	-0.71582	-0.00865	2.94952	-0.08593	-0.01456
46	10.10259	-0.35131	-0.00425	2.95428	-0.05599	-0.00949
47	10.10193	-0.32536	-0.00393	2.94078	-0.06200	-0.01051
48	10.06396	-0.34196	-0.00413	2.79507	-0.20257	-0.03433
49	10.29726	-0.09664	-0.00117	2.98740	-0.03342	-0.00566
50	9.90145	-0.59040	-0.00714	2.90491	-0.12294	-0.02083
51	10.04289	-0.29920	-0.00362	2.89618	-0.10855	-0.01840
52	10.20063	-0.25532	-0.00309	2.93121	-0.08271	-0.01402
53	9.40433	-1.08279	-0.01309	2.76702	-0.26442	-0.04481
54	10.15828	-0.26331	-0.00318	2.88735	-0.12292	-0.02083
55	10.18086	-0.21001	-0.00254	2.91535	-0.09888	-0.01676
56	10.24540	-0.15915	-0.00192	2.86033	-0.13533	-0.02293
57	9.76458	-0.74854	-0.00905	2.88899	-0.13194	-0.02236
58	10.12981	-0.35907	-0.00434	2.91733	-0.10533	-0.01785
59	10.12185	-0.35632	-0.00431	2.91442	-0.10304	-0.01746
60	10.20735	-0.20907	-0.00253	2.92816	-0.07128	-0.01208
61	10.31345	-0.03325	-0.00040	2.95890	-0.03311	-0.00561
62	10.08997	-0.30030	-0.00363	2.93345	-0.07229	-0.01225
63	4.11618	-0.09479	-0.02706	2.16560	-0.07793	-0.02203
64	4.12962	-0.09158	-0.02614	2.12141	-0.12124	-0.03428
65	4.13398	-0.08436	-0.02408	2.14277	-0.10301	-0.02913
66	4.10571	-0.09846	-0.02811	2.08242	-0.14739	-0.04167
67	4.11428	-0.13893	-0.03966	2.09603	-0.16843	-0.04762
68	4.12151	-0.14202	-0.04054	2.10184	-0.17813	-0.05037
69	4.06585	-0.22991	-0.06563	2.14131	-0.15292	-0.04324
70	4.11141	-0.07448	-0.02126	2.16066	-0.05515	-0.01559
71	4.13338	-0.05959	-0.01701	2.17583	-0.04488	-0.01269
72	4.10882	-0.10095	-0.02882	2.14888	-0.08536	-0.02413
73	4.11239	-0.09313	-0.02659	2.16890	-0.06277	-0.01775
74	4.13363	-0.05135	-0.01466	2.18597	-0.02405	-0.00680
75	4.13286	-0.04807	-0.01372	2.18309	-0.02287	-0.00647
76	4.13639	-0.03957	-0.01130	2.19259	-0.01302	-0.00368

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Table E.18 The % Changes in Probabilities of Migration to a Province due to a 1% Change in Non-ag Wage of Migrants in 2006, 2007 and 2011 (Model 3; Ag Sector)

Province	2006			2007			2011		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs	Pjk	Pjl	Prs
1	-0.17919	0.04544	0.00770	0.02582	-0.00194	-0.00189	1.61648	-0.11237	-0.16892
2	-0.19979	0.02287	0.00388	0.02587	-0.00150	-0.00146	1.68718	-0.04216	-0.06337
3	-0.21801	0.00657	0.00111	0.02740	-0.00037	-0.00036	1.71518	-0.01335	-0.02007
4	-0.21837	0.00578	0.00098	0.02746	-0.00027	-0.00027	1.71326	-0.01474	-0.02216
5	-0.22112	0.00363	0.00062	0.02739	-0.00038	-0.00038	1.71934	-0.01098	-0.01650
6	-0.22057	0.00353	0.00060	0.02763	-0.00011	-0.00011	1.73770	-0.01311	-0.01971
7	-0.21894	0.00362	0.00061	0.02711	-0.00019	-0.00018	1.72108	-0.00924	-0.01389
8	-0.21973	0.00399	0.00068	0.02733	-0.00020	-0.00019	1.72846	-0.01494	-0.02246
9	-0.22180	0.00087	0.00015	0.02726	-0.00005	-0.00005	1.71743	-0.01107	-0.01664
10	-0.21875	0.00529	0.00090	0.02766	-0.00024	-0.00024	1.71256	-0.01737	-0.02611
11	-0.21762	0.00522	0.00089	0.02635	-0.00084	-0.00082	1.71799	-0.00948	-0.01425
12	-0.21793	0.00270	0.00046	0.02629	-0.00033	-0.00033	1.71636	-0.01176	-0.01768
13	-0.21746	0.00237	0.00040	0.02620	-0.00016	-0.00016	1.71899	-0.01195	-0.01796
14	-0.21578	0.00251	0.00043	0.02599	-0.00009	-0.00008	1.71464	-0.01876	-0.02819
15	-0.22088	0.00251	0.00043	0.02723	-0.00013	-0.00013	1.71750	-0.01108	-0.01666
16	-0.22058	0.00222	0.00038	0.02710	-0.00030	-0.00030	1.72395	-0.00297	-0.00447
17	-0.22315	0.00139	0.00023	0.02747	-0.00018	-0.00017	1.71601	-0.01067	-0.01604
18	-0.21867	0.00052	0.00009	0.02659	-0.00004	-0.00004	1.71944	-0.00861	-0.01295
19	-0.21680	0.00553	0.00094	0.02691	-0.00014	-0.00013	1.70299	-0.02488	-0.03740
20	-0.21977	0.00196	0.00033	0.02682	-0.00014	-0.00014	1.71507	-0.01265	-0.01901
21	-0.22219	0.00182	0.00031	0.02729	-0.00014	-0.00014	1.71172	-0.01584	-0.02381
22	-0.21318	0.01073	0.00182	0.02705	-0.00029	-0.00029	1.70681	-0.02065	-0.03104
23	-0.22150	0.00293	0.00050	0.02737	-0.00015	-0.00014	1.71263	-0.01455	-0.02187
24	-0.22257	0.00139	0.00024	0.02725	-0.00005	-0.00005	1.71466	-0.01269	-0.01908
25	-0.22088	0.00143	0.00024	0.02671	-0.00022	-0.00022	1.72270	-0.00470	-0.00706
26	-0.21700	0.00146	0.00025	0.02606	-0.00011	-0.00011	1.72687	-0.00405	-0.00609
27	-0.13802	0.00380	0.00123	0.02979	-0.00121	-0.00044	0.38712	0.07834	-0.01076
28	-0.13868	0.00323	0.00105	0.03049	-0.00052	-0.00019	0.38775	0.07892	-0.01084
29	-0.13801	0.00399	0.00129	0.03052	-0.00048	-0.00018	0.39936	0.09064	-0.01245
30	-0.13535	0.00698	0.00226	0.03021	-0.00077	-0.00028	0.39255	0.08388	-0.01152
31	-0.13905	0.00330	0.00107	0.03025	-0.00073	-0.00027	0.39856	0.08987	-0.01234
32	-0.13994	0.00190	0.00061	0.03069	-0.00027	-0.00010	0.38212	0.07338	-0.01008
33	-0.14029	0.00144	0.00047	0.03044	-0.00055	-0.00020	0.37904	0.07031	-0.00966
34	-0.14000	0.00155	0.00050	0.03005	-0.00094	-0.00034	0.38545	0.07672	-0.01054
35	-0.14069	0.00023	0.00008	0.03113	-0.00004	-0.00001	0.37354	0.06467	-0.00888
36	-0.13510	0.00853	0.00276	0.03018	-0.00080	-0.00029	0.41576	0.10717	-0.01472
37	-0.13781	0.00572	0.00185	0.03052	-0.00047	-0.00017	0.40982	0.10127	-0.01391
38	-0.13634	0.00675	0.00219	0.03023	-0.00074	-0.00027	0.40756	0.09892	-0.01359
39	-0.13935	0.00317	0.00103	0.03068	-0.00029	-0.00010	0.40599	0.09747	-0.01339
40	-0.13656	0.00589	0.00191	0.03069	-0.00029	-0.00010	0.39998	0.09135	-0.01255
41	-0.13720	0.00567	0.00183	0.03052	-0.00047	-0.00017	0.39036	0.08171	-0.01122
42	-0.13819	0.00469	0.00152	0.02978	-0.00120	-0.00043	0.40225	0.09359	-0.01286
43	-0.13953	0.00360	0.00117	0.03037	-0.00064	-0.00023	0.40974	0.10108	-0.01388

Province	2006			2007			2011		
	Pjk	Pjl	Prs	Pjk	Pjl	Prs	Pjk	Pjl	Prs
44	-0.11125	0.00366	0.00219	0.02373	-0.00025	-0.00028	1.08664	0.07176	-0.0064
45	-0.11265	0.00216	0.00129	0.02389	-0.00010	-0.00011	1.08579	0.07305	-0.0065
46	-0.11196	0.00304	0.00182	0.02388	-0.00013	-0.00014	1.08461	0.06651	-0.0059
47	-0.11335	0.00145	0.00086	0.02390	-0.00011	-0.00012	1.06640	0.04909	-0.0044
48	-0.11190	0.00256	0.00153	0.02382	-0.00018	-0.00020	1.04393	0.02600	-0.0023
49	-0.11315	0.00179	0.00107	0.02389	-0.00012	-0.00013	1.06141	0.04581	-0.0041
50	-0.11209	0.00304	0.00182	0.02385	-0.00015	-0.00016	1.08176	0.06514	-0.0058
51	-0.11196	0.00271	0.00162	0.02381	-0.00020	-0.00022	1.05554	0.03934	-0.0035
52	-0.11202	0.00265	0.00158	0.02379	-0.00021	-0.00023	1.05007	0.03176	-0.0028
53	-0.11207	0.00281	0.00168	0.02369	-0.00034	-0.00037	1.06942	0.05242	-0.0047
54	-0.11095	0.00380	0.00227	0.02372	-0.00031	-0.00033	1.04655	0.03091	-0.0027
55	-0.11239	0.00242	0.00145	0.02367	-0.00033	-0.00036	1.06021	0.04145	-0.0037
56	-0.11186	0.00282	0.00168	0.02382	-0.00021	-0.00023	1.05569	0.03741	-0.0033
57	-0.11108	0.00393	0.00235	0.02369	-0.00034	-0.00037	1.08438	0.06734	-0.0060
58	-0.11253	0.00239	0.00143	0.02393	-0.00010	-0.00011	1.06903	0.05416	-0.0048
59	-0.11198	0.00310	0.00185	0.02368	-0.00037	-0.00040	1.06854	0.05173	-0.0046
60	-0.11234	0.00206	0.00123	0.02381	-0.00020	-0.00022	1.05493	0.03902	-0.0035
61	-0.11322	0.00129	0.00077	0.02387	-0.00013	-0.00014	1.04235	0.02480	-0.0022
62	-0.11201	0.00269	0.00161	0.02371	-0.00033	-0.00036	1.04858	0.03048	-0.0027
63	-0.11293	0.00239	0.00114	0.01511	0.00010	-0.00060	1.62397	-0.04125	-0.0614
64	-0.11237	0.00303	0.00145	0.01504	0.00009	-0.00058	1.54246	-0.12289	-0.1830
65	-0.11044	0.00482	0.00231	0.01505	0.00020	-0.00124	1.63672	-0.02975	-0.0443
66	-0.11185	0.00303	0.00145	0.01485	0.00011	-0.00068	1.62738	-0.04200	-0.0625
67	-0.11158	0.00443	0.00212	0.01507	0.00016	-0.00095	1.55854	-0.09477	-0.1411
68	-0.11136	0.00482	0.00231	0.01486	0.00013	-0.00080	1.61226	-0.04075	-0.0607
69	-0.11237	0.00426	0.00204	0.01489	0.00013	-0.00081	1.55750	-0.09083	-0.1353
70	-0.11238	0.00249	0.00119	0.01512	0.00012	-0.00072	1.64042	-0.03466	-0.0516
71	-0.11359	0.00123	0.00059	0.01502	0.00009	-0.00053	1.66239	-0.02345	-0.0349
72	-0.11248	0.00289	0.00138	0.01516	0.00012	-0.00071	1.60779	-0.05674	-0.0845
73	-0.11300	0.00230	0.00110	0.01514	0.00009	-0.00053	1.62467	-0.04191	-0.0624
74	-0.11396	0.00074	0.00035	0.01494	0.00003	-0.00021	1.69349	-0.02208	-0.0328
75	-0.11362	0.00106	0.00051	0.01489	0.00005	-0.00029	1.64979	-0.02269	-0.0338
76	-0.11371	0.00069	0.00033	0.01480	0.00005	-0.00031	1.66233	-0.01835	-0.0273

Note: Pjk is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of that province; Pjl is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the same region; Prs is a percentage change in probability of migrating to a province due to a change in non-ag wages of migrants of another province in the different region.

Appendix F Additional Tables for Chapter 7

F.1 Additional Tables for Section 7.1

This appendix presents the tables of elasticities calculated from model 2 and 3 in 2002, 2004 – 2008 and 2011 - 2012. These elasticities report a change in the probability of migrating to a province for group 2 migrants who are currently working in both agricultural and non-agricultural sectors with respect to a change in a determinant of labor migration.

Table F.1 The Elasticities with respect to Wages from Model 2 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.16222	-0.04536	0.00654	-1.16355	-0.04670	0.00520
2	-1.16109	-0.04353	0.00627	-1.16237	-0.04481	0.00499
3	-1.16070	-0.04405	0.00635	-1.16199	-0.04535	0.00505
4	-1.15998	-0.04350	0.00627	-1.16126	-0.04478	0.00499
5	-1.15843	-0.04178	0.00602	-1.15966	-0.04301	0.00479
6	-1.15665	-0.04010	0.00578	-1.15783	-0.04128	0.00460
7	-1.15334	-0.03653	0.00526	-1.15441	-0.03760	0.00419
8	-1.15468	-0.03817	0.00550	-1.15580	-0.03929	0.00438
9	-1.15265	-0.03540	0.00510	-1.15369	-0.03644	0.00406
10	-1.15621	-0.04001	0.00576	-1.15739	-0.04119	0.00459
11	-1.15581	-0.03942	0.00568	-1.15697	-0.04058	0.00452
12	-1.14993	-0.03403	0.00490	-1.15093	-0.03503	0.00390
13	-1.14628	-0.03044	0.00439	-1.14717	-0.03133	0.00349
14	-1.14255	-0.02703	0.00389	-1.14334	-0.02783	0.00310
15	-1.15656	-0.04045	0.00583	-1.15775	-0.04164	0.00464
16	-1.15476	-0.03783	0.00545	-1.15587	-0.03894	0.00434
17	-1.15679	-0.03988	0.00575	-1.15796	-0.04105	0.00457
18	-1.14933	-0.03313	0.00477	-1.15031	-0.03410	0.00380
19	-1.15544	-0.03911	0.00563	-1.15659	-0.04026	0.00449
20	-1.15462	-0.03758	0.00541	-1.15573	-0.03869	0.00431
21	-1.15482	-0.03877	0.00559	-1.15596	-0.03991	0.00445
22	-1.15850	-0.04171	0.00601	-1.15973	-0.04293	0.00478
23	-1.15988	-0.04306	0.00620	-1.16115	-0.04433	0.00494
24	-1.16022	-0.04121	0.00594	-1.16143	-0.04242	0.00473
25	-1.15387	-0.03781	0.00545	-1.15498	-0.03892	0.00434
26	-1.15260	-0.03049	0.00439	-1.15349	-0.03138	0.00350
27	-0.81120	-0.05721	0.01575	-0.81163	-0.05765	0.01531
28	-0.81307	-0.05922	0.01630	-0.81352	-0.05967	0.01585
29	-0.81619	-0.06324	0.01741	-0.81667	-0.06372	0.01693
30	-0.82507	-0.07206	0.01984	-0.82561	-0.07261	0.01929
31	-0.82162	-0.06737	0.01854	-0.82213	-0.06788	0.01803
32	-0.81210	-0.05867	0.01615	-0.81255	-0.05911	0.01570
33	-0.80890	-0.05683	0.01564	-0.80933	-0.05726	0.01521
34	-0.80067	-0.04917	0.01353	-0.80104	-0.04954	0.01316
35	-0.79473	-0.04324	0.01190	-0.79506	-0.04356	0.01157
36	-0.85026	-0.09238	0.02543	-0.85096	-0.09308	0.02473
37	-0.84903	-0.09371	0.02580	-0.84974	-0.09442	0.02509
38	-0.83816	-0.08150	0.02244	-0.83878	-0.08212	0.02182
39	-0.83083	-0.07698	0.02119	-0.83142	-0.07756	0.02061
40	-0.83039	-0.07728	0.02127	-0.83098	-0.07787	0.02069
41	-0.83502	-0.08156	0.02245	-0.83564	-0.08218	0.02183
42	-0.83875	-0.08378	0.02306	-0.83939	-0.08442	0.02243
43	-0.83602	-0.08156	0.02245	-0.83664	-0.08218	0.02183

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.59214	0.00322	0.11274	-0.59315	0.00221	0.11173
45	-0.59245	0.00291	0.10186	-0.59337	0.00199	0.10095
46	-0.59217	0.00279	0.09759	-0.59305	0.00191	0.09671
47	-0.59198	0.00255	0.08920	-0.59278	0.00175	0.08839
48	-0.59185	0.00242	0.08480	-0.59261	0.00166	0.08404
49	-0.59258	0.00260	0.09108	-0.59340	0.00178	0.09026
50	-0.59236	0.00307	0.10751	-0.59333	0.00210	0.10654
51	-0.59279	0.00246	0.08621	-0.59356	0.00169	0.08544
52	-0.59229	0.00264	0.09225	-0.59312	0.00180	0.09142
53	-0.59242	0.00281	0.09849	-0.59330	0.00193	0.09761
54	-0.59231	0.00252	0.08833	-0.59311	0.00173	0.08753
55	-0.59269	0.00263	0.09209	-0.59352	0.00180	0.09126
56	-0.59187	0.00240	0.08409	-0.59263	0.00165	0.08333
57	-0.59210	0.00275	0.09616	-0.59296	0.00188	0.09530
58	-0.59213	0.00267	0.09334	-0.59297	0.00183	0.09250
59	-0.59220	0.00265	0.09273	-0.59304	0.00181	0.09190
60	-0.59183	0.00237	0.08284	-0.59257	0.00162	0.08209
61	-0.59191	0.00218	0.07643	-0.59260	0.00150	0.07574
62	-0.59189	0.00233	0.08165	-0.59263	0.00160	0.08092
63	-3.96723	0.10402	0.00366	-3.96426	0.10699	0.00663
64	-3.98128	0.09887	0.00348	-3.97846	0.10169	0.00630
65	-3.96993	0.09744	0.00343	-3.96715	0.10022	0.00621
66	-4.00815	0.05049	0.00178	-4.00671	0.05194	0.00322
67	-3.83147	0.25436	0.00894	-3.82420	0.26163	0.01621
68	-3.74941	0.34543	0.01215	-3.73954	0.35530	0.02201
69	-3.42271	0.67501	0.02373	-3.40342	0.69429	0.04302
70	-4.04058	0.03433	0.00121	-4.03960	0.03531	0.00219
71	-4.04183	0.03420	0.00120	-4.04086	0.03518	0.00218
72	-4.00560	0.07435	0.00261	-4.00348	0.07647	0.00474
73	-4.01102	0.06815	0.00240	-4.00907	0.07010	0.00434
74	-4.04905	0.02321	0.00082	-4.04839	0.02387	0.00148
75	-4.05750	0.01658	0.00058	-4.05703	0.01705	0.00106
76	-4.06029	0.01320	0.00046	-4.05992	0.01357	0.00084

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.2 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.22109	-0.00863	0.00124	-0.22134	-0.00888	0.00099
2	-0.21820	-0.00818	0.00118	-0.21844	-0.00842	0.00094
3	-0.22128	-0.00840	0.00121	-0.22153	-0.00865	0.00096
4	-0.22164	-0.00831	0.00120	-0.22188	-0.00856	0.00095
5	-0.22016	-0.00794	0.00114	-0.22039	-0.00817	0.00091
6	-0.21977	-0.00762	0.00110	-0.21999	-0.00784	0.00087
7	-0.21734	-0.00688	0.00099	-0.21754	-0.00709	0.00079
8	-0.21911	-0.00724	0.00104	-0.21933	-0.00746	0.00083
9	-0.21520	-0.00661	0.00095	-0.21539	-0.00680	0.00076
10	-0.22122	-0.00766	0.00110	-0.22145	-0.00788	0.00088
11	-0.22066	-0.00753	0.00108	-0.22088	-0.00775	0.00086
12	-0.22072	-0.00653	0.00094	-0.22091	-0.00672	0.00075
13	-0.21933	-0.00582	0.00084	-0.21950	-0.00599	0.00067
14	-0.21955	-0.00519	0.00075	-0.21970	-0.00535	0.00060
15	-0.22220	-0.00777	0.00112	-0.22243	-0.00800	0.00089
16	-0.21769	-0.00713	0.00103	-0.21790	-0.00734	0.00082
17	-0.21844	-0.00753	0.00109	-0.21867	-0.00775	0.00086
18	-0.21861	-0.00630	0.00091	-0.21880	-0.00649	0.00072
19	-0.22057	-0.00747	0.00108	-0.22079	-0.00769	0.00086
20	-0.21728	-0.00707	0.00102	-0.21748	-0.00728	0.00081
21	-0.22145	-0.00743	0.00107	-0.22167	-0.00765	0.00085
22	-0.21984	-0.00791	0.00114	-0.22007	-0.00815	0.00091
23	-0.22027	-0.00818	0.00118	-0.22051	-0.00842	0.00094
24	-0.21350	-0.00758	0.00109	-0.21373	-0.00781	0.00087
25	-0.22119	-0.00725	0.00104	-0.22141	-0.00746	0.00083
26	-0.20355	-0.00538	0.00078	-0.20371	-0.00554	0.00062
27	-0.14915	-0.01052	0.00290	-0.14923	-0.01060	0.00282
28	-0.15028	-0.01095	0.00301	-0.15036	-0.01103	0.00293
29	-0.15375	-0.01191	0.00328	-0.15384	-0.01200	0.00319
30	-0.15649	-0.01367	0.00376	-0.15659	-0.01377	0.00366
31	-0.15254	-0.01251	0.00344	-0.15263	-0.01260	0.00335
32	-0.15123	-0.01093	0.00301	-0.15132	-0.01101	0.00292
33	-0.15348	-0.01078	0.00297	-0.15356	-0.01086	0.00289
34	-0.15208	-0.00934	0.00257	-0.15215	-0.00941	0.00250
35	-0.14982	-0.00815	0.00224	-0.14988	-0.00821	0.00218
36	-0.15399	-0.01673	0.00461	-0.15411	-0.01686	0.00448
37	-0.15887	-0.01754	0.00483	-0.15900	-0.01767	0.00469
38	-0.15282	-0.01486	0.00409	-0.15294	-0.01497	0.00398
39	-0.15641	-0.01449	0.00399	-0.15652	-0.01460	0.00388
40	-0.15785	-0.01469	0.00404	-0.15796	-0.01480	0.00393
41	-0.15848	-0.01548	0.00426	-0.15860	-0.01560	0.00414
42	-0.15645	-0.01563	0.00430	-0.15657	-0.01575	0.00418
43	-0.15663	-0.01528	0.00421	-0.15675	-0.01540	0.00409

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.11036	0.00060	0.02101	-0.11055	0.00041	0.02082
45	-0.11031	0.00054	0.01897	-0.11048	0.00037	0.01880
46	-0.11172	0.00053	0.01841	-0.11189	0.00036	0.01825
47	-0.11202	0.00048	0.01688	-0.11217	0.00033	0.01673
48	-0.11215	0.00046	0.01607	-0.11230	0.00031	0.01592
49	-0.11031	0.00048	0.01695	-0.11046	0.00033	0.01680
50	-0.11074	0.00057	0.02010	-0.11092	0.00039	0.01992
51	-0.10953	0.00046	0.01593	-0.10967	0.00031	0.01579
52	-0.11140	0.00050	0.01735	-0.11156	0.00034	0.01720
53	-0.11095	0.00053	0.01845	-0.11111	0.00036	0.01828
54	-0.11119	0.00047	0.01658	-0.11134	0.00032	0.01643
55	-0.11024	0.00049	0.01713	-0.11039	0.00034	0.01697
56	-0.11204	0.00045	0.01592	-0.11219	0.00031	0.01578
57	-0.11190	0.00052	0.01817	-0.11206	0.00036	0.01801
58	-0.11178	0.00050	0.01762	-0.11194	0.00034	0.01746
59	-0.11158	0.00050	0.01747	-0.11174	0.00034	0.01731
60	-0.11208	0.00045	0.01569	-0.11222	0.00031	0.01555
61	-0.11161	0.00041	0.01441	-0.11174	0.00028	0.01428
62	-0.11191	0.00044	0.01544	-0.11205	0.00030	0.01530
63	-0.74050	0.01942	0.00068	-0.73994	0.01997	0.00124
64	-0.75782	0.01882	0.00066	-0.75728	0.01936	0.00120
65	-0.75290	0.01848	0.00065	-0.75237	0.01901	0.00118
66	-0.76515	0.00964	0.00034	-0.76487	0.00991	0.00061
67	-0.73038	0.04849	0.00170	-0.72900	0.04987	0.00309
68	-0.71071	0.06548	0.00230	-0.70884	0.06735	0.00417
69	-0.65165	0.12851	0.00452	-0.64798	0.13219	0.00819
70	-0.77463	0.00658	0.00023	-0.77444	0.00677	0.00042
71	-0.77212	0.00653	0.00023	-0.77193	0.00672	0.00042
72	-0.76457	0.01419	0.00050	-0.76416	0.01460	0.00090
73	-0.76354	0.01297	0.00046	-0.76317	0.01334	0.00083
74	-0.77089	0.00442	0.00016	-0.77076	0.00455	0.00028
75	-0.78020	0.00319	0.00011	-0.78011	0.00328	0.00020
76	-0.77235	0.00251	0.00009	-0.77228	0.00258	0.00016

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.3 The Elasticities with respect to Distances from Model 2 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.29136	-0.01137	0.00164	-0.29169	-0.01171	0.00130
2	-0.33628	-0.01261	0.00182	-0.33665	-0.01298	0.00145
3	-0.32110	-0.01219	0.00176	-0.32145	-0.01255	0.00140
4	-0.33360	-0.01251	0.00180	-0.33396	-0.01288	0.00143
5	-0.37617	-0.01357	0.00195	-0.37657	-0.01396	0.00156
6	-0.41824	-0.01450	0.00209	-0.41867	-0.01493	0.00166
7	-0.51492	-0.01631	0.00235	-0.51539	-0.01679	0.00187
8	-0.46870	-0.01550	0.00223	-0.46916	-0.01595	0.00178
9	-0.54857	-0.01685	0.00243	-0.54907	-0.01734	0.00193
10	-0.41903	-0.01450	0.00209	-0.41946	-0.01493	0.00166
11	-0.43463	-0.01482	0.00214	-0.43506	-0.01526	0.00170
12	-0.58312	-0.01726	0.00249	-0.58363	-0.01776	0.00198
13	-0.69667	-0.01850	0.00267	-0.69722	-0.01904	0.00212
14	-0.81525	-0.01929	0.00278	-0.81582	-0.01985	0.00221
15	-0.40705	-0.01424	0.00205	-0.40747	-0.01465	0.00163
16	-0.47931	-0.01570	0.00226	-0.47977	-0.01616	0.00180
17	-0.42500	-0.01465	0.00211	-0.42543	-0.01508	0.00168
18	-0.61213	-0.01765	0.00254	-0.61265	-0.01816	0.00202
19	-0.44275	-0.01499	0.00216	-0.44320	-0.01543	0.00172
20	-0.48625	-0.01583	0.00228	-0.48672	-0.01629	0.00182
21	-0.45071	-0.01513	0.00218	-0.45116	-0.01558	0.00174
22	-0.37822	-0.01362	0.00196	-0.37862	-0.01402	0.00156
23	-0.34529	-0.01282	0.00185	-0.34566	-0.01320	0.00147
24	-0.39643	-0.01408	0.00203	-0.39685	-0.01449	0.00162
25	-0.47647	-0.01561	0.00225	-0.47693	-0.01607	0.00179
26	-0.70988	-0.01878	0.00271	-0.71043	-0.01933	0.00215
27	-0.93595	-0.06601	0.01817	-0.93646	-0.06651	0.01767
28	-0.90032	-0.06557	0.01805	-0.90082	-0.06607	0.01755
29	-0.83055	-0.06436	0.01771	-0.83103	-0.06484	0.01723
30	-0.69543	-0.06074	0.01672	-0.69589	-0.06120	0.01626
31	-0.76819	-0.06299	0.01734	-0.76866	-0.06347	0.01686
32	-0.90861	-0.06564	0.01807	-0.90911	-0.06614	0.01757
33	-0.93793	-0.06589	0.01814	-0.93843	-0.06639	0.01764
34	-1.08303	-0.06651	0.01831	-1.08354	-0.06701	0.01780
35	-1.21213	-0.06594	0.01815	-1.21263	-0.06644	0.01765
36	-0.44143	-0.04796	0.01320	-0.44179	-0.04832	0.01284
37	-0.42063	-0.04643	0.01278	-0.42099	-0.04678	0.01243
38	-0.57335	-0.05575	0.01535	-0.57377	-0.05618	0.01492
39	-0.62807	-0.05819	0.01602	-0.62851	-0.05863	0.01558
40	-0.62238	-0.05792	0.01594	-0.62282	-0.05836	0.01550
41	-0.56617	-0.05530	0.01522	-0.56658	-0.05572	0.01480
42	-0.54063	-0.05400	0.01486	-0.54104	-0.05441	0.01446
43	-0.56822	-0.05544	0.01526	-0.56864	-0.05586	0.01484
44	-0.34383	0.00187	0.06546	-0.34442	0.00128	0.06488
45	-0.44508	0.00219	0.07653	-0.44577	0.00150	0.07584
46	-0.48619	0.00229	0.08012	-0.48692	0.00157	0.07940
47	-0.57538	0.00248	0.08669	-0.57616	0.00170	0.08591
48	-0.62556	0.00256	0.08963	-0.62637	0.00175	0.08882
49	-0.55672	0.00244	0.08556	-0.55749	0.00167	0.08479
50	-0.39091	0.00203	0.07095	-0.39155	0.00139	0.07031
51	-0.61235	0.00254	0.08906	-0.61315	0.00174	0.08826
52	-0.54262	0.00241	0.08452	-0.54338	0.00165	0.08376
53	-0.47794	0.00227	0.07946	-0.47865	0.00155	0.07875
54	-0.58617	0.00250	0.08741	-0.58695	0.00171	0.08663
55	-0.54580	0.00242	0.08481	-0.54657	0.00166	0.08404
56	-0.63406	0.00257	0.09008	-0.63487	0.00176	0.08927
57	-0.50065	0.00232	0.08131	-0.50138	0.00159	0.08058
58	-0.53049	0.00239	0.08362	-0.53124	0.00164	0.08287
59	-0.53724	0.00240	0.08412	-0.53800	0.00165	0.08337
60	-0.64893	0.00259	0.09083	-0.64975	0.00178	0.09002
61	-0.72983	0.00269	0.09424	-0.73068	0.00184	0.09339
62	-0.66356	0.00261	0.09154	-0.66439	0.00179	0.09071
63	-5.23583	0.13729	0.00483	-5.23191	0.14121	0.00875
64	-5.26964	0.13086	0.00460	-5.26590	0.13460	0.00834
65	-5.29986	0.13008	0.00457	-5.29615	0.13380	0.00829
66	-6.01473	0.07577	0.00266	-6.01256	0.07794	0.00483
67	-4.17203	0.27697	0.00974	-4.16412	0.28488	0.01765
68	-3.78972	0.34914	0.01228	-3.77975	0.35912	0.02225
69	-2.89235	0.57041	0.02006	-2.87605	0.58671	0.03635
70	-6.40328	0.05440	0.00191	-6.40172	0.05596	0.00347
71	-6.40899	0.05423	0.00191	-6.40744	0.05578	0.00346
72	-5.58002	0.10357	0.00364	-5.57706	0.10653	0.00660
73	-5.67694	0.09646	0.00339	-5.67419	0.09921	0.00615
74	-6.81784	0.03908	0.00137	-6.81673	0.04020	0.00249
75	-7.15487	0.02923	0.00103	-7.15404	0.03007	0.00186
76	-7.39720	0.02404	0.00085	-7.39651	0.02473	0.00153

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.4 The Elasticities with respect to Wages from Model 3 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.00907	-0.04152	0.00710	-1.01009	-0.04254	0.00608
2	-0.99510	-0.02694	0.00461	-0.99576	-0.02760	0.00394
3	-0.97523	-0.00786	0.00134	-0.97542	-0.00805	0.00115
4	-0.99617	-0.02894	0.00495	-0.99689	-0.02966	0.00424
5	-0.99908	-0.03170	0.00542	-0.99986	-0.03248	0.00464
6	-0.99165	-0.02435	0.00416	-0.99224	-0.02495	0.00357
7	-0.99331	-0.02580	0.00441	-0.99395	-0.02644	0.00378
8	-0.98664	-0.01939	0.00332	-0.98711	-0.01987	0.00284
9	-1.00154	-0.03364	0.00575	-1.00236	-0.03447	0.00493
10	-0.98671	-0.01972	0.00337	-0.98719	-0.02020	0.00289
11	-0.98046	-0.01331	0.00228	-0.98079	-0.01364	0.00195
12	-0.98770	-0.02098	0.00359	-0.98822	-0.02150	0.00307
13	-0.98494	-0.01826	0.00312	-0.98539	-0.01871	0.00267
14	-0.97344	-0.00705	0.00120	-0.97361	-0.00722	0.00103
15	-0.98750	-0.02059	0.00352	-0.98800	-0.02109	0.00301
16	-0.98516	-0.01754	0.00300	-0.98559	-0.01797	0.00257
17	-1.00472	-0.03712	0.00635	-1.00563	-0.03803	0.00544
18	-0.98597	-0.01898	0.00325	-0.98644	-0.01945	0.00278
19	-0.99829	-0.03120	0.00533	-0.99906	-0.03196	0.00457
20	-1.00386	-0.03615	0.00618	-1.00475	-0.03703	0.00529
21	-0.98553	-0.01867	0.00319	-0.98599	-0.01913	0.00273
22	-0.98705	-0.01955	0.00334	-0.98753	-0.02003	0.00286
23	-0.99954	-0.03202	0.00547	-1.00033	-0.03280	0.00469
24	-0.99230	-0.02288	0.00391	-0.99286	-0.02344	0.00335
25	-0.99226	-0.02539	0.00434	-0.99288	-0.02602	0.00372
26	-0.99038	-0.01828	0.00312	-0.99083	-0.01872	0.00268
27	-0.53898	-0.05234	0.01434	-0.53941	-0.05277	0.01391
28	-0.53786	-0.05129	0.01406	-0.53828	-0.05171	0.01363
29	-0.55036	-0.06438	0.01764	-0.55089	-0.06491	0.01711
30	-0.53325	-0.04723	0.01294	-0.53364	-0.04762	0.01256
31	-0.54788	-0.06106	0.01673	-0.54838	-0.06156	0.01623
32	-0.53076	-0.04446	0.01219	-0.53112	-0.04483	0.01182
33	-0.51887	-0.03346	0.00917	-0.51915	-0.03373	0.00889
34	-0.52854	-0.04349	0.01192	-0.52890	-0.04385	0.01156
35	-0.51669	-0.03165	0.00867	-0.51695	-0.03191	0.00841
36	-0.54913	-0.05997	0.01643	-0.54963	-0.06046	0.01594
37	-0.57617	-0.08866	0.02430	-0.57690	-0.08939	0.02357
38	-0.55701	-0.06864	0.01881	-0.55757	-0.06920	0.01824
39	-0.55907	-0.07251	0.01987	-0.55967	-0.07310	0.01927
40	-0.54133	-0.05525	0.01514	-0.54179	-0.05570	0.01469
41	-0.53278	-0.04648	0.01274	-0.53317	-0.04686	0.01235
42	-0.55177	-0.06449	0.01767	-0.55230	-0.06502	0.01714
43	-0.55720	-0.07025	0.01925	-0.55778	-0.07083	0.01867
44	-0.38579	-0.00279	0.09499	-0.38723	-0.00423	0.09355
45	-0.38560	-0.00260	0.08848	-0.38694	-0.00394	0.08714
46	-0.38453	-0.00179	0.06081	-0.38545	-0.00271	0.05989
47	-0.38461	-0.00214	0.07301	-0.38571	-0.00325	0.07190
48	-0.38395	-0.00165	0.05619	-0.38480	-0.00250	0.05534
49	-0.38415	-0.00126	0.04287	-0.38480	-0.00191	0.04222
50	-0.38563	-0.00259	0.08805	-0.38696	-0.00392	0.08672
51	-0.38468	-0.00175	0.05946	-0.38557	-0.00265	0.05856
52	-0.38440	-0.00168	0.05714	-0.38526	-0.00254	0.05628
53	-0.38574	-0.00282	0.09593	-0.38719	-0.00427	0.09448
54	-0.38432	-0.00166	0.05643	-0.38517	-0.00251	0.05557
55	-0.38524	-0.00227	0.07710	-0.38640	-0.00343	0.07594
56	-0.38394	-0.00164	0.05569	-0.38478	-0.00248	0.05485
57	-0.38500	-0.00233	0.07919	-0.38619	-0.00352	0.07799
58	-0.38458	-0.00195	0.06632	-0.38559	-0.00295	0.06531
59	-0.38454	-0.00187	0.06356	-0.38550	-0.00283	0.06260
60	-0.38401	-0.00175	0.05973	-0.38491	-0.00266	0.05883
61	-0.38355	-0.00137	0.04649	-0.38426	-0.00207	0.04579
62	-0.38443	-0.00216	0.07349	-0.38554	-0.00327	0.07238
63	-5.17602	0.18693	0.00246	-5.17391	0.18904	0.00458
64	-5.28891	0.08576	0.00113	-5.28794	0.08673	0.00210
65	-5.33737	0.02046	0.00027	-5.33714	0.02069	0.00050
66	-5.34522	0.00111	0.00001	-5.34521	0.00113	0.00003
67	-5.16172	0.22044	0.00290	-5.15922	0.22293	0.00540
68	-5.25237	0.14165	0.00187	-5.25077	0.14325	0.00347
69	-3.66973	1.72808	0.02276	-3.65017	1.74763	0.04232
70	-5.35492	0.01285	0.00017	-5.35478	0.01299	0.00031
71	-5.35558	0.01366	0.00018	-5.35542	0.01382	0.00033
72	-5.13465	0.23975	0.00316	-5.13194	0.24246	0.00587
73	-4.31876	1.05461	0.01389	-4.30682	1.06655	0.02583
74	-5.33423	0.03005	0.00040	-5.33389	0.03039	0.00074
75	-5.36226	0.00441	0.00006	-5.36221	0.00446	0.00011
76	-5.36463	0.00126	0.00002	-5.36461	0.00128	0.00003

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.5 The Elasticities with respect to Employment Rates from Model 3 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.21415	-0.00881	0.00151	-0.21437	-0.00903	0.00129
2	-0.20863	-0.00565	0.00097	-0.20876	-0.00579	0.00083
3	-0.20742	-0.00167	0.00029	-0.20746	-0.00171	0.00024
4	-0.21235	-0.00617	0.00106	-0.21250	-0.00632	0.00090
5	-0.21183	-0.00672	0.00115	-0.21199	-0.00689	0.00098
6	-0.21020	-0.00516	0.00088	-0.21033	-0.00529	0.00076
7	-0.20883	-0.00542	0.00093	-0.20896	-0.00556	0.00079
8	-0.20887	-0.00410	0.00070	-0.20897	-0.00421	0.00060
9	-0.20861	-0.00701	0.00120	-0.20878	-0.00718	0.00103
10	-0.21062	-0.00421	0.00072	-0.21072	-0.00431	0.00062
11	-0.20882	-0.00283	0.00048	-0.20889	-0.00290	0.00042
12	-0.21150	-0.00449	0.00077	-0.21161	-0.00460	0.00066
13	-0.21025	-0.00390	0.00067	-0.21034	-0.00399	0.00057
14	-0.20868	-0.00151	0.00026	-0.20872	-0.00155	0.00022
15	-0.21165	-0.00441	0.00075	-0.21176	-0.00452	0.00065
16	-0.20719	-0.00369	0.00063	-0.20728	-0.00378	0.00054
17	-0.21166	-0.00782	0.00134	-0.21186	-0.00801	0.00115
18	-0.20922	-0.00403	0.00069	-0.20932	-0.00413	0.00059
19	-0.21261	-0.00664	0.00114	-0.21277	-0.00681	0.00097
20	-0.21075	-0.00759	0.00130	-0.21093	-0.00777	0.00111
21	-0.21084	-0.00399	0.00068	-0.21094	-0.00409	0.00058
22	-0.20896	-0.00414	0.00071	-0.20906	-0.00424	0.00061
23	-0.21177	-0.00678	0.00116	-0.21194	-0.00695	0.00099
24	-0.20372	-0.00470	0.00080	-0.20383	-0.00481	0.00069
25	-0.21221	-0.00543	0.00093	-0.21234	-0.00556	0.00080
26	-0.19513	-0.00360	0.00062	-0.19522	-0.00369	0.00053
27	-0.11056	-0.01073	0.00294	-0.11064	-0.01082	0.00285
28	-0.11091	-0.01058	0.00290	-0.11099	-0.01066	0.00281
29	-0.11566	-0.01353	0.00371	-0.11577	-0.01364	0.00360
30	-0.11284	-0.00999	0.00274	-0.11292	-0.01008	0.00266
31	-0.11348	-0.01265	0.00347	-0.11358	-0.01275	0.00336
32	-0.11027	-0.00924	0.00253	-0.11034	-0.00931	0.00246
33	-0.10983	-0.00708	0.00194	-0.10989	-0.00714	0.00188
34	-0.11200	-0.00922	0.00253	-0.11208	-0.00929	0.00245
35	-0.10867	-0.00666	0.00182	-0.10872	-0.00671	0.00177
36	-0.11095	-0.01212	0.00332	-0.11105	-0.01222	0.00322
37	-0.12028	-0.01851	0.00507	-0.12043	-0.01866	0.00492
38	-0.11330	-0.01396	0.00383	-0.11342	-0.01408	0.00371
39	-0.11742	-0.01523	0.00417	-0.11755	-0.01535	0.00405
40	-0.11480	-0.01172	0.00321	-0.11490	-0.01181	0.00311
41	-0.11281	-0.00984	0.00270	-0.11289	-0.00992	0.00262
42	-0.11482	-0.01342	0.00368	-0.11493	-0.01353	0.00357
43	-0.11646	-0.01468	0.00402	-0.11658	-0.01480	0.00390
44	-0.08021	-0.00058	0.01975	-0.08051	-0.00088	0.01945
45	-0.08010	-0.00054	0.01838	-0.08038	-0.00082	0.01810
46	-0.08094	-0.00038	0.01280	-0.08113	-0.00057	0.01261
47	-0.08119	-0.00045	0.01541	-0.08143	-0.00069	0.01518
48	-0.08117	-0.00035	0.01188	-0.08135	-0.00053	0.01170
49	-0.07978	-0.00026	0.00890	-0.07991	-0.00040	0.00877
50	-0.08043	-0.00054	0.01836	-0.08070	-0.00082	0.01809
51	-0.07929	-0.00036	0.01226	-0.07948	-0.00055	0.01207
52	-0.08066	-0.00035	0.01199	-0.08084	-0.00053	0.01181
53	-0.08059	-0.00059	0.02004	-0.08089	-0.00089	0.01974
54	-0.08049	-0.00035	0.01182	-0.08067	-0.00053	0.01164
55	-0.07994	-0.00047	0.01600	-0.08018	-0.00071	0.01576
56	-0.08108	-0.00035	0.01176	-0.08126	-0.00052	0.01158
57	-0.08117	-0.00049	0.01670	-0.08142	-0.00074	0.01644
58	-0.08099	-0.00041	0.01397	-0.08121	-0.00062	0.01376
59	-0.08083	-0.00039	0.01336	-0.08103	-0.00059	0.01316
60	-0.08113	-0.00037	0.01262	-0.08132	-0.00056	0.01243
61	-0.08069	-0.00029	0.00978	-0.08084	-0.00044	0.00963
62	-0.08109	-0.00046	0.01550	-0.08132	-0.00069	0.01527
63	-1.07782	0.03892	0.00051	-1.07738	0.03937	0.00095
64	-1.12311	0.01821	0.00024	-1.12291	0.01842	0.00045
65	-1.12927	0.00433	0.00006	-1.12922	0.00438	0.00011
66	-1.13837	0.00024	0.00000	-1.13837	0.00024	0.00001
67	-1.09773	0.04688	0.00062	-1.09720	0.04741	0.00115
68	-1.11071	0.02995	0.00039	-1.11037	0.03029	0.00073
69	-0.77946	0.36705	0.00484	-0.77531	0.37120	0.00899
70	-1.14530	0.00275	0.00004	-1.14527	0.00278	0.00007
71	-1.14137	0.00291	0.00004	-1.14134	0.00294	0.00007
72	-1.09339	0.05105	0.00067	-1.09281	0.05163	0.00125
73	-0.91718	0.22397	0.00295	-0.91464	0.22650	0.00549
74	-1.13299	0.00638	0.00008	-1.13292	0.00646	0.00016
75	-1.15030	0.00095	0.00001	-1.15029	0.00096	0.00002
76	-1.13845	0.00027	0.00000	-1.13844	0.00027	0.00001

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.6 The Elasticities with respect to Distances from Model 3 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.31941	-0.01314	0.00225	-0.31973	-0.01347	0.00192
2	-0.36391	-0.00985	0.00168	-0.36415	-0.01009	0.00144
3	-0.34065	-0.00274	0.00047	-0.34071	-0.00281	0.00040
4	-0.36173	-0.01051	0.00180	-0.36199	-0.01077	0.00154
5	-0.40963	-0.01300	0.00222	-0.40995	-0.01332	0.00190
6	-0.45276	-0.01112	0.00190	-0.45303	-0.01139	0.00163
7	-0.55995	-0.01455	0.00249	-0.56031	-0.01490	0.00213
8	-0.50568	-0.00994	0.00170	-0.50593	-0.01018	0.00146
9	-0.60184	-0.02022	0.00346	-0.60234	-0.02071	0.00296
10	-0.45152	-0.00902	0.00154	-0.45174	-0.00924	0.00132
11	-0.46552	-0.00632	0.00108	-0.46568	-0.00647	0.00093
12	-0.63241	-0.01343	0.00230	-0.63274	-0.01376	0.00197
13	-0.75584	-0.01402	0.00240	-0.75619	-0.01436	0.00205
14	-0.87702	-0.00635	0.00109	-0.87718	-0.00650	0.00093
15	-0.43883	-0.00915	0.00156	-0.43906	-0.00937	0.00134
16	-0.51632	-0.00919	0.00157	-0.51655	-0.00942	0.00135
17	-0.46608	-0.01722	0.00294	-0.46650	-0.01764	0.00252
18	-0.66305	-0.01277	0.00218	-0.66336	-0.01308	0.00187
19	-0.48301	-0.01509	0.00258	-0.48338	-0.01547	0.00221
20	-0.53380	-0.01922	0.00329	-0.53427	-0.01969	0.00281
21	-0.48567	-0.00920	0.00157	-0.48589	-0.00943	0.00135
22	-0.40689	-0.00806	0.00138	-0.40709	-0.00826	0.00118
23	-0.37571	-0.01204	0.00206	-0.37601	-0.01233	0.00176
24	-0.42811	-0.00987	0.00169	-0.42835	-0.01011	0.00145
25	-0.51735	-0.01324	0.00226	-0.51768	-0.01357	0.00194
26	-0.77018	-0.01421	0.00243	-0.77053	-0.01456	0.00208
27	-0.78521	-0.07624	0.02089	-0.78584	-0.07687	0.02027
28	-0.75200	-0.07171	0.01965	-0.75259	-0.07230	0.01906
29	-0.70713	-0.08272	0.02267	-0.70781	-0.08340	0.02199
30	-0.56752	-0.05027	0.01378	-0.56793	-0.05068	0.01336
31	-0.64679	-0.07208	0.01975	-0.64738	-0.07268	0.01916
32	-0.74980	-0.06281	0.01721	-0.75032	-0.06333	0.01670
33	-0.75966	-0.04898	0.01342	-0.76006	-0.04939	0.01302
34	-0.90271	-0.07428	0.02036	-0.90332	-0.07490	0.01975
35	-0.99505	-0.06095	0.01670	-0.99555	-0.06145	0.01620
36	-0.35997	-0.03931	0.01077	-0.36030	-0.03963	0.01045
37	-0.36042	-0.05546	0.01520	-0.36088	-0.05592	0.01474
38	-0.48110	-0.05928	0.01625	-0.48159	-0.05977	0.01576
39	-0.53364	-0.06921	0.01897	-0.53421	-0.06978	0.01840
40	-0.51230	-0.05229	0.01433	-0.51273	-0.05272	0.01390
41	-0.45612	-0.03979	0.01090	-0.45645	-0.04012	0.01058
42	-0.44906	-0.05248	0.01438	-0.44950	-0.05292	0.01395
43	-0.47819	-0.06029	0.01652	-0.47869	-0.06078	0.01603
44	-0.28285	-0.00205	0.06964	-0.28390	-0.00310	0.06859
45	-0.36577	-0.00247	0.08392	-0.36704	-0.00373	0.08266
46	-0.39864	-0.00185	0.06304	-0.39959	-0.00280	0.06209
47	-0.47201	-0.00263	0.08960	-0.47336	-0.00399	0.08824
48	-0.51241	-0.00220	0.07499	-0.51354	-0.00334	0.07385
49	-0.45569	-0.00149	0.05085	-0.45645	-0.00226	0.05008
50	-0.32133	-0.00216	0.07337	-0.32244	-0.00326	0.07226
51	-0.50174	-0.00228	0.07755	-0.50291	-0.00345	0.07638
52	-0.44466	-0.00194	0.06610	-0.44566	-0.00294	0.06510
53	-0.39293	-0.00287	0.09772	-0.39441	-0.00435	0.09624
54	-0.48023	-0.00207	0.07051	-0.48129	-0.00314	0.06944
55	-0.44795	-0.00263	0.08966	-0.44930	-0.00399	0.08830
56	-0.51933	-0.00221	0.07533	-0.52047	-0.00335	0.07420
57	-0.41104	-0.00248	0.08455	-0.41231	-0.00376	0.08327
58	-0.43505	-0.00220	0.07502	-0.43618	-0.00334	0.07388
59	-0.44048	-0.00214	0.07280	-0.44158	-0.00324	0.07170
60	-0.53165	-0.00243	0.08270	-0.53290	-0.00368	0.08145
61	-0.59714	-0.00213	0.07238	-0.59823	-0.00322	0.07129
62	-0.54418	-0.00306	0.10403	-0.54575	-0.00463	0.10245
63	-8.62538	0.31150	0.00410	-8.62185	0.31502	0.00763
64	-8.83910	0.14332	0.00189	-8.83747	0.14494	0.00351
65	-8.99691	0.03449	0.00045	-8.99652	0.03488	0.00084
66	-10.12796	0.00211	0.00003	-10.12793	0.00214	0.00005
67	-7.09676	0.30307	0.00399	-7.09333	0.30650	0.00742
68	-6.70322	0.18077	0.00238	-6.70118	0.18282	0.00443
69	-3.91561	1.84386	0.02429	-3.89474	1.86473	0.04516
70	-10.71508	0.02570	0.00034	-10.71479	0.02599	0.00063
71	-10.72263	0.02736	0.00036	-10.72232	0.02767	0.00067
72	-9.03156	0.42170	0.00556	-9.02679	0.42648	0.01033
73	-7.71797	1.88468	0.02483	-7.69664	1.90601	0.04616
74	-11.34094	0.06389	0.00084	-11.34022	0.06462	0.00156
75	-11.93920	0.00982	0.00013	-11.93908	0.00993	0.00024
76	-12.34051	0.00291	0.00004	-12.34048	0.00294	0.00007

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.7 The Elasticities with respect to Food Expense Shares from Model 3 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.04257	-0.00175	0.00030	-0.04261	-0.00179	0.00026
2	-0.05751	-0.00156	0.00027	-0.05754	-0.00160	0.00023
3	-0.04416	-0.00036	0.00006	-0.04416	-0.00036	0.00005
4	-0.05282	-0.00153	0.00026	-0.05286	-0.00157	0.00022
5	-0.05740	-0.00182	0.00031	-0.05744	-0.00187	0.00027
6	-0.05853	-0.00144	0.00025	-0.05857	-0.00147	0.00021
7	-0.06037	-0.00157	0.00027	-0.06041	-0.00161	0.00023
8	-0.07323	-0.00144	0.00025	-0.07326	-0.00147	0.00021
9	-0.04773	-0.00160	0.00027	-0.04776	-0.00164	0.00023
10	-0.05521	-0.00110	0.00019	-0.05524	-0.00113	0.00016
11	-0.06234	-0.00085	0.00014	-0.06236	-0.00087	0.00012
12	-0.04627	-0.00098	0.00017	-0.04629	-0.00101	0.00014
13	-0.06486	-0.00120	0.00021	-0.06489	-0.00123	0.00018
14	-0.08903	-0.00064	0.00011	-0.08905	-0.00066	0.00009
15	-0.05626	-0.00117	0.00020	-0.05629	-0.00120	0.00017
16	-0.07025	-0.00125	0.00021	-0.07028	-0.00128	0.00018
17	-0.06279	-0.00232	0.00040	-0.06285	-0.00238	0.00034
18	-0.06245	-0.00120	0.00021	-0.06248	-0.00123	0.00018
19	-0.05617	-0.00176	0.00030	-0.05621	-0.00180	0.00026
20	-0.05040	-0.00181	0.00031	-0.05044	-0.00186	0.00027
21	-0.04216	-0.00080	0.00014	-0.04218	-0.00082	0.00012
22	-0.04993	-0.00099	0.00017	-0.04996	-0.00101	0.00014
23	-0.05751	-0.00184	0.00031	-0.05755	-0.00189	0.00027
24	-0.05782	-0.00133	0.00023	-0.05786	-0.00137	0.00020
25	-0.06672	-0.00171	0.00029	-0.06676	-0.00175	0.00025
26	-0.05892	-0.00109	0.00019	-0.05895	-0.00111	0.00016
27	-0.03200	-0.00311	0.00085	-0.03203	-0.00313	0.00083
28	-0.03500	-0.00334	0.00091	-0.03503	-0.00337	0.00089
29	-0.02874	-0.00336	0.00092	-0.02876	-0.00339	0.00089
30	-0.03347	-0.00296	0.00081	-0.03349	-0.00299	0.00079
31	-0.03089	-0.00344	0.00094	-0.03092	-0.00347	0.00092
32	-0.03742	-0.00313	0.00086	-0.03745	-0.00316	0.00083
33	-0.04969	-0.00320	0.00088	-0.04972	-0.00323	0.00085
34	-0.03816	-0.00314	0.00086	-0.03819	-0.00317	0.00083
35	-0.04356	-0.00267	0.00073	-0.04358	-0.00269	0.00071
36	-0.04061	-0.00444	0.00122	-0.04065	-0.00447	0.00118
37	-0.02972	-0.00457	0.00125	-0.02976	-0.00461	0.00122
38	-0.02788	-0.00343	0.00094	-0.02790	-0.00346	0.00091
39	-0.02389	-0.00310	0.00085	-0.02392	-0.00312	0.00082
40	-0.03663	-0.00374	0.00102	-0.03666	-0.00377	0.00099
41	-0.04010	-0.00350	0.00096	-0.04013	-0.00353	0.00093
42	-0.04459	-0.00521	0.00143	-0.04463	-0.00525	0.00139
43	-0.02754	-0.00347	0.00095	-0.02757	-0.00350	0.00092
44	-0.03100	-0.00022	0.00763	-0.03112	-0.00034	0.00752
45	-0.02516	-0.00017	0.00577	-0.02525	-0.00026	0.00569
46	-0.03083	-0.00014	0.00487	-0.03090	-0.00022	0.00480
47	-0.02983	-0.00017	0.00566	-0.02992	-0.00025	0.00558
48	-0.02952	-0.00013	0.00432	-0.02958	-0.00019	0.00425
49	-0.04434	-0.00015	0.00495	-0.04441	-0.00022	0.00487
50	-0.03230	-0.00022	0.00737	-0.03241	-0.00033	0.00726
51	-0.02977	-0.00014	0.00460	-0.02984	-0.00020	0.00453
52	-0.03399	-0.00015	0.00505	-0.03407	-0.00022	0.00498
53	-0.02447	-0.00018	0.00609	-0.02457	-0.00027	0.00599
54	-0.03359	-0.00014	0.00493	-0.03367	-0.00022	0.00486
55	-0.03776	-0.00022	0.00756	-0.03787	-0.00034	0.00744
56	-0.03726	-0.00016	0.00540	-0.03734	-0.00024	0.00532
57	-0.02802	-0.00017	0.00576	-0.02811	-0.00026	0.00568
58	-0.03505	-0.00018	0.00604	-0.03514	-0.00027	0.00595
59	-0.03372	-0.00016	0.00557	-0.03381	-0.00025	0.00549
60	-0.03567	-0.00016	0.00555	-0.03575	-0.00025	0.00546
61	-0.05034	-0.00018	0.00610	-0.05044	-0.00027	0.00601
62	-0.03032	-0.00017	0.00580	-0.03040	-0.00026	0.00571
63	-0.37892	0.01368	0.00018	-0.37876	0.01384	0.00034
64	-0.39780	0.00645	0.00008	-0.39773	0.00652	0.00016
65	-0.44462	0.00170	0.00002	-0.44460	0.00172	0.00004
66	-0.30148	0.00006	0.00000	-0.30148	0.00006	0.00000
67	-0.37202	0.01589	0.00021	-0.37184	0.01607	0.00039
68	-0.41008	0.01106	0.00015	-0.40996	0.01118	0.00027
69	-0.22023	0.10370	0.00137	-0.21905	0.10488	0.00254
70	-0.33944	0.00081	0.00001	-0.33943	0.00082	0.00002
71	-0.41911	0.00107	0.00001	-0.41909	0.00108	0.00003
72	-0.31437	0.01468	0.00019	-0.31421	0.01484	0.00036
73	-0.27111	0.06620	0.00087	-0.27036	0.06695	0.00162
74	-0.40423	0.00228	0.00003	-0.40420	0.00230	0.00006
75	-0.40189	0.00033	0.00000	-0.40189	0.00033	0.00001
76	-0.41388	0.00010	0.00000	-0.41388	0.00010	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.8 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 2 in 2002

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.94809	-0.08016	0.01371	-1.95006	-0.08213	0.01174
2	-1.75784	-0.04759	0.00814	-1.75901	-0.04876	0.00697
3	-1.26010	-0.01015	0.00174	-1.26035	-0.01040	0.00149
4	-1.17663	-0.03419	0.00585	-1.17747	-0.03503	0.00501
5	-1.42204	-0.04512	0.00772	-1.42315	-0.04623	0.00661
6	-1.68234	-0.04132	0.00706	-1.68336	-0.04233	0.00605
7	-1.83584	-0.04769	0.00815	-1.83701	-0.04886	0.00698
8	-1.74409	-0.03427	0.00586	-1.74493	-0.03512	0.00502
9	-1.56525	-0.05258	0.00899	-1.56654	-0.05387	0.00770
10	-1.61359	-0.03225	0.00551	-1.61438	-0.03304	0.00472
11	-1.48508	-0.02016	0.00345	-1.48558	-0.02065	0.00295
12	-1.33822	-0.02843	0.00486	-1.33892	-0.02912	0.00416
13	-1.64904	-0.03058	0.00523	-1.64979	-0.03133	0.00448
14	-2.53067	-0.01832	0.00313	-2.53112	-0.01877	0.00268
15	-1.40959	-0.02939	0.00502	-1.41031	-0.03011	0.00430
16	-1.82592	-0.03251	0.00556	-1.82672	-0.03331	0.00476
17	-1.56585	-0.05785	0.00989	-1.56727	-0.05927	0.00847
18	-2.27149	-0.04373	0.00748	-2.27256	-0.04481	0.00640
19	-1.31680	-0.04115	0.00704	-1.31781	-0.04216	0.00603
20	-1.62681	-0.05858	0.01002	-1.62825	-0.06002	0.00858
21	-1.48062	-0.02805	0.00480	-1.48130	-0.02874	0.00411
22	-1.18197	-0.02342	0.00400	-1.18255	-0.02399	0.00343
23	-1.68045	-0.05383	0.00920	-1.68177	-0.05515	0.00788
24	-1.74394	-0.04021	0.00687	-1.74493	-0.04119	0.00589
25	-1.54112	-0.03944	0.00674	-1.54209	-0.04041	0.00577
26	-1.75163	-0.03232	0.00553	-1.75242	-0.03312	0.00473
27	-0.82137	-0.07976	0.02186	-0.82203	-0.08041	0.02120
28	-0.74583	-0.07112	0.01949	-0.74641	-0.07171	0.01891
29	-0.78954	-0.09236	0.02531	-0.79030	-0.09312	0.02455
30	-1.02296	-0.09061	0.02483	-1.02370	-0.09135	0.02409
31	-0.82095	-0.09149	0.02507	-0.82170	-0.09225	0.02432
32	-0.99612	-0.08345	0.02287	-0.99681	-0.08414	0.02218
33	-1.23675	-0.07975	0.02185	-1.23741	-0.08040	0.02120
34	-0.95980	-0.07898	0.02164	-0.96045	-0.07963	0.02099
35	-1.11134	-0.06807	0.01866	-1.11190	-0.06863	0.01809
36	-1.03709	-0.11326	0.03104	-1.03802	-0.11419	0.03011
37	-0.82822	-0.12745	0.03493	-0.82927	-0.12850	0.03388
38	-0.63683	-0.07847	0.02150	-0.63747	-0.07912	0.02086
39	-0.78899	-0.10232	0.02804	-0.78983	-0.10317	0.02720
40	-1.07727	-0.10995	0.03013	-1.07817	-0.11085	0.02923
41	-0.83814	-0.07311	0.02004	-0.83874	-0.07371	0.01943
42	-0.96368	-0.11263	0.03087	-0.96461	-0.11356	0.02994
43	-0.93155	-0.11745	0.03219	-0.93252	-0.11841	0.03122
44	-0.66965	-0.00484	0.16488	-0.67214	-0.00734	0.16239
45	-0.70224	-0.00473	0.16113	-0.70468	-0.00717	0.15869
46	-0.92827	-0.00431	0.14679	-0.93049	-0.00653	0.14457
47	-0.75860	-0.00423	0.14400	-0.76077	-0.00641	0.14182
48	-0.56474	-0.00243	0.08265	-0.56599	-0.00368	0.08140
49	-1.16809	-0.00383	0.13034	-1.17006	-0.00580	0.12837
50	-0.71649	-0.00481	0.16359	-0.71896	-0.00728	0.16111
51	-0.72490	-0.00329	0.11205	-0.72659	-0.00499	0.11035
52	-1.01771	-0.00444	0.15129	-1.01999	-0.00673	0.14900
53	-0.59044	-0.00431	0.14684	-0.59266	-0.00653	0.14462
54	-0.82379	-0.00355	0.12095	-0.82562	-0.00538	0.11912
55	-0.72908	-0.00429	0.14592	-0.73128	-0.00649	0.14372
56	-0.78783	-0.00336	0.11428	-0.78956	-0.00508	0.11256
57	-0.66407	-0.00401	0.13659	-0.66613	-0.00608	0.13453
58	-0.79612	-0.00403	0.13728	-0.79820	-0.00611	0.13521
59	-0.87782	-0.00426	0.14509	-0.88001	-0.00645	0.14289
60	-0.72036	-0.00329	0.11206	-0.72205	-0.00499	0.11036
61	-1.05395	-0.00375	0.12775	-1.05588	-0.00568	0.12582
62	-0.57575	-0.00323	0.11006	-0.57741	-0.00490	0.10840
63	-8.86427	0.32012	0.00422	-8.86065	0.32375	0.00784
64	-9.46430	0.15346	0.00202	-9.46256	0.15520	0.00376
65	-9.20139	0.03527	0.00046	-9.20099	0.03567	0.00086
66	-5.59418	0.00117	0.00002	-5.59417	0.00118	0.00003
67	-8.44069	0.36047	0.00475	-8.43661	0.36455	0.00883
68	-9.72547	0.26228	0.00345	-9.72250	0.26525	0.00642
69	-6.20516	2.92201	0.03849	-6.17209	2.95508	0.07156
70	-7.38319	0.01771	0.00023	-7.38299	0.01791	0.00043
71	-9.95260	0.02539	0.00033	-9.95232	0.02568	0.00062
72	-7.29130	0.34045	0.00448	-7.28745	0.34430	0.00834
73	-6.87180	1.67805	0.02210	-6.85281	1.69704	0.04110
74	-10.93747	0.06162	0.00081	-10.93677	0.06232	0.00151
75	-9.71086	0.00799	0.00011	-9.71077	0.00808	0.00020
76	-12.71088	0.00300	0.00004	-12.71085	0.00303	0.00007

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.9 The Elasticities with respect to Wages from Model 2 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	36.92392	-0.82399	-0.06672	36.88485	-0.86307	-0.10579
2	37.02467	-0.77442	-0.06270	36.98795	-0.81114	-0.09943
3	37.00029	-0.78553	-0.06360	36.96305	-0.82277	-0.10085
4	37.03825	-0.77610	-0.06284	37.00145	-0.81290	-0.09964
5	37.13146	-0.69054	-0.05591	37.09871	-0.72328	-0.08866
6	37.22209	-0.61895	-0.05012	37.19274	-0.64830	-0.07947
7	37.39368	-0.50490	-0.04088	37.36974	-0.52885	-0.06482
8	37.31374	-0.54516	-0.04414	37.28789	-0.57100	-0.06999
9	37.43980	-0.43986	-0.03562	37.41895	-0.46072	-0.05647
10	37.22618	-0.63174	-0.05115	37.19623	-0.66169	-0.08111
11	37.21179	-0.61573	-0.04986	37.18259	-0.64493	-0.07905
12	37.45109	-0.42702	-0.03458	37.43084	-0.44727	-0.05482
13	37.60032	-0.31394	-0.02542	37.58544	-0.32882	-0.04031
14	37.71350	-0.22479	-0.01820	37.70284	-0.23545	-0.02886
15	37.16541	-0.63324	-0.05127	37.13538	-0.66326	-0.08130
16	37.31573	-0.53978	-0.04371	37.29013	-0.56538	-0.06930
17	37.22563	-0.58901	-0.04769	37.19770	-0.61694	-0.07562
18	37.52478	-0.39172	-0.03172	37.50621	-0.41029	-0.05029
19	37.26389	-0.59611	-0.04827	37.23562	-0.62438	-0.07653
20	37.32944	-0.51672	-0.04184	37.30494	-0.54122	-0.06634
21	37.27962	-0.55984	-0.04533	37.25307	-0.58639	-0.07188
22	37.13507	-0.70179	-0.05682	37.10179	-0.73507	-0.09010
23	37.06053	-0.74261	-0.06013	37.02532	-0.77782	-0.09534
24	37.16529	-0.65072	-0.05269	37.13443	-0.68158	-0.08354
25	37.33110	-0.55266	-0.04475	37.30489	-0.57887	-0.07095
26	37.66929	-0.30440	-0.02465	37.65486	-0.31884	-0.03908
27	15.59158	0.16802	-0.18728	15.54088	0.11732	-0.23798
28	15.61015	0.18023	-0.20089	15.55577	0.12585	-0.25527
29	15.58946	0.19621	-0.21870	15.53026	0.13700	-0.27791
30	15.58197	0.23640	-0.26350	15.51063	0.16507	-0.33484
31	15.59748	0.21540	-0.24009	15.53249	0.15040	-0.30509
32	15.54772	0.16651	-0.18559	15.49748	0.11626	-0.23584
33	15.57156	0.16319	-0.18190	15.52231	0.11395	-0.23114
34	15.57747	0.13046	-0.14541	15.53811	0.09109	-0.18478
35	15.53433	0.10217	-0.11389	15.50350	0.07134	-0.14472
36	15.72664	0.37612	-0.41923	15.61315	0.26262	-0.53273
37	15.72478	0.38727	-0.43166	15.60792	0.27041	-0.54852
38	15.60873	0.28851	-0.32158	15.52167	0.20145	-0.40864
39	15.59376	0.26340	-0.29359	15.51427	0.18392	-0.37307
40	15.59173	0.26328	-0.29346	15.51229	0.18383	-0.37290
41	15.61173	0.28836	-0.32141	15.52471	0.20135	-0.40843
42	15.62560	0.30302	-0.33775	15.53416	0.21158	-0.42919
43	15.60052	0.28618	-0.31898	15.51416	0.19982	-0.40534
44	11.34157	-0.56146	-1.81468	11.53533	-0.36771	-1.62093
45	11.30671	-0.35991	-1.16324	11.43091	-0.23571	-1.03904
46	11.37678	-0.36190	-1.16968	11.50167	-0.23701	-1.04479
47	11.34925	-0.26941	-0.87076	11.44222	-0.17644	-0.77779
48	11.33984	-0.23342	-0.75443	11.42039	-0.15287	-0.67388
49	11.30865	-0.26327	-0.85091	11.39950	-0.17242	-0.76006
50	11.36043	-0.47701	-1.54172	11.52504	-0.31240	-1.37711
51	11.32471	-0.23468	-0.75851	11.40570	-0.15370	-0.67752
52	11.31849	-0.27504	-0.88894	11.41340	-0.18013	-0.79403
53	11.32111	-0.32912	-1.06374	11.43469	-0.21555	-0.95017
54	11.31026	-0.24199	-0.78212	11.39376	-0.15848	-0.69861
55	11.29389	-0.26333	-0.85110	11.38476	-0.17246	-0.76023
56	11.32470	-0.22053	-0.71276	11.40080	-0.14443	-0.63666
57	11.35137	-0.32599	-1.05361	11.46386	-0.21349	-0.94111
58	11.32942	-0.29097	-0.94044	11.42984	-0.19056	-0.84003
59	11.34162	-0.28991	-0.93701	11.44166	-0.18987	-0.83696
60	11.33062	-0.21487	-0.69446	11.40477	-0.14072	-0.62031
61	11.32790	-0.17788	-0.57491	11.38929	-0.11649	-0.51353
62	11.26194	-0.18573	-0.60030	11.32603	-0.12164	-0.53620
63	16.69675	0.58352	-0.02599	16.69744	0.58420	-0.02531
64	16.70679	0.58621	-0.02611	16.70748	0.58690	-0.02542
65	16.68314	0.57533	-0.02563	16.68381	0.57600	-0.02495
66	16.53162	0.44484	-0.01981	16.53214	0.44536	-0.01929
67	16.91766	0.81188	-0.03616	16.91861	0.81283	-0.03521
68	16.96896	0.89136	-0.03970	16.97000	0.89240	-0.03866
69	17.16681	1.10607	-0.04927	17.16810	1.10737	-0.04797
70	16.48438	0.38728	-0.01725	16.48483	0.38773	-0.01680
71	16.51035	0.39581	-0.01763	16.51081	0.39628	-0.01717
72	16.65428	0.52990	-0.02360	16.65491	0.53052	-0.02298
73	16.62717	0.50817	-0.02263	16.62777	0.50876	-0.02204
74	16.42097	0.33466	-0.01491	16.42136	0.33505	-0.01451
75	16.38794	0.29912	-0.01332	16.38829	0.29947	-0.01297
76	16.37895	0.27783	-0.01238	16.37927	0.27815	-0.01205

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.10 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.11242	-0.00251	-0.00020	0.11230	-0.00263	-0.00032
2	0.11184	-0.00234	-0.00019	0.11173	-0.00245	-0.00030
3	0.11222	-0.00238	-0.00019	0.11210	-0.00250	-0.00031
4	0.11180	-0.00234	-0.00019	0.11169	-0.00245	-0.00030
5	0.11265	-0.00209	-0.00017	0.11255	-0.00219	-0.00027
6	0.11306	-0.00188	-0.00015	0.11297	-0.00197	-0.00024
7	0.11276	-0.00152	-0.00012	0.11268	-0.00159	-0.00020
8	0.11348	-0.00166	-0.00013	0.11340	-0.00174	-0.00021
9	0.11419	-0.00134	-0.00011	0.11413	-0.00141	-0.00017
10	0.11253	-0.00191	-0.00015	0.11244	-0.00200	-0.00025
11	0.11285	-0.00187	-0.00015	0.11276	-0.00196	-0.00024
12	0.11371	-0.00130	-0.00010	0.11365	-0.00136	-0.00017
13	0.11425	-0.00095	-0.00008	0.11420	-0.00100	-0.00012
14	0.11495	-0.00069	-0.00006	0.11492	-0.00072	-0.00009
15	0.11342	-0.00193	-0.00016	0.11333	-0.00202	-0.00025
16	0.11329	-0.00164	-0.00013	0.11321	-0.00172	-0.00021
17	0.11386	-0.00180	-0.00015	0.11378	-0.00189	-0.00023
18	0.11319	-0.00118	-0.00010	0.11313	-0.00124	-0.00015
19	0.11231	-0.00180	-0.00015	0.11223	-0.00188	-0.00023
20	0.11357	-0.00157	-0.00013	0.11349	-0.00165	-0.00020
21	0.11367	-0.00171	-0.00014	0.11359	-0.00179	-0.00022
22	0.11178	-0.00211	-0.00017	0.11168	-0.00221	-0.00027
23	0.11216	-0.00225	-0.00018	0.11205	-0.00235	-0.00029
24	0.11281	-0.00198	-0.00016	0.11272	-0.00207	-0.00025
25	0.11209	-0.00166	-0.00013	0.11201	-0.00174	-0.00021
26	0.11007	-0.00089	-0.00007	0.11003	-0.00093	-0.00011
27	0.04754	0.00051	-0.00057	0.04738	0.00036	-0.00073
28	0.04705	0.00054	-0.00061	0.04689	0.00038	-0.00077
29	0.04773	0.00060	-0.00067	0.04755	0.00042	-0.00085
30	0.04810	0.00073	-0.00081	0.04788	0.00051	-0.00103
31	0.04647	0.00064	-0.00072	0.04628	0.00045	-0.00091
32	0.04755	0.00051	-0.00057	0.04740	0.00036	-0.00072
33	0.04785	0.00050	-0.00056	0.04770	0.00035	-0.00071
34	0.04755	0.00040	-0.00044	0.04743	0.00028	-0.00056
35	0.04729	0.00031	-0.00035	0.04720	0.00022	-0.00044
36	0.04820	0.00115	-0.00129	0.04786	0.00080	-0.00163
37	0.04777	0.00118	-0.00131	0.04741	0.00082	-0.00167
38	0.04723	0.00087	-0.00097	0.04697	0.00061	-0.00124
39	0.04762	0.00080	-0.00090	0.04738	0.00056	-0.00114
40	0.04799	0.00081	-0.00090	0.04775	0.00057	-0.00115
41	0.04786	0.00088	-0.00099	0.04759	0.00062	-0.00125
42	0.04804	0.00093	-0.00104	0.04776	0.00065	-0.00132
43	0.04830	0.00089	-0.00099	0.04803	0.00062	-0.00125
44	0.03371	-0.00167	-0.00539	0.03428	-0.00109	-0.00482
45	0.03373	-0.00107	-0.00347	0.03410	-0.00070	-0.00310
46	0.03451	-0.00110	-0.00355	0.03489	-0.00072	-0.00317
47	0.03472	-0.00082	-0.00266	0.03501	-0.00054	-0.00238
48	0.03491	-0.00072	-0.00232	0.03515	-0.00047	-0.00207
49	0.03421	-0.00080	-0.00257	0.03449	-0.00052	-0.00230
50	0.03400	-0.00143	-0.00461	0.03449	-0.00093	-0.00412
51	0.03462	-0.00072	-0.00232	0.03487	-0.00047	-0.00207
52	0.03439	-0.00084	-0.00270	0.03468	-0.00055	-0.00241
53	0.03410	-0.00099	-0.00320	0.03444	-0.00065	-0.00286
54	0.03441	-0.00074	-0.00238	0.03466	-0.00048	-0.00213
55	0.03412	-0.00080	-0.00257	0.03439	-0.00052	-0.00230
56	0.03480	-0.00068	-0.00219	0.03504	-0.00044	-0.00196
57	0.03445	-0.00099	-0.00320	0.03480	-0.00065	-0.00286
58	0.03437	-0.00088	-0.00285	0.03468	-0.00058	-0.00255
59	0.03455	-0.00088	-0.00285	0.03486	-0.00058	-0.00255
60	0.03487	-0.00066	-0.00214	0.03510	-0.00043	-0.00191
61	0.03486	-0.00055	-0.00177	0.03505	-0.00036	-0.00158
62	0.03448	-0.00057	-0.00184	0.03468	-0.00037	-0.00164
63	0.04999	0.00175	-0.00008	0.05000	0.00175	-0.00008
64	0.05065	0.00178	-0.00008	0.05065	0.00178	-0.00008
65	0.05017	0.00173	-0.00008	0.05017	0.00173	-0.00008
66	0.05008	0.00135	-0.00006	0.05009	0.00135	-0.00006
67	0.05147	0.00247	-0.00011	0.05147	0.00247	-0.00011
68	0.05114	0.00269	-0.00012	0.05114	0.00269	-0.00012
69	0.05231	0.00337	-0.00015	0.05231	0.00337	-0.00015
70	0.04958	0.00116	-0.00005	0.04959	0.00117	-0.00005
71	0.04978	0.00119	-0.00005	0.04978	0.00119	-0.00005
72	0.05043	0.00160	-0.00007	0.05044	0.00161	-0.00007
73	0.05013	0.00153	-0.00007	0.05013	0.00153	-0.00007
74	0.04992	0.00102	-0.00005	0.04993	0.00102	-0.00004
75	0.04976	0.00091	-0.00004	0.04977	0.00091	-0.00004
76	0.04889	0.00083	-0.00004	0.04889	0.00083	-0.00004

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.11 The Elasticities with respect to Distances from Model 2 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.84311	0.01881	0.00152	-0.84222	0.01971	0.00242
2	-0.95576	0.01999	0.00162	-0.95481	0.02094	0.00257
3	-0.92860	0.01971	0.00160	-0.92766	0.02065	0.00253
4	-0.96891	0.02030	0.00164	-0.96795	0.02127	0.00261
5	-1.09412	0.02035	0.00165	-1.09315	0.02131	0.00261
6	-1.22332	0.02034	0.00165	-1.22235	0.02131	0.00261
7	-1.48566	0.02006	0.00162	-1.48471	0.02101	0.00258
8	-1.36913	0.02000	0.00162	-1.36818	0.02095	0.00257
9	-1.60659	0.01887	0.00153	-1.60569	0.01977	0.00242
10	-1.21935	0.02069	0.00168	-1.21837	0.02167	0.00266
11	-1.21468	0.02010	0.00163	-1.21372	0.02105	0.00258
12	-1.63434	0.01863	0.00151	-1.63345	0.01952	0.00239
13	-1.98136	0.01654	0.00134	-1.98057	0.01733	0.00212
14	-2.34308	0.01397	0.00113	-2.34241	0.01463	0.00179
15	-1.15800	0.01973	0.00160	-1.15707	0.02067	0.00253
16	-1.37546	0.01990	0.00161	-1.37452	0.02084	0.00255
17	-1.24714	0.01973	0.00160	-1.24620	0.02067	0.00253
18	-1.75965	0.01837	0.00149	-1.75878	0.01924	0.00236
19	-1.27942	0.02047	0.00166	-1.27845	0.02144	0.00263
20	-1.41012	0.01952	0.00158	-1.40920	0.02044	0.00251
21	-1.32298	0.01987	0.00161	-1.32204	0.02081	0.00255
22	-1.09207	0.02064	0.00167	-1.09109	0.02162	0.00265
23	-1.00200	0.02008	0.00163	-1.00104	0.02103	0.00258
24	-1.14766	0.02009	0.00163	-1.14670	0.02105	0.00258
25	-1.37917	0.02042	0.00165	-1.37821	0.02139	0.00262
26	-2.06879	0.01672	0.00135	-2.06800	0.01751	0.00215
27	-1.64369	-0.01771	0.01974	-1.63835	-0.01237	0.02509
28	-1.58033	-0.01825	0.02034	-1.57482	-0.01274	0.02584
29	-1.45705	-0.01834	0.02044	-1.45152	-0.01280	0.02597
30	-1.22032	-0.01851	0.02064	-1.21473	-0.01293	0.02622
31	-1.35086	-0.01866	0.02079	-1.34523	-0.01303	0.02642
32	-1.60715	-0.01721	0.01918	-1.60195	-0.01202	0.02438
33	-1.65663	-0.01736	0.01935	-1.65139	-0.01212	0.02459
34	-1.92017	-0.01608	0.01792	-1.91532	-0.01123	0.02278
35	-2.14660	-0.01412	0.01574	-2.14234	-0.00986	0.02000
36	-0.76059	-0.01819	0.02028	-0.75510	-0.01270	0.02576
37	-0.71651	-0.01765	0.01967	-0.71118	-0.01232	0.02499
38	-0.99295	-0.01835	0.02046	-0.98741	-0.01282	0.02600
39	-1.09542	-0.01850	0.02062	-1.08984	-0.01292	0.02621
40	-1.09419	-0.01848	0.02059	-1.08861	-0.01290	0.02617
41	-0.99751	-0.01842	0.02054	-0.99195	-0.01287	0.02610
42	-0.94716	-0.01837	0.02047	-0.94162	-0.01283	0.02602
43	-0.99576	-0.01827	0.02036	-0.99025	-0.01275	0.02587

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.59950	0.02968	0.09592	-0.60974	0.01944	0.08568
45	-0.79163	0.02520	0.08144	-0.80032	0.01650	0.07275
46	-0.86289	0.02745	0.08872	-0.87237	0.01798	0.07924
47	-1.03063	0.02447	0.07907	-1.03907	0.01602	0.07063
48	-1.12609	0.02318	0.07492	-1.13409	0.01518	0.06692
49	-1.00349	0.02336	0.07551	-1.01155	0.01530	0.06744
50	-0.69206	0.02906	0.09392	-0.70208	0.01903	0.08389
51	-1.10561	0.02291	0.07405	-1.11352	0.01501	0.06615
52	-0.98293	0.02389	0.07720	-0.99117	0.01564	0.06896
53	-0.86363	0.02511	0.08115	-0.87230	0.01644	0.07248
54	-1.06707	0.02283	0.07379	-1.07495	0.01495	0.06591
55	-0.98753	0.02303	0.07442	-0.99548	0.01508	0.06647
56	-1.15302	0.02245	0.07257	-1.16077	0.01470	0.06482
57	-0.90221	0.02591	0.08374	-0.91115	0.01697	0.07480
58	-0.95518	0.02453	0.07929	-0.96364	0.01607	0.07082
59	-0.97082	0.02482	0.08021	-0.97938	0.01625	0.07164
60	-1.17945	0.02237	0.07229	-1.18717	0.01465	0.06457
61	-1.32664	0.02083	0.06733	-1.33382	0.01364	0.06014
62	-1.22059	0.02013	0.06506	-1.22754	0.01318	0.05811
63	-1.98274	-0.06929	0.00309	-1.98282	-0.06937	0.00301
64	-1.98699	-0.06972	0.00311	-1.98707	-0.06980	0.00302
65	-1.99067	-0.06865	0.00306	-1.99075	-0.06873	0.00298
66	-2.21686	-0.05965	0.00266	-2.21693	-0.05972	0.00259
67	-1.65545	-0.07945	0.00354	-1.65555	-0.07954	0.00345
68	-1.53265	-0.08051	0.00359	-1.53274	-0.08060	0.00349
69	-1.30283	-0.08394	0.00374	-1.30293	-0.08404	0.00364
70	-2.36191	-0.05549	0.00247	-2.36198	-0.05555	0.00241
71	-2.35989	-0.05658	0.00252	-2.35995	-0.05664	0.00245
72	-2.08871	-0.06646	0.00296	-2.08879	-0.06654	0.00288
73	-2.12308	-0.06489	0.00289	-2.12316	-0.06496	0.00281
74	-2.49226	-0.05079	0.00226	-2.49232	-0.05085	0.00220
75	-2.60387	-0.04753	0.00212	-2.60393	-0.04758	0.00206
76	-2.68806	-0.04560	0.00203	-2.68811	-0.04565	0.00198

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.12 The Elasticities with respect to Wages from Model 3 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	25.25322	-0.18170	-0.05926	25.23717	-0.19774	-0.07531
2	25.29464	-0.17475	-0.05700	25.27921	-0.19018	-0.07243
3	25.15309	-0.30736	-0.10025	25.12595	-0.33451	-0.12739
4	25.25518	-0.22450	-0.07322	25.23536	-0.24432	-0.09305
5	25.32393	-0.16090	-0.05248	25.30973	-0.17510	-0.06669
6	25.39416	-0.10350	-0.03376	25.38502	-0.11264	-0.04290
7	25.43048	-0.10596	-0.03456	25.42112	-0.11532	-0.04392
8	25.39049	-0.11920	-0.03888	25.37997	-0.12972	-0.04940
9	25.43950	-0.08419	-0.02746	25.43206	-0.09163	-0.03489
10	25.29856	-0.21047	-0.06865	25.27998	-0.22906	-0.08723
11	25.24098	-0.24757	-0.08075	25.21912	-0.26943	-0.10261
12	25.39509	-0.12755	-0.04160	25.38382	-0.13881	-0.05287
13	25.45093	-0.09607	-0.03134	25.44245	-0.10455	-0.03982
14	25.49985	-0.06334	-0.02066	25.49426	-0.06893	-0.02625
15	25.27263	-0.19647	-0.06408	25.25528	-0.21382	-0.08143
16	25.36201	-0.14540	-0.04743	25.34917	-0.15824	-0.06026
17	25.37203	-0.10785	-0.03518	25.36250	-0.11737	-0.04470
18	25.48919	-0.05932	-0.01935	25.48395	-0.06456	-0.02459
19	25.33072	-0.17972	-0.05862	25.31485	-0.19559	-0.07449
20	25.37003	-0.13108	-0.04275	25.35846	-0.14266	-0.05433
21	25.34694	-0.14965	-0.04881	25.33373	-0.16287	-0.06203
22	25.27063	-0.22422	-0.07313	25.25083	-0.24402	-0.09293
23	25.32146	-0.15066	-0.04914	25.30816	-0.16397	-0.06244
24	25.35772	-0.12308	-0.04014	25.34685	-0.13395	-0.05101
25	25.40431	-0.12213	-0.03983	25.39353	-0.13291	-0.05062
26	25.51831	-0.06873	-0.02242	25.51224	-0.07480	-0.02849
27	16.88512	0.06255	-0.17961	16.83969	0.01713	-0.22504
28	16.89849	0.06898	-0.19808	16.84839	0.01889	-0.24817
29	16.85616	0.06665	-0.19138	16.80776	0.01825	-0.23977
30	16.82744	0.08995	-0.25829	16.76212	0.02463	-0.32361
31	16.85830	0.08097	-0.23251	16.79950	0.02217	-0.29131
32	16.83531	0.05893	-0.16923	16.79252	0.01614	-0.21203
33	16.85772	0.05173	-0.14854	16.82016	0.01417	-0.18611
34	16.88574	0.03760	-0.10796	16.85844	0.01030	-0.13527
35	16.86024	0.02830	-0.08127	16.83969	0.00775	-0.10182
36	16.88961	0.14671	-0.42128	16.78308	0.04017	-0.52781
37	16.84594	0.11724	-0.33664	16.76081	0.03210	-0.42178
38	16.85386	0.14401	-0.41352	16.74929	0.03943	-0.51810
39	16.82117	0.10026	-0.28791	16.74836	0.02746	-0.36071
40	16.84405	0.12522	-0.35957	16.75312	0.03429	-0.45050
41	16.84377	0.13049	-0.37469	16.74901	0.03573	-0.46944
42	16.82372	0.11130	-0.31959	16.74290	0.03048	-0.40040
43	16.80694	0.10350	-0.29721	16.73178	0.02834	-0.37237
44	12.32787	-0.66336	-1.67301	12.46901	-0.52222	-1.53187
45	12.32873	-0.40446	-1.02007	12.41478	-0.31841	-0.93401
46	12.41392	-0.39793	-1.00359	12.49859	-0.31326	-0.91892
47	12.37170	-0.30916	-0.77970	12.43748	-0.24338	-0.71392
48	12.22767	-0.40363	-1.01797	12.31355	-0.31775	-0.93209
49	12.38938	-0.24046	-0.60646	12.44054	-0.18930	-0.55529
50	12.37143	-0.54820	-1.38257	12.48807	-0.43156	-1.26593
51	12.33577	-0.28041	-0.70719	12.39543	-0.22074	-0.64753
52	12.31310	-0.34032	-0.85830	12.38551	-0.26791	-0.78589
53	12.25619	-0.45913	-1.15792	12.35388	-0.36144	-1.06024
54	12.30734	-0.30103	-0.75920	12.37139	-0.23698	-0.69515
55	12.30076	-0.31303	-0.78948	12.36737	-0.24643	-0.72288
56	12.28141	-0.31930	-0.80527	12.34934	-0.25136	-0.73733
57	12.36075	-0.38416	-0.96886	12.44249	-0.30242	-0.88712
58	12.35051	-0.33224	-0.83791	12.42120	-0.26155	-0.76722
59	12.34933	-0.34557	-0.87152	12.42286	-0.27204	-0.79800
60	12.35412	-0.24687	-0.62262	12.40664	-0.19435	-0.57010
61	12.37448	-0.18318	-0.46198	12.41345	-0.14420	-0.42300
62	12.28259	-0.21165	-0.53378	12.32762	-0.16662	-0.48875
63	14.47711	0.60386	-0.02404	14.47974	0.60649	-0.02142
64	14.60189	0.72232	-0.02876	14.60503	0.72546	-0.02562
65	14.53373	0.66515	-0.02648	14.53662	0.66804	-0.02359
66	14.65369	0.80321	-0.03198	14.65718	0.80670	-0.02849
67	14.85628	0.98946	-0.03940	14.86058	0.99376	-0.03510
68	14.93204	1.08947	-0.04338	14.93677	1.09420	-0.03864
69	14.94697	1.11892	-0.04455	14.95183	1.12379	-0.03969
70	14.31927	0.45991	-0.01831	14.32126	0.46191	-0.01631
71	14.30768	0.43331	-0.01725	14.30956	0.43519	-0.01537
72	14.45336	0.57051	-0.02272	14.45584	0.57299	-0.02024
73	14.37980	0.50158	-0.01997	14.38198	0.50376	-0.01779
74	14.13953	0.28946	-0.01153	14.14079	0.29072	-0.01027
75	14.12386	0.27163	-0.01082	14.12504	0.27281	-0.00963
76	14.09927	0.23645	-0.00941	14.10030	0.23748	-0.00839

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.13 The Elasticities with respect to Employment Rates from Model 3 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.07540	-0.00054	-0.00018	0.07536	-0.00059	-0.00022
2	0.07493	-0.00052	-0.00017	0.07489	-0.00056	-0.00021
3	0.07481	-0.00091	-0.00030	0.07473	-0.00099	-0.00038
4	0.07476	-0.00066	-0.00022	0.07471	-0.00072	-0.00028
5	0.07534	-0.00048	-0.00016	0.07530	-0.00052	-0.00020
6	0.07565	-0.00031	-0.00010	0.07562	-0.00034	-0.00013
7	0.07520	-0.00031	-0.00010	0.07518	-0.00034	-0.00013
8	0.07573	-0.00036	-0.00012	0.07570	-0.00039	-0.00015
9	0.07609	-0.00025	-0.00008	0.07607	-0.00027	-0.00010
10	0.07500	-0.00062	-0.00020	0.07495	-0.00068	-0.00026
11	0.07507	-0.00074	-0.00024	0.07501	-0.00080	-0.00031
12	0.07562	-0.00038	-0.00012	0.07559	-0.00041	-0.00016
13	0.07584	-0.00029	-0.00009	0.07581	-0.00031	-0.00012
14	0.07623	-0.00019	-0.00006	0.07621	-0.00021	-0.00008
15	0.07564	-0.00059	-0.00019	0.07559	-0.00064	-0.00024
16	0.07552	-0.00043	-0.00014	0.07548	-0.00047	-0.00018
17	0.07611	-0.00032	-0.00011	0.07608	-0.00035	-0.00013
18	0.07540	-0.00018	-0.00006	0.07539	-0.00019	-0.00007
19	0.07487	-0.00053	-0.00017	0.07483	-0.00058	-0.00022
20	0.07569	-0.00039	-0.00013	0.07566	-0.00043	-0.00016
21	0.07580	-0.00045	-0.00015	0.07576	-0.00049	-0.00019
22	0.07460	-0.00066	-0.00022	0.07454	-0.00072	-0.00027
23	0.07515	-0.00045	-0.00015	0.07511	-0.00049	-0.00019
24	0.07549	-0.00037	-0.00012	0.07545	-0.00040	-0.00015
25	0.07481	-0.00036	-0.00012	0.07477	-0.00039	-0.00015
26	0.07313	-0.00020	-0.00006	0.07311	-0.00021	-0.00008
27	0.05049	0.00019	-0.00054	0.05035	0.00005	-0.00067
28	0.04995	0.00020	-0.00059	0.04981	0.00006	-0.00073
29	0.05062	0.00020	-0.00057	0.05047	0.00005	-0.00072
30	0.05094	0.00027	-0.00078	0.05075	0.00007	-0.00098
31	0.04926	0.00024	-0.00068	0.04908	0.00006	-0.00085
32	0.05050	0.00018	-0.00051	0.05037	0.00005	-0.00064
33	0.05080	0.00016	-0.00045	0.05069	0.00004	-0.00056
34	0.05055	0.00011	-0.00032	0.05047	0.00003	-0.00040
35	0.05034	0.00008	-0.00024	0.05027	0.00002	-0.00030
36	0.05077	0.00044	-0.00127	0.05045	0.00012	-0.00159
37	0.05019	0.00035	-0.00100	0.04993	0.00010	-0.00126
38	0.05001	0.00043	-0.00123	0.04970	0.00012	-0.00154
39	0.05038	0.00030	-0.00086	0.05016	0.00008	-0.00108
40	0.05085	0.00038	-0.00109	0.05057	0.00010	-0.00136
41	0.05064	0.00039	-0.00113	0.05036	0.00011	-0.00141
42	0.05072	0.00034	-0.00096	0.05048	0.00009	-0.00121
43	0.05103	0.00031	-0.00090	0.05080	0.00009	-0.00113
44	0.03593	-0.00193	-0.00488	0.03634	-0.00152	-0.00446
45	0.03607	-0.00118	-0.00298	0.03632	-0.00093	-0.00273
46	0.03693	-0.00118	-0.00299	0.03718	-0.00093	-0.00273
47	0.03712	-0.00093	-0.00234	0.03732	-0.00073	-0.00214
48	0.03691	-0.00122	-0.00307	0.03717	-0.00096	-0.00281
49	0.03676	-0.00071	-0.00180	0.03691	-0.00056	-0.00165
50	0.03631	-0.00161	-0.00406	0.03665	-0.00127	-0.00372
51	0.03698	-0.00084	-0.00212	0.03716	-0.00066	-0.00194
52	0.03669	-0.00101	-0.00256	0.03691	-0.00080	-0.00234
53	0.03620	-0.00136	-0.00342	0.03649	-0.00107	-0.00313
54	0.03672	-0.00090	-0.00227	0.03691	-0.00071	-0.00207
55	0.03644	-0.00093	-0.00234	0.03664	-0.00073	-0.00214
56	0.03702	-0.00096	-0.00243	0.03722	-0.00076	-0.00222
57	0.03679	-0.00114	-0.00288	0.03704	-0.00090	-0.00264
58	0.03675	-0.00099	-0.00249	0.03696	-0.00078	-0.00228
59	0.03690	-0.00103	-0.00260	0.03712	-0.00081	-0.00238
60	0.03729	-0.00075	-0.00188	0.03745	-0.00059	-0.00172
61	0.03735	-0.00055	-0.00139	0.03747	-0.00044	-0.00128
62	0.03688	-0.00064	-0.00160	0.03701	-0.00050	-0.00147
63	0.04251	0.00177	-0.00007	0.04252	0.00178	-0.00006
64	0.04341	0.00215	-0.00009	0.04342	0.00216	-0.00008
65	0.04286	0.00196	-0.00008	0.04287	0.00197	-0.00007
66	0.04354	0.00239	-0.00010	0.04355	0.00240	-0.00008
67	0.04433	0.00295	-0.00012	0.04434	0.00297	-0.00010
68	0.04413	0.00322	-0.00013	0.04415	0.00323	-0.00011
69	0.04467	0.00334	-0.00013	0.04468	0.00336	-0.00012
70	0.04224	0.00136	-0.00005	0.04225	0.00136	-0.00005
71	0.04231	0.00128	-0.00005	0.04232	0.00129	-0.00005
72	0.04293	0.00169	-0.00007	0.04293	0.00170	-0.00006
73	0.04252	0.00148	-0.00006	0.04252	0.00149	-0.00005
74	0.04216	0.00086	-0.00003	0.04216	0.00087	-0.00003
75	0.04206	0.00081	-0.00003	0.04207	0.00081	-0.00003
76	0.04127	0.00069	-0.00003	0.04127	0.00070	-0.00002

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.14 The Elasticities with respect to Distances from Model 3 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.61084	0.00440	0.00143	-0.61046	0.00478	0.00182
2	-0.69171	0.00478	0.00156	-0.69129	0.00520	0.00198
3	-0.66873	0.00817	0.00267	-0.66801	0.00889	0.00339
4	-0.69988	0.00622	0.00203	-0.69933	0.00677	0.00258
5	-0.79048	0.00502	0.00164	-0.79004	0.00547	0.00208
6	-0.88412	0.00360	0.00118	-0.88380	0.00392	0.00149
7	-1.07032	0.00446	0.00145	-1.06993	0.00485	0.00185
8	-0.98693	0.00463	0.00151	-0.98652	0.00504	0.00192
9	-1.15642	0.00383	0.00125	-1.15609	0.00417	0.00159
10	-0.87784	0.00730	0.00238	-0.87719	0.00795	0.00303
11	-0.87282	0.00856	0.00279	-0.87206	0.00932	0.00355
12	-1.17399	0.00590	0.00192	-1.17347	0.00642	0.00244
13	-1.42074	0.00536	0.00175	-1.42026	0.00584	0.00222
14	-1.67828	0.00417	0.00136	-1.67792	0.00454	0.00173
15	-0.83418	0.00648	0.00212	-0.83361	0.00706	0.00269
16	-0.99033	0.00568	0.00185	-0.98983	0.00618	0.00235
17	-0.90046	0.00383	0.00125	-0.90012	0.00417	0.00159
18	-1.26620	0.00295	0.00096	-1.26594	0.00321	0.00122
19	-0.92132	0.00654	0.00213	-0.92074	0.00711	0.00271
20	-1.01523	0.00525	0.00171	-1.01477	0.00571	0.00217
21	-0.95290	0.00563	0.00184	-0.95240	0.00612	0.00233
22	-0.78727	0.00699	0.00228	-0.78665	0.00760	0.00290
23	-0.72524	0.00432	0.00141	-0.72486	0.00470	0.00179
24	-0.82951	0.00403	0.00131	-0.82916	0.00438	0.00167
25	-0.99425	0.00478	0.00156	-0.99382	0.00520	0.00198
26	-1.48463	0.00400	0.00130	-1.48428	0.00435	0.00166
27	-1.88570	-0.00699	0.02006	-1.88063	-0.00191	0.02513
28	-1.81229	-0.00740	0.02124	-1.80691	-0.00203	0.02662
29	-1.66894	-0.00660	0.01895	-1.66415	-0.00181	0.02374
30	-1.39607	-0.00746	0.02143	-1.39065	-0.00204	0.02685
31	-1.54670	-0.00743	0.02133	-1.54131	-0.00203	0.02673
32	-1.84352	-0.00645	0.01853	-1.83884	-0.00177	0.02322
33	-1.89990	-0.00583	0.01674	-1.89566	-0.00160	0.02097
34	-2.20497	-0.00491	0.01410	-2.20140	-0.00134	0.01766
35	-2.46809	-0.00414	0.01190	-2.46508	-0.00113	0.01491
36	-0.86531	-0.00752	0.02158	-0.85985	-0.00206	0.02704
37	-0.81315	-0.00566	0.01625	-0.80904	-0.00155	0.02036
38	-1.13578	-0.00970	0.02787	-1.12873	-0.00266	0.03491
39	-1.25177	-0.00746	0.02142	-1.24635	-0.00204	0.02684
40	-1.25223	-0.00931	0.02673	-1.24547	-0.00255	0.03349
41	-1.14010	-0.00883	0.02536	-1.13369	-0.00242	0.03178
42	-1.08030	-0.00715	0.02052	-1.07511	-0.00196	0.02571
43	-1.13643	-0.00700	0.02010	-1.13135	-0.00192	0.02518
44	-0.69031	0.03715	0.09368	-0.69821	0.02924	0.08578
45	-0.91441	0.03000	0.07566	-0.92079	0.02362	0.06927
46	-0.99744	0.03197	0.08064	-1.00424	0.02517	0.07383
47	-1.19015	0.02974	0.07501	-1.19648	0.02341	0.06868
48	-1.28631	0.04246	0.10709	-1.29535	0.03343	0.09805
49	-1.16463	0.02260	0.05701	-1.16944	0.01779	0.05220
50	-0.79837	0.03538	0.08922	-0.80590	0.02785	0.08169
51	-1.27579	0.02900	0.07314	-1.28196	0.02283	0.06697
52	-1.13276	0.03131	0.07896	-1.13942	0.02465	0.07230
53	-0.99045	0.03710	0.09357	-0.99835	0.02921	0.08568
54	-1.23006	0.03009	0.07588	-1.23646	0.02368	0.06948
55	-1.13940	0.02900	0.07313	-1.14557	0.02283	0.06696
56	-1.32464	0.03444	0.08685	-1.33197	0.02711	0.07953
57	-1.04074	0.03235	0.08158	-1.04762	0.02546	0.07469
58	-1.10306	0.02967	0.07484	-1.10937	0.02336	0.06852
59	-1.11981	0.03134	0.07903	-1.12648	0.02467	0.07236
60	-1.36231	0.02722	0.06866	-1.36810	0.02143	0.06287
61	-1.53521	0.02273	0.05731	-1.54004	0.01789	0.05248
62	-1.41021	0.02430	0.06129	-1.41538	0.01913	0.05611
63	-1.82119	-0.07596	0.00302	-1.82152	-0.07629	0.00269
64	-1.83971	-0.09101	0.00362	-1.84011	-0.09140	0.00323
65	-1.83712	-0.08408	0.00335	-1.83748	-0.08444	0.00298
66	-2.08165	-0.11410	0.00454	-2.08215	-0.11460	0.00405
67	-1.54001	-0.10257	0.00408	-1.54046	-0.10301	0.00364
68	-1.42871	-0.10424	0.00415	-1.42917	-0.10469	0.00370
69	-1.20168	-0.08996	0.00358	-1.20207	-0.09035	0.00319
70	-2.17345	-0.06981	0.00278	-2.17375	-0.07011	0.00248
71	-2.16642	-0.06561	0.00261	-2.16670	-0.06589	0.00233
72	-1.92026	-0.07580	0.00302	-1.92058	-0.07613	0.00269
73	-1.94509	-0.06785	0.00270	-1.94539	-0.06814	0.00241
74	-2.27336	-0.04654	0.00185	-2.27356	-0.04674	0.00165
75	-2.37731	-0.04572	0.00182	-2.37751	-0.04592	0.00162
76	-2.45125	-0.04111	0.00164	-2.45143	-0.04129	0.00146

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.15 The Elasticities with respect to Food Expense Shares from Model 3 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.37142	0.00267	0.00087	-0.37118	0.00291	0.00111
2	-0.39313	0.00272	0.00089	-0.39289	0.00296	0.00113
3	-0.28608	0.00350	0.00114	-0.28577	0.00380	0.00145
4	-0.45647	0.00406	0.00132	-0.45612	0.00442	0.00168
5	-0.48488	0.00308	0.00100	-0.48461	0.00335	0.00128
6	-0.65930	0.00269	0.00088	-0.65906	0.00292	0.00111
7	-0.74924	0.00312	0.00102	-0.74897	0.00340	0.00129
8	-0.50906	0.00239	0.00078	-0.50885	0.00260	0.00099
9	-0.65102	0.00215	0.00070	-0.65083	0.00234	0.00089
10	-0.47837	0.00398	0.00130	-0.47802	0.00433	0.00165
11	-0.45554	0.00447	0.00146	-0.45515	0.00486	0.00185
12	-0.61868	0.00311	0.00101	-0.61841	0.00338	0.00129
13	-0.48416	0.00183	0.00060	-0.48400	0.00199	0.00076
14	-0.44941	0.00112	0.00036	-0.44931	0.00121	0.00046
15	-0.55612	0.00432	0.00141	-0.55573	0.00470	0.00179
16	-0.59719	0.00342	0.00112	-0.59689	0.00373	0.00142
17	-0.75684	0.00322	0.00105	-0.75656	0.00350	0.00133
18	-0.52706	0.00123	0.00040	-0.52695	0.00133	0.00051
19	-0.55273	0.00392	0.00128	-0.55239	0.00427	0.00163
20	-0.37653	0.00195	0.00063	-0.37636	0.00212	0.00081
21	-0.49664	0.00293	0.00096	-0.49638	0.00319	0.00122
22	-0.48165	0.00427	0.00139	-0.48127	0.00465	0.00177
23	-0.51666	0.00307	0.00100	-0.51639	0.00335	0.00127
24	-0.51254	0.00249	0.00081	-0.51232	0.00271	0.00103
25	-0.48117	0.00231	0.00075	-0.48096	0.00252	0.00096
26	-0.64010	0.00172	0.00056	-0.63994	0.00188	0.00071
27	-0.41463	-0.00154	0.00441	-0.41352	-0.00042	0.00553
28	-0.32749	-0.00134	0.00384	-0.32652	-0.00037	0.00481
29	-0.36511	-0.00144	0.00415	-0.36406	-0.00040	0.00519
30	-0.46264	-0.00247	0.00710	-0.46084	-0.00068	0.00890
31	-0.37935	-0.00182	0.00523	-0.37802	-0.00050	0.00656
32	-0.46793	-0.00164	0.00470	-0.46674	-0.00045	0.00589
33	-0.39652	-0.00122	0.00349	-0.39563	-0.00033	0.00438
34	-0.44836	-0.00100	0.00287	-0.44764	-0.00027	0.00359
35	-0.57323	-0.00096	0.00276	-0.57253	-0.00026	0.00346
36	-0.33000	-0.00287	0.00823	-0.32792	-0.00078	0.01031
37	-0.55454	-0.00386	0.01108	-0.55174	-0.00106	0.01388
38	-0.27473	-0.00235	0.00674	-0.27303	-0.00064	0.00845
39	-0.39080	-0.00233	0.00669	-0.38910	-0.00064	0.00838
40	-0.33760	-0.00251	0.00721	-0.33578	-0.00069	0.00903
41	-0.52525	-0.00407	0.01168	-0.52229	-0.00111	0.01464
42	-0.41476	-0.00274	0.00788	-0.41276	-0.00075	0.00987
43	-0.34774	-0.00214	0.00615	-0.34619	-0.00059	0.00770
44	-0.33731	0.01815	0.04578	-0.34117	0.01429	0.04191
45	-0.34592	0.01135	0.02862	-0.34833	0.00893	0.02621
46	-0.39744	0.01274	0.03213	-0.40015	0.01003	0.02942
47	-0.36843	0.00921	0.02322	-0.37039	0.00725	0.02126
48	-0.23294	0.00769	0.01939	-0.23457	0.00605	0.01776
49	-0.69838	0.01355	0.03419	-0.70126	0.01067	0.03130
50	-0.29792	0.01320	0.03329	-0.30073	0.01039	0.03049
51	-0.34770	0.00790	0.01993	-0.34938	0.00622	0.01825
52	-0.30589	0.00845	0.02132	-0.30769	0.00666	0.01952
53	-0.27535	0.01031	0.02601	-0.27754	0.00812	0.02382
54	-0.29761	0.00728	0.01836	-0.29916	0.00573	0.01681
55	-0.33738	0.00859	0.02165	-0.33921	0.00676	0.01983
56	-0.28905	0.00751	0.01895	-0.29065	0.00592	0.01735
57	-0.30288	0.00941	0.02374	-0.30488	0.00741	0.02174
58	-0.35365	0.00951	0.02399	-0.35567	0.00749	0.02197
59	-0.30055	0.00841	0.02121	-0.30234	0.00662	0.01942
60	-0.31328	0.00626	0.01579	-0.31462	0.00493	0.01446
61	-0.40848	0.00605	0.01525	-0.40977	0.00476	0.01396
62	-0.32627	0.00562	0.01418	-0.32747	0.00443	0.01298
63	-0.37131	-0.01549	0.00062	-0.37137	-0.01556	0.00055
64	-0.26586	-0.01315	0.00052	-0.26592	-0.01321	0.00047
65	-0.35431	-0.01622	0.00065	-0.35438	-0.01629	0.00058
66	-0.22009	-0.01206	0.00048	-0.22014	-0.01212	0.00043
67	-0.33712	-0.02245	0.00089	-0.33721	-0.02255	0.00080
68	-0.35783	-0.02611	0.00104	-0.35794	-0.02622	0.00093
69	-0.41730	-0.03124	0.00124	-0.41744	-0.03137	0.00111
70	-0.36878	-0.01184	0.00047	-0.36883	-0.01190	0.00042
71	-0.29989	-0.00908	0.00036	-0.29993	-0.00912	0.00032
72	-0.34084	-0.01345	0.00054	-0.34090	-0.01351	0.00048
73	-0.39776	-0.01387	0.00055	-0.39782	-0.01393	0.00049
74	-0.40750	-0.00834	0.00033	-0.40754	-0.00838	0.00030
75	-0.44695	-0.00860	0.00034	-0.44699	-0.00863	0.00030
76	-0.49136	-0.00824	0.00033	-0.49140	-0.00828	0.00029

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.16 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 2 in 2004

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.29532	0.00212	0.00069	-0.29514	0.00231	0.00088
2	-0.26309	0.00182	0.00059	-0.26293	0.00198	0.00075
3	-0.22034	0.00269	0.00088	-0.22011	0.00293	0.00112
4	-0.20815	0.00185	0.00060	-0.20798	0.00201	0.00077
5	-0.27978	0.00178	0.00058	-0.27963	0.00193	0.00074
6	-0.32706	0.00133	0.00043	-0.32694	0.00145	0.00055
7	-0.26416	0.00110	0.00036	-0.26407	0.00120	0.00046
8	-0.28180	0.00132	0.00043	-0.28168	0.00144	0.00055
9	-0.29822	0.00099	0.00032	-0.29813	0.00107	0.00041
10	-0.21401	0.00178	0.00058	-0.21385	0.00194	0.00074
11	-0.18569	0.00182	0.00059	-0.18553	0.00198	0.00075
12	-0.21122	0.00106	0.00035	-0.21112	0.00115	0.00044
13	-0.24561	0.00093	0.00030	-0.24552	0.00101	0.00038
14	-0.27760	0.00069	0.00022	-0.27754	0.00075	0.00029
15	-0.23309	0.00181	0.00059	-0.23293	0.00197	0.00075
16	-0.26070	0.00149	0.00049	-0.26057	0.00163	0.00062
17	-0.30220	0.00128	0.00042	-0.30209	0.00140	0.00053
18	-0.36237	0.00084	0.00028	-0.36229	0.00092	0.00035
19	-0.20144	0.00143	0.00047	-0.20132	0.00156	0.00059
20	-0.31744	0.00164	0.00053	-0.31729	0.00178	0.00068
21	-0.25390	0.00150	0.00049	-0.25376	0.00163	0.00062
22	-0.20726	0.00184	0.00060	-0.20709	0.00200	0.00076
23	-0.29312	0.00174	0.00057	-0.29296	0.00190	0.00072
24	-0.35509	0.00172	0.00056	-0.35494	0.00188	0.00071
25	-0.29852	0.00144	0.00047	-0.29839	0.00156	0.00059
26	-0.28284	0.00076	0.00025	-0.28278	0.00083	0.00032
27	-0.15956	-0.00059	0.00170	-0.15913	-0.00016	0.00213
28	-0.17033	-0.00070	0.00200	-0.16982	-0.00019	0.00250
29	-0.18825	-0.00074	0.00214	-0.18771	-0.00020	0.00268
30	-0.18205	-0.00097	0.00279	-0.18134	-0.00027	0.00350
31	-0.17668	-0.00085	0.00244	-0.17606	-0.00023	0.00305
32	-0.18331	-0.00064	0.00184	-0.18284	-0.00018	0.00231
33	-0.20773	-0.00064	0.00183	-0.20727	-0.00017	0.00229
34	-0.22721	-0.00051	0.00145	-0.22685	-0.00014	0.00182
35	-0.22431	-0.00038	0.00108	-0.22404	-0.00010	0.00135
36	-0.20076	-0.00174	0.00501	-0.19950	-0.00048	0.00627
37	-0.20210	-0.00141	0.00404	-0.20108	-0.00039	0.00506
38	-0.15817	-0.00135	0.00388	-0.15719	-0.00037	0.00486
39	-0.20589	-0.00123	0.00352	-0.20499	-0.00034	0.00442
40	-0.17736	-0.00132	0.00379	-0.17641	-0.00036	0.00474
41	-0.15789	-0.00122	0.00351	-0.15701	-0.00033	0.00440
42	-0.18759	-0.00124	0.00356	-0.18669	-0.00034	0.00446
43	-0.21012	-0.00129	0.00372	-0.20918	-0.00035	0.00466
44	-0.12796	0.00689	0.01736	-0.12942	0.00542	0.01590
45	-0.17427	0.00572	0.01442	-0.17549	0.00450	0.01320
46	-0.18775	0.00602	0.01518	-0.18903	0.00474	0.01390
47	-0.17453	0.00436	0.01100	-0.17546	0.00343	0.01007
48	-0.12649	0.00418	0.01053	-0.12738	0.00329	0.00964
49	-0.16067	0.00312	0.00786	-0.16134	0.00245	0.00720
50	-0.15797	0.00700	0.01765	-0.15945	0.00551	0.01616
51	-0.13110	0.00298	0.00752	-0.13173	0.00235	0.00688
52	-0.18015	0.00498	0.01256	-0.18121	0.00392	0.01150
53	-0.11506	0.00431	0.01087	-0.11598	0.00339	0.00995
54	-0.13940	0.00341	0.00860	-0.14013	0.00268	0.00787
55	-0.14485	0.00369	0.00930	-0.14564	0.00290	0.00851
56	-0.13054	0.00339	0.00856	-0.13126	0.00267	0.00784
57	-0.14999	0.00466	0.01176	-0.15099	0.00367	0.01076
58	-0.15483	0.00416	0.01050	-0.15571	0.00328	0.00962
59	-0.16906	0.00473	0.01193	-0.17007	0.00372	0.01092
60	-0.16726	0.00334	0.00843	-0.16797	0.00263	0.00772
61	-0.18554	0.00275	0.00693	-0.18613	0.00216	0.00634
62	-0.15922	0.00274	0.00692	-0.15980	0.00216	0.00634
63	-0.13995	-0.00584	0.00023	-0.13998	-0.00586	0.00021
64	-0.11443	-0.00566	0.00023	-0.11446	-0.00569	0.00020
65	-0.11222	-0.00514	0.00020	-0.11224	-0.00516	0.00018
66	-0.09176	-0.00503	0.00020	-0.09178	-0.00505	0.00018
67	-0.12129	-0.00808	0.00032	-0.12133	-0.00811	0.00029
68	-0.13655	-0.00996	0.00040	-0.13659	-0.01001	0.00035
69	-0.17254	-0.01292	0.00051	-0.17260	-0.01297	0.00046
70	-0.12716	-0.00408	0.00016	-0.12718	-0.00410	0.00014
71	-0.16195	-0.00490	0.00020	-0.16197	-0.00493	0.00017
72	-0.11399	-0.00450	0.00018	-0.11401	-0.00452	0.00016
73	-0.13027	-0.00454	0.00018	-0.13029	-0.00456	0.00016
74	-0.17430	-0.00357	0.00014	-0.17432	-0.00358	0.00013
75	-0.15875	-0.00305	0.00012	-0.15876	-0.00307	0.00011
76	-0.20818	-0.00349	0.00014	-0.20819	-0.00351	0.00012

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.17 The Elasticities with respect to Wages from Model 2 of Group 2 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-4.43552	-0.06961	0.01802	-4.41384	-0.04793	0.03970
2	-4.45681	-0.06629	0.01716	-4.43617	-0.04565	0.03780
3	-4.45081	-0.06727	0.01742	-4.42987	-0.04632	0.03836
4	-4.45076	-0.06643	0.01720	-4.43008	-0.04575	0.03789
5	-4.44755	-0.06435	0.01666	-4.42751	-0.04432	0.03670
6	-4.44682	-0.06225	0.01612	-4.42744	-0.04287	0.03550
7	-4.46545	-0.05704	0.01477	-4.44768	-0.03928	0.03253
8	-4.44759	-0.05978	0.01548	-4.42898	-0.04116	0.03409
9	-4.40210	-0.05801	0.01502	-4.38404	-0.03995	0.03308
10	-4.44248	-0.06280	0.01626	-4.42293	-0.04324	0.03581
11	-4.44397	-0.06283	0.01627	-4.42441	-0.04327	0.03583
12	-4.40377	-0.05853	0.01515	-4.38554	-0.04030	0.03338
13	-4.35076	-0.05616	0.01454	-4.33327	-0.03867	0.03203
14	-4.33562	-0.05197	0.01346	-4.31944	-0.03579	0.02964
15	-4.47172	-0.06259	0.01620	-4.45223	-0.04310	0.03569
16	-4.43677	-0.06091	0.01577	-4.41780	-0.04194	0.03473
17	-4.41398	-0.06384	0.01653	-4.39410	-0.04396	0.03641
18	-4.45340	-0.05475	0.01418	-4.43635	-0.03770	0.03122
19	-4.42309	-0.06377	0.01651	-4.40323	-0.04391	0.03636
20	-4.40862	-0.06217	0.01610	-4.38926	-0.04281	0.03545
21	-4.41478	-0.06204	0.01606	-4.39546	-0.04272	0.03538
22	-4.42173	-0.06651	0.01722	-4.40102	-0.04580	0.03793
23	-4.43326	-0.06739	0.01745	-4.41228	-0.04641	0.03843
24	-4.40068	-0.06694	0.01733	-4.37984	-0.04610	0.03817
25	-4.41424	-0.06291	0.01629	-4.39465	-0.04332	0.03588
26	-4.35157	-0.05660	0.01466	-4.33394	-0.03898	0.03228
27	-2.82869	-0.12691	0.08277	-2.81772	-0.11594	0.09374
28	-2.82673	-0.13009	0.08485	-2.81549	-0.11885	0.09609
29	-2.84286	-0.13521	0.08818	-2.83118	-0.12352	0.09987
30	-2.85806	-0.14700	0.09588	-2.84536	-0.13430	0.10858
31	-2.85217	-0.14021	0.09145	-2.84005	-0.12810	0.10357
32	-2.83365	-0.12893	0.08409	-2.82251	-0.11779	0.09523
33	-2.82588	-0.12689	0.08276	-2.81491	-0.11592	0.09372
34	-2.81448	-0.11587	0.07557	-2.80447	-0.10586	0.08559
35	-2.78347	-0.10836	0.07068	-2.77410	-0.09900	0.08004
36	-2.89313	-0.17171	0.11199	-2.87829	-0.15687	0.12683
37	-2.89677	-0.17423	0.11363	-2.88172	-0.15917	0.12869
38	-2.88074	-0.15789	0.10297	-2.86709	-0.14424	0.11662
39	-2.86932	-0.15291	0.09973	-2.85610	-0.13970	0.11294
40	-2.87222	-0.15298	0.09977	-2.85900	-0.13976	0.11299
41	-2.88166	-0.15788	0.10297	-2.86802	-0.14423	0.11661
42	-2.88574	-0.16050	0.10468	-2.87187	-0.14663	0.11855
43	-2.88693	-0.15846	0.10335	-2.87324	-0.14476	0.11704

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.89793	-0.01602	0.26712	-1.95086	-0.06896	0.21418
45	-1.95184	-0.01461	0.24354	-2.00010	-0.06287	0.19528
46	-2.00942	-0.01382	0.23037	-2.05507	-0.05947	0.18472
47	-2.02514	-0.01295	0.21588	-2.06792	-0.05573	0.17310
48	-1.89346	-0.01338	0.22315	-1.93768	-0.05761	0.17893
49	-2.03469	-0.01299	0.21662	-2.07762	-0.05592	0.17369
50	-1.94468	-0.01511	0.25198	-1.99461	-0.06505	0.20205
51	-2.00167	-0.01277	0.21288	-2.04386	-0.05495	0.17069
52	-1.97109	-0.01352	0.22535	-2.01575	-0.05817	0.18069
53	-1.93993	-0.01432	0.23869	-1.98723	-0.06162	0.19139
54	-2.00074	-0.01298	0.21638	-2.04362	-0.05586	0.17350
55	-2.02191	-0.01312	0.21872	-2.06525	-0.05646	0.17537
56	-2.01223	-0.01253	0.20890	-2.05363	-0.05393	0.16750
57	-2.00825	-0.01364	0.22736	-2.05331	-0.05869	0.18231
58	-1.99875	-0.01346	0.22446	-2.04324	-0.05794	0.17998
59	-2.03199	-0.01315	0.21930	-2.07544	-0.05661	0.17584
60	-1.93730	-0.01289	0.21482	-1.97987	-0.05546	0.17225
61	-2.03367	-0.01165	0.19422	-2.07216	-0.05014	0.15573
62	-2.02260	-0.01215	0.20253	-2.06274	-0.05228	0.16240
63	-2.36406	-0.29204	0.01943	-2.35468	-0.28266	0.02881
64	-2.36402	-0.29046	0.01932	-2.35470	-0.28113	0.02865
65	-2.36630	-0.28882	0.01921	-2.35702	-0.27955	0.02849
66	-2.34899	-0.27119	0.01804	-2.34028	-0.26248	0.02675
67	-2.39442	-0.31618	0.02103	-2.38427	-0.30602	0.03119
68	-2.40765	-0.32322	0.02150	-2.39727	-0.31284	0.03188
69	-2.43293	-0.34207	0.02276	-2.42194	-0.33108	0.03374
70	-2.32801	-0.26626	0.01771	-2.31946	-0.25771	0.02626
71	-2.32667	-0.26576	0.01768	-2.31813	-0.25723	0.02622
72	-2.35027	-0.28480	0.01895	-2.34112	-0.27566	0.02809
73	-2.34617	-0.28293	0.01882	-2.33708	-0.27384	0.02791
74	-2.31621	-0.25671	0.01708	-2.30797	-0.24846	0.02532
75	-2.30593	-0.24937	0.01659	-2.29793	-0.24137	0.02460
76	-2.30430	-0.24319	0.01618	-2.29649	-0.23538	0.02399

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.18 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.11329	-0.00178	0.00046	-0.11274	-0.00122	0.00101
2	-0.11231	-0.00167	0.00043	-0.11179	-0.00115	0.00095
3	-0.11253	-0.00170	0.00044	-0.11200	-0.00117	0.00097
4	-0.11239	-0.00168	0.00043	-0.11187	-0.00116	0.00096
5	-0.11206	-0.00162	0.00042	-0.11156	-0.00112	0.00092
6	-0.11170	-0.00156	0.00040	-0.11121	-0.00108	0.00089
7	-0.11039	-0.00141	0.00037	-0.10995	-0.00097	0.00080
8	-0.11124	-0.00150	0.00039	-0.11077	-0.00103	0.00085
9	-0.11189	-0.00147	0.00038	-0.11143	-0.00102	0.00084
10	-0.11186	-0.00158	0.00041	-0.11136	-0.00109	0.00090
11	-0.11193	-0.00158	0.00041	-0.11144	-0.00109	0.00090
12	-0.11202	-0.00149	0.00039	-0.11155	-0.00103	0.00085
13	-0.11297	-0.00146	0.00038	-0.11252	-0.00100	0.00083
14	-0.11258	-0.00135	0.00035	-0.11216	-0.00093	0.00077
15	-0.11131	-0.00156	0.00040	-0.11083	-0.00107	0.00089
16	-0.11167	-0.00153	0.00040	-0.11119	-0.00106	0.00087
17	-0.11269	-0.00163	0.00042	-0.11219	-0.00112	0.00093
18	-0.11016	-0.00135	0.00035	-0.10974	-0.00093	0.00077
19	-0.11251	-0.00162	0.00042	-0.11200	-0.00112	0.00092
20	-0.11254	-0.00159	0.00041	-0.11205	-0.00109	0.00091
21	-0.11237	-0.00158	0.00041	-0.11188	-0.00109	0.00090
22	-0.11303	-0.00170	0.00044	-0.11250	-0.00117	0.00097
23	-0.11294	-0.00172	0.00044	-0.11240	-0.00118	0.00098
24	-0.11360	-0.00173	0.00045	-0.11306	-0.00119	0.00099
25	-0.11255	-0.00160	0.00042	-0.11205	-0.00110	0.00091
26	-0.11313	-0.00147	0.00038	-0.11267	-0.00101	0.00084
27	-0.06776	-0.00304	0.00198	-0.06750	-0.00278	0.00225
28	-0.06873	-0.00316	0.00206	-0.06845	-0.00289	0.00234
29	-0.06821	-0.00324	0.00212	-0.06793	-0.00296	0.00240
30	-0.06760	-0.00348	0.00227	-0.06730	-0.00318	0.00257
31	-0.06866	-0.00338	0.00220	-0.06837	-0.00308	0.00249
32	-0.06851	-0.00312	0.00203	-0.06824	-0.00285	0.00230
33	-0.06839	-0.00307	0.00200	-0.06813	-0.00281	0.00227
34	-0.06697	-0.00276	0.00180	-0.06674	-0.00252	0.00204
35	-0.06791	-0.00264	0.00172	-0.06768	-0.00242	0.00195
36	-0.06933	-0.00411	0.00268	-0.06898	-0.00376	0.00304
37	-0.06959	-0.00419	0.00273	-0.06923	-0.00382	0.00309
38	-0.06896	-0.00378	0.00247	-0.06863	-0.00345	0.00279
39	-0.06816	-0.00363	0.00237	-0.06785	-0.00332	0.00268
40	-0.06837	-0.00364	0.00238	-0.06806	-0.00333	0.00269
41	-0.06915	-0.00379	0.00247	-0.06883	-0.00346	0.00280
42	-0.06924	-0.00385	0.00251	-0.06891	-0.00352	0.00284
43	-0.06922	-0.00380	0.00248	-0.06889	-0.00347	0.00281

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.04865	-0.00041	0.00685	-0.05000	-0.00177	0.00549
45	-0.04895	-0.00037	0.00611	-0.05016	-0.00158	0.00490
46	-0.04980	-0.00034	0.00571	-0.05094	-0.00147	0.00458
47	-0.04973	-0.00032	0.00530	-0.05078	-0.00137	0.00425
48	-0.04705	-0.00033	0.00554	-0.04815	-0.00143	0.00445
49	-0.05005	-0.00032	0.00533	-0.05110	-0.00138	0.00427
50	-0.04908	-0.00038	0.00636	-0.05034	-0.00164	0.00510
51	-0.04899	-0.00031	0.00521	-0.05002	-0.00134	0.00418
52	-0.04874	-0.00033	0.00557	-0.04984	-0.00144	0.00447
53	-0.04856	-0.00036	0.00597	-0.04974	-0.00154	0.00479
54	-0.04910	-0.00032	0.00531	-0.05015	-0.00137	0.00426
55	-0.04972	-0.00032	0.00538	-0.05079	-0.00139	0.00431
56	-0.04911	-0.00031	0.00510	-0.05012	-0.00132	0.00409
57	-0.04968	-0.00034	0.00562	-0.05080	-0.00145	0.00451
58	-0.04935	-0.00033	0.00554	-0.05045	-0.00143	0.00444
59	-0.05006	-0.00032	0.00540	-0.05113	-0.00139	0.00433
60	-0.04761	-0.00032	0.00528	-0.04866	-0.00136	0.00423
61	-0.04917	-0.00028	0.00470	-0.05010	-0.00121	0.00377
62	-0.04917	-0.00030	0.00492	-0.05015	-0.00127	0.00395
63	-0.06062	-0.00749	0.00050	-0.06038	-0.00725	0.00074
64	-0.06064	-0.00745	0.00050	-0.06040	-0.00721	0.00073
65	-0.06059	-0.00740	0.00049	-0.06036	-0.00716	0.00073
66	-0.06031	-0.00696	0.00046	-0.06009	-0.00674	0.00069
67	-0.06161	-0.00814	0.00054	-0.06135	-0.00787	0.00080
68	-0.06200	-0.00832	0.00055	-0.06173	-0.00806	0.00082
69	-0.06240	-0.00877	0.00058	-0.06212	-0.00849	0.00087
70	-0.06017	-0.00688	0.00046	-0.05994	-0.00666	0.00068
71	-0.06030	-0.00689	0.00046	-0.06008	-0.00667	0.00068
72	-0.06086	-0.00737	0.00049	-0.06062	-0.00714	0.00073
73	-0.06112	-0.00737	0.00049	-0.06089	-0.00713	0.00073
74	-0.05984	-0.00663	0.00044	-0.05963	-0.00642	0.00065
75	-0.05995	-0.00648	0.00043	-0.05974	-0.00627	0.00064
76	-0.05883	-0.00621	0.00041	-0.05863	-0.00601	0.00061

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.19 The Elasticities with respect to Distances from Model 2 of Group 2 in 2005

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.26409	-0.00414	0.00107	-0.26280	-0.00285	0.00236
2	-0.29512	-0.00439	0.00114	-0.29376	-0.00302	0.00250
3	-0.28553	-0.00432	0.00112	-0.28418	-0.00297	0.00246
4	-0.29767	-0.00444	0.00115	-0.29628	-0.00306	0.00253
5	-0.33097	-0.00479	0.00124	-0.32948	-0.00330	0.00273
6	-0.36373	-0.00509	0.00132	-0.36215	-0.00351	0.00290
7	-0.43434	-0.00555	0.00144	-0.43262	-0.00382	0.00316
8	-0.40252	-0.00541	0.00140	-0.40084	-0.00373	0.00309
9	-0.46626	-0.00614	0.00159	-0.46434	-0.00423	0.00350
10	-0.35859	-0.00507	0.00131	-0.35702	-0.00349	0.00289
11	-0.35682	-0.00505	0.00131	-0.35525	-0.00347	0.00288
12	-0.45633	-0.00606	0.00157	-0.45445	-0.00418	0.00346
13	-0.53638	-0.00692	0.00179	-0.53422	-0.00477	0.00395
14	-0.62311	-0.00747	0.00193	-0.62079	-0.00514	0.00426
15	-0.33943	-0.00475	0.00123	-0.33795	-0.00327	0.00271
16	-0.39258	-0.00539	0.00140	-0.39090	-0.00371	0.00307
17	-0.36428	-0.00527	0.00136	-0.36264	-0.00363	0.00300
18	-0.48344	-0.00594	0.00154	-0.48159	-0.00409	0.00339
19	-0.35850	-0.00517	0.00134	-0.35689	-0.00356	0.00295
20	-0.39413	-0.00556	0.00144	-0.39240	-0.00383	0.00317
21	-0.39150	-0.00550	0.00142	-0.38979	-0.00379	0.00314
22	-0.31873	-0.00479	0.00124	-0.31724	-0.00330	0.00273
23	-0.29711	-0.00452	0.00117	-0.29571	-0.00311	0.00258
24	-0.32848	-0.00500	0.00129	-0.32693	-0.00344	0.00285
25	-0.37834	-0.00539	0.00140	-0.37666	-0.00371	0.00307
26	-0.52806	-0.00687	0.00178	-0.52592	-0.00473	0.00392
27	-0.64292	-0.02884	0.01881	-0.64043	-0.02635	0.02130
28	-0.62023	-0.02854	0.01862	-0.61776	-0.02608	0.02108
29	-0.57408	-0.02730	0.01781	-0.57172	-0.02494	0.02017
30	-0.48685	-0.02504	0.01633	-0.48469	-0.02288	0.01850
31	-0.53360	-0.02623	0.01711	-0.53134	-0.02397	0.01938
32	-0.62410	-0.02840	0.01852	-0.62165	-0.02594	0.02097
33	-0.64431	-0.02893	0.01887	-0.64181	-0.02643	0.02137
34	-0.73790	-0.03038	0.01981	-0.73528	-0.02775	0.02244
35	-0.82016	-0.03193	0.02082	-0.81740	-0.02917	0.02358
36	-0.31768	-0.01885	0.01230	-0.31605	-0.01723	0.01393
37	-0.30149	-0.01813	0.01183	-0.29993	-0.01657	0.01339
38	-0.40403	-0.02214	0.01444	-0.40211	-0.02023	0.01636
39	-0.44219	-0.02357	0.01537	-0.44015	-0.02153	0.01741
40	-0.43963	-0.02341	0.01527	-0.43760	-0.02139	0.01729
41	-0.40325	-0.02209	0.01441	-0.40134	-0.02018	0.01632
42	-0.38519	-0.02142	0.01397	-0.38334	-0.01957	0.01582
43	-0.39622	-0.02175	0.01418	-0.39434	-0.01987	0.01606
44	-0.23924	-0.00202	0.03367	-0.24591	-0.00869	0.02700
45	-0.30520	-0.00228	0.03808	-0.31274	-0.00983	0.03053
46	-0.33124	-0.00228	0.03798	-0.33877	-0.00980	0.03045
47	-0.38816	-0.00248	0.04138	-0.39636	-0.01068	0.03318
48	-0.42244	-0.00299	0.04979	-0.43230	-0.01285	0.03992
49	-0.37954	-0.00242	0.04041	-0.38755	-0.01043	0.03240
50	-0.27457	-0.00213	0.03558	-0.28162	-0.00918	0.02853
51	-0.41469	-0.00265	0.04410	-0.42343	-0.01139	0.03536
52	-0.37340	-0.00256	0.04269	-0.38186	-0.01102	0.03423
53	-0.33146	-0.00245	0.04078	-0.33954	-0.01053	0.03270
54	-0.39879	-0.00259	0.04313	-0.40733	-0.01113	0.03458
55	-0.37678	-0.00244	0.04076	-0.38486	-0.01052	0.03268
56	-0.42806	-0.00267	0.04444	-0.43686	-0.01147	0.03563
57	-0.34505	-0.00234	0.03906	-0.35279	-0.01008	0.03132
58	-0.36298	-0.00244	0.04076	-0.37106	-0.01052	0.03268
59	-0.36866	-0.00239	0.03979	-0.37655	-0.01027	0.03190
60	-0.43878	-0.00292	0.04866	-0.44843	-0.01256	0.03901
61	-0.48976	-0.00281	0.04677	-0.49903	-0.01207	0.03750
62	-0.45362	-0.00272	0.04542	-0.46262	-0.01173	0.03642
63	-0.57017	-0.07043	0.00469	-0.56791	-0.06817	0.00695
64	-0.57496	-0.07064	0.00470	-0.57269	-0.06837	0.00697
65	-0.57853	-0.07061	0.00470	-0.57626	-0.06835	0.00697
66	-0.64505	-0.07447	0.00495	-0.64266	-0.07208	0.00735
67	-0.48016	-0.06340	0.00422	-0.47812	-0.06137	0.00625
68	-0.45200	-0.06068	0.00404	-0.45005	-0.05873	0.00599
69	-0.38554	-0.05421	0.00361	-0.38380	-0.05247	0.00535
70	-0.67443	-0.07714	0.00513	-0.67196	-0.07466	0.00761
71	-0.67678	-0.07731	0.00514	-0.67429	-0.07482	0.00763
72	-0.60065	-0.07279	0.00484	-0.59831	-0.07045	0.00718
73	-0.60875	-0.07341	0.00488	-0.60640	-0.07105	0.00724
74	-0.71422	-0.07916	0.00527	-0.71168	-0.07662	0.00781
75	-0.74598	-0.08067	0.00537	-0.74339	-0.07808	0.00796
76	-0.77022	-0.08129	0.00541	-0.76761	-0.07868	0.00802

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.20 The Elasticities with respect to Wages from Model 2 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-9.09550	0.43089	0.01068	-9.08824	0.43815	0.01794
2	-9.17224	0.37128	0.00921	-9.16599	0.37754	0.01546
3	-9.10938	0.39862	0.00988	-9.10267	0.40534	0.01660
4	-9.14475	0.37399	0.00927	-9.13844	0.38029	0.01557
5	-9.12225	0.33441	0.00829	-9.11661	0.34005	0.01393
6	-9.16084	0.29100	0.00722	-9.15594	0.29590	0.01212
7	-9.19575	0.22153	0.00549	-9.19201	0.22527	0.00923
8	-9.16761	0.25064	0.00621	-9.16339	0.25487	0.01044
9	-9.17906	0.19541	0.00485	-9.17577	0.19870	0.00814
10	-9.16863	0.29540	0.00732	-9.16366	0.30038	0.01230
11	-9.15978	0.29380	0.00728	-9.15483	0.29875	0.01223
12	-9.19478	0.18515	0.00459	-9.19167	0.18827	0.00771
13	-9.20077	0.12633	0.00313	-9.19864	0.12846	0.00526
14	-9.21322	0.08363	0.00207	-9.21181	0.08504	0.00348
15	-9.15862	0.31631	0.00784	-9.15329	0.32164	0.01317
16	-9.18930	0.25080	0.00622	-9.18508	0.25503	0.01044
17	-9.11759	0.30688	0.00761	-9.11242	0.31205	0.01278
18	-9.24913	0.15980	0.00396	-9.24643	0.16249	0.00665
19	-9.17193	0.27242	0.00675	-9.16734	0.27701	0.01134
20	-9.17959	0.23828	0.00591	-9.17557	0.24230	0.00992
21	-9.12739	0.27188	0.00674	-9.12280	0.27646	0.01132
22	-9.11906	0.33993	0.00843	-9.11333	0.34566	0.01416
23	-9.09798	0.37368	0.00927	-9.09168	0.37997	0.01556
24	-9.11447	0.32176	0.00798	-9.10905	0.32718	0.01340
25	-9.16647	0.24712	0.00613	-9.16230	0.25128	0.01029
26	-9.22466	0.11309	0.00280	-9.22276	0.11500	0.00471
27	-2.08928	0.03816	0.06162	-2.11663	0.01082	0.03427
28	-2.09148	0.03971	0.06411	-2.11993	0.01125	0.03566
29	-2.09658	0.04301	0.06944	-2.12740	0.01219	0.03862
30	-2.10178	0.05006	0.08082	-2.13765	0.01419	0.04495
31	-2.09817	0.04618	0.07457	-2.13127	0.01309	0.04147
32	-2.09581	0.03937	0.06356	-2.12402	0.01116	0.03535
33	-2.09388	0.03811	0.06153	-2.12119	0.01080	0.03422
34	-2.08798	0.03210	0.05184	-2.11099	0.00910	0.02883
35	-2.09347	0.02740	0.04425	-2.11311	0.00777	0.02461
36	-2.09358	0.06744	0.10889	-2.14191	0.01912	0.06056
37	-2.09128	0.06940	0.11206	-2.14101	0.01967	0.06232
38	-2.09988	0.05753	0.09288	-2.14111	0.01630	0.05166
39	-2.10167	0.05387	0.08698	-2.14028	0.01527	0.04838
40	-2.10298	0.05424	0.08757	-2.14184	0.01537	0.04870
41	-2.10152	0.05773	0.09321	-2.14288	0.01636	0.05184
42	-2.10078	0.05965	0.09632	-2.14352	0.01691	0.05357
43	-2.10286	0.05821	0.09398	-2.14457	0.01650	0.05227
44	-3.15415	0.20397	0.10048	-3.10212	0.25599	0.15250
45	-3.41701	0.13475	0.06638	-3.38264	0.16912	0.10075
46	-3.53769	0.11252	0.05543	-3.50899	0.14122	0.08413
47	-3.57682	0.08768	0.04319	-3.55446	0.11004	0.06556
48	-3.55550	0.07866	0.03875	-3.53544	0.09872	0.05881
49	-3.57753	0.09152	0.04508	-3.55418	0.11486	0.06843
50	-3.42990	0.15261	0.07518	-3.39098	0.19153	0.11410
51	-3.58510	0.07944	0.03913	-3.56484	0.09970	0.05939
52	-3.54108	0.09740	0.04798	-3.51624	0.12225	0.07283
53	-3.49136	0.11834	0.05830	-3.46117	0.14852	0.08848
54	-3.58520	0.08420	0.04148	-3.56372	0.10568	0.06296
55	-3.57619	0.09440	0.04651	-3.55211	0.11848	0.07058
56	-3.60037	0.07392	0.03641	-3.58152	0.09277	0.05527
57	-3.54703	0.10743	0.05292	-3.51963	0.13483	0.08032
58	-3.55829	0.09929	0.04891	-3.53297	0.12461	0.07424
59	-3.57722	0.09612	0.04735	-3.55270	0.12064	0.07187
60	-3.57390	0.07257	0.03575	-3.55539	0.09108	0.05426
61	-3.60949	0.05762	0.02838	-3.59479	0.07232	0.04308
62	-3.60551	0.07123	0.03509	-3.58734	0.08940	0.05326
63	-3.17407	0.06408	0.01321	-3.17547	0.06267	0.01180
64	-3.16420	0.06431	0.01326	-3.16562	0.06290	0.01184
65	-3.15619	0.06399	0.01319	-3.15759	0.06258	0.01178
66	-3.14339	0.05184	0.01069	-3.14452	0.05071	0.00955
67	-3.17027	0.08688	0.01791	-3.17218	0.08497	0.01600
68	-3.17142	0.09622	0.01984	-3.17354	0.09410	0.01772
69	-3.17657	0.11836	0.02440	-3.17917	0.11575	0.02180
70	-3.16121	0.04507	0.00929	-3.16220	0.04408	0.00830
71	-3.17194	0.04473	0.00922	-3.17293	0.04375	0.00824
72	-3.16889	0.05821	0.01200	-3.17017	0.05693	0.01072
73	-3.16847	0.05641	0.01163	-3.16971	0.05517	0.01039
74	-3.16465	0.03942	0.00813	-3.16552	0.03855	0.00726
75	-3.16436	0.03535	0.00729	-3.16514	0.03457	0.00651
76	-3.16855	0.03266	0.00673	-3.16927	0.03194	0.00602

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.21 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.14951	0.00708	0.00018	-0.14939	0.00720	0.00029
2	-0.14982	0.00606	0.00015	-0.14972	0.00617	0.00025
3	-0.15045	0.00658	0.00016	-0.15033	0.00669	0.00027
4	-0.15000	0.00613	0.00015	-0.14990	0.00624	0.00026
5	-0.15157	0.00556	0.00014	-0.15148	0.00565	0.00023
6	-0.15140	0.00481	0.00012	-0.15132	0.00489	0.00020
7	-0.15192	0.00366	0.00009	-0.15186	0.00372	0.00015
8	-0.15227	0.00416	0.00010	-0.15220	0.00423	0.00017
9	-0.15362	0.00327	0.00008	-0.15357	0.00333	0.00014
10	-0.15097	0.00486	0.00012	-0.15089	0.00495	0.00020
11	-0.15224	0.00488	0.00012	-0.15215	0.00497	0.00020
12	-0.15386	0.00310	0.00008	-0.15381	0.00315	0.00013
13	-0.15566	0.00214	0.00005	-0.15563	0.00217	0.00009
14	-0.15647	0.00142	0.00004	-0.15645	0.00144	0.00006
15	-0.15131	0.00523	0.00013	-0.15122	0.00531	0.00022
16	-0.15183	0.00414	0.00010	-0.15176	0.00421	0.00017
17	-0.15234	0.00513	0.00013	-0.15226	0.00521	0.00021
18	-0.15136	0.00262	0.00006	-0.15132	0.00266	0.00011
19	-0.15191	0.00451	0.00011	-0.15183	0.00459	0.00019
20	-0.15259	0.00396	0.00010	-0.15252	0.00403	0.00016
21	-0.15327	0.00457	0.00011	-0.15319	0.00464	0.00019
22	-0.15178	0.00566	0.00014	-0.15168	0.00575	0.00024
23	-0.15150	0.00622	0.00015	-0.15139	0.00633	0.00026
24	-0.15251	0.00538	0.00013	-0.15242	0.00547	0.00022
25	-0.15294	0.00412	0.00010	-0.15287	0.00419	0.00017
26	-0.15601	0.00191	0.00005	-0.15597	0.00194	0.00008
27	-0.03369	0.00062	0.00099	-0.03413	0.00017	0.00055
28	-0.03371	0.00064	0.00103	-0.03416	0.00018	0.00057
29	-0.03343	0.00069	0.00111	-0.03392	0.00019	0.00062
30	-0.03321	0.00079	0.00128	-0.03378	0.00022	0.00071
31	-0.03361	0.00074	0.00119	-0.03414	0.00021	0.00066
32	-0.03370	0.00063	0.00102	-0.03416	0.00018	0.00057
33	-0.03348	0.00061	0.00098	-0.03391	0.00017	0.00055
34	-0.03371	0.00052	0.00084	-0.03408	0.00015	0.00047
35	-0.03279	0.00043	0.00069	-0.03309	0.00012	0.00039
36	-0.03340	0.00108	0.00174	-0.03417	0.00030	0.00097
37	-0.03335	0.00111	0.00179	-0.03414	0.00031	0.00099
38	-0.03361	0.00092	0.00149	-0.03427	0.00026	0.00083
39	-0.03333	0.00085	0.00138	-0.03395	0.00024	0.00077
40	-0.03301	0.00085	0.00137	-0.03362	0.00024	0.00076
41	-0.03310	0.00091	0.00147	-0.03375	0.00026	0.00082
42	-0.03310	0.00094	0.00152	-0.03377	0.00027	0.00084
43	-0.03312	0.00092	0.00148	-0.03378	0.00026	0.00082
44	-0.05368	0.00347	0.00171	-0.05280	0.00436	0.00260
45	-0.05488	0.00216	0.00107	-0.05433	0.00272	0.00162
46	-0.05663	0.00180	0.00089	-0.05617	0.00226	0.00135
47	-0.05660	0.00139	0.00068	-0.05625	0.00174	0.00104
48	-0.05461	0.00121	0.00060	-0.05430	0.00152	0.00090
49	-0.05687	0.00145	0.00072	-0.05650	0.00183	0.00109
50	-0.05589	0.00249	0.00122	-0.05525	0.00312	0.00186
51	-0.05602	0.00124	0.00061	-0.05570	0.00156	0.00093
52	-0.05519	0.00152	0.00075	-0.05480	0.00191	0.00113
53	-0.05536	0.00188	0.00092	-0.05488	0.00235	0.00140
54	-0.05628	0.00132	0.00065	-0.05594	0.00166	0.00099
55	-0.05642	0.00149	0.00073	-0.05604	0.00187	0.00111
56	-0.05660	0.00116	0.00057	-0.05630	0.00146	0.00087
57	-0.05638	0.00171	0.00084	-0.05594	0.00214	0.00128
58	-0.05625	0.00157	0.00077	-0.05585	0.00197	0.00117
59	-0.05720	0.00154	0.00076	-0.05681	0.00193	0.00115
60	-0.05413	0.00110	0.00054	-0.05385	0.00138	0.00082
61	-0.05620	0.00090	0.00044	-0.05597	0.00113	0.00067
62	-0.05667	0.00112	0.00055	-0.05638	0.00141	0.00084
63	-0.05251	0.00106	0.00022	-0.05253	0.00104	0.00020
64	-0.05298	0.00108	0.00022	-0.05301	0.00105	0.00020
65	-0.05278	0.00107	0.00022	-0.05280	0.00105	0.00020
66	-0.05300	0.00087	0.00018	-0.05302	0.00085	0.00016
67	-0.05271	0.00144	0.00030	-0.05274	0.00141	0.00027
68	-0.05263	0.00160	0.00033	-0.05267	0.00156	0.00029
69	-0.05205	0.00194	0.00040	-0.05210	0.00190	0.00036
70	-0.05290	0.00075	0.00016	-0.05292	0.00074	0.00014
71	-0.05288	0.00075	0.00015	-0.05289	0.00073	0.00014
72	-0.05323	0.00098	0.00020	-0.05325	0.00096	0.00018
73	-0.05316	0.00095	0.00020	-0.05318	0.00093	0.00017
74	-0.05302	0.00066	0.00014	-0.05303	0.00065	0.00012
75	-0.05353	0.00060	0.00012	-0.05354	0.00058	0.00011
76	-0.05278	0.00054	0.00011	-0.05280	0.00053	0.00010

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.22 The Elasticities with respect to Distances from Model 2 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.08346	0.05133	0.00127	-1.08259	0.05219	0.00214
2	-1.21967	0.04937	0.00122	-1.21884	0.05020	0.00206
3	-1.17712	0.05151	0.00128	-1.17625	0.05238	0.00215
4	-1.23328	0.05044	0.00125	-1.23243	0.05129	0.00210
5	-1.39882	0.05128	0.00127	-1.39795	0.05214	0.00214
6	-1.54531	0.04909	0.00122	-1.54448	0.04991	0.00204
7	-1.85399	0.04466	0.00111	-1.85324	0.04542	0.00186
8	-1.72629	0.04720	0.00117	-1.72549	0.04799	0.00197
9	-2.01811	0.04296	0.00107	-2.01738	0.04369	0.00179
10	-1.51988	0.04897	0.00121	-1.51905	0.04979	0.00204
11	-1.53317	0.04918	0.00122	-1.53234	0.05000	0.00205
12	-2.06843	0.04165	0.00103	-2.06772	0.04235	0.00173
13	-2.50431	0.03438	0.00085	-2.50373	0.03496	0.00143
14	-2.95130	0.02679	0.00066	-2.95085	0.02724	0.00112
15	-1.44025	0.04974	0.00123	-1.43941	0.05058	0.00207
16	-1.70718	0.04659	0.00116	-1.70640	0.04738	0.00194
17	-1.51352	0.05094	0.00126	-1.51266	0.05180	0.00212
18	-2.19645	0.03795	0.00094	-2.19581	0.03859	0.00158
19	-1.61877	0.04808	0.00119	-1.61796	0.04889	0.00200
20	-1.77813	0.04616	0.00114	-1.77735	0.04693	0.00192
21	-1.65832	0.04940	0.00122	-1.65749	0.05023	0.00206
22	-1.37989	0.05144	0.00128	-1.37903	0.05231	0.00214
23	-1.27280	0.05228	0.00130	-1.27192	0.05316	0.00218
24	-1.45480	0.05136	0.00127	-1.45393	0.05222	0.00214
25	-1.74417	0.04702	0.00117	-1.74338	0.04781	0.00196
26	-2.60774	0.03197	0.00079	-2.60720	0.03251	0.00133
27	-1.07034	0.01955	0.03157	-1.08435	0.00554	0.01756
28	-1.02863	0.01953	0.03153	-1.04262	0.00554	0.01754
29	-0.94475	0.01938	0.03129	-0.95864	0.00549	0.01740
30	-0.78715	0.01875	0.03027	-0.80058	0.00531	0.01684
31	-0.87091	0.01917	0.03095	-0.88465	0.00543	0.01721
32	-1.03520	0.01945	0.03140	-1.04914	0.00551	0.01746
33	-1.06971	0.01947	0.03143	-1.08366	0.00552	0.01748
34	-1.24755	0.01918	0.03097	-1.26130	0.00544	0.01723
35	-1.40721	0.01842	0.02974	-1.42041	0.00522	0.01654
36	-0.48671	0.01568	0.02531	-0.49794	0.00444	0.01408
37	-0.45873	0.01522	0.02458	-0.46964	0.00431	0.01367
38	-0.64562	0.01769	0.02856	-0.65830	0.00501	0.01588
39	-0.71201	0.01825	0.02947	-0.72509	0.00517	0.01639
40	-0.70483	0.01818	0.02935	-0.71785	0.00515	0.01632
41	-0.64173	0.01763	0.02846	-0.65436	0.00500	0.01583
42	-0.60858	0.01728	0.02790	-0.62096	0.00490	0.01552
43	-0.63253	0.01751	0.02827	-0.64508	0.00496	0.01572
44	-0.87957	0.05688	0.02802	-0.86507	0.07139	0.04253
45	-1.16750	0.04604	0.02268	-1.15575	0.05778	0.03442
46	-1.28063	0.04073	0.02006	-1.27024	0.05112	0.03045
47	-1.52349	0.03735	0.01840	-1.51396	0.04687	0.02792
48	-1.65697	0.03666	0.01806	-1.64762	0.04601	0.02741
49	-1.47657	0.03777	0.01861	-1.46694	0.04741	0.02824
50	-1.02022	0.04539	0.02236	-1.00865	0.05697	0.03394
51	-1.62427	0.03599	0.01773	-1.61509	0.04517	0.02691
52	-1.43633	0.03951	0.01946	-1.42625	0.04959	0.02954
53	-1.25880	0.04267	0.02102	-1.24791	0.05355	0.03190
54	-1.56144	0.03667	0.01807	-1.55209	0.04603	0.02742
55	-1.44444	0.03813	0.01878	-1.43472	0.04786	0.02851
56	-1.68997	0.03470	0.01709	-1.68112	0.04355	0.02594
57	-1.32477	0.04012	0.01977	-1.31454	0.05036	0.03000
58	-1.40255	0.03914	0.01928	-1.39257	0.04912	0.02926
59	-1.42349	0.03825	0.01884	-1.41373	0.04801	0.02860
60	-1.73070	0.03514	0.01731	-1.72173	0.04411	0.02628
61	-1.94855	0.03111	0.01532	-1.94062	0.03904	0.02326
62	-1.72582	0.03409	0.01680	-1.71713	0.04279	0.02549
63	-1.83829	0.03711	0.00765	-1.83910	0.03630	0.00683
64	-1.84051	0.03741	0.00771	-1.84133	0.03659	0.00689
65	-1.85144	0.03753	0.00774	-1.85226	0.03671	0.00691
66	-2.08219	0.03434	0.00708	-2.08294	0.03359	0.00632
67	-1.51568	0.04154	0.00856	-1.51660	0.04062	0.00765
68	-1.40519	0.04263	0.00879	-1.40612	0.04170	0.00785
69	-1.17811	0.04390	0.00905	-1.17908	0.04293	0.00808
70	-2.21756	0.03162	0.00652	-2.21825	0.03092	0.00582
71	-2.21831	0.03128	0.00645	-2.21900	0.03060	0.00576
72	-1.94275	0.03569	0.00736	-1.94354	0.03490	0.00657
73	-1.97634	0.03518	0.00725	-1.97711	0.03441	0.00648
74	-2.35538	0.02934	0.00605	-2.35602	0.02869	0.00540
75	-2.46866	0.02758	0.00568	-2.46927	0.02697	0.00508
76	-2.54878	0.02627	0.00542	-2.54936	0.02569	0.00484

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.23 The Elasticities with respect to Wages from Model 3 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-17.06790	0.42903	0.00426	-17.06333	0.43359	0.00883
2	-16.76026	0.76815	0.00763	-16.75208	0.77633	0.01581
3	-16.99552	0.46765	0.00465	-16.99055	0.47263	0.00962
4	-16.63858	0.84430	0.00839	-16.62959	0.85328	0.01737
5	-16.40763	0.96124	0.00955	-16.39739	0.97147	0.01978
6	-16.93626	0.42375	0.00421	-16.93175	0.42826	0.00872
7	-16.92698	0.36956	0.00367	-16.92304	0.37349	0.00761
8	-16.97804	0.32029	0.00318	-16.97463	0.32370	0.00659
9	-16.41888	0.79903	0.00794	-16.41038	0.80754	0.01644
10	-16.91424	0.46817	0.00465	-16.90925	0.47316	0.00963
11	-16.99694	0.36626	0.00364	-16.99304	0.37016	0.00754
12	-16.95799	0.26995	0.00268	-16.95511	0.27283	0.00556
13	-16.93482	0.19608	0.00195	-16.93273	0.19816	0.00404
14	-17.03752	0.03783	0.00038	-17.03712	0.03823	0.00078
15	-16.46005	0.94238	0.00936	-16.45002	0.95241	0.01939
16	-16.68990	0.64855	0.00644	-16.68300	0.65546	0.01335
17	-15.83083	1.47891	0.01469	-15.81509	1.49466	0.03043
18	-16.85824	0.42295	0.00420	-16.85373	0.42746	0.00870
19	-17.06216	0.28409	0.00282	-17.05914	0.28712	0.00585
20	-16.86154	0.43608	0.00433	-16.85690	0.44072	0.00897
21	-16.61785	0.64560	0.00641	-16.61098	0.65247	0.01329
22	-17.10168	0.27147	0.00270	-17.09879	0.27436	0.00559
23	-16.83498	0.56143	0.00558	-16.82900	0.56741	0.01155
24	-16.18696	1.14439	0.01137	-16.17478	1.15657	0.02355
25	-16.40108	0.88867	0.00883	-16.39162	0.89813	0.01829
26	-16.97973	0.17076	0.00170	-16.97791	0.17257	0.00351
27	-2.28646	0.03951	0.06792	-2.31653	0.00944	0.03785
28	-2.28610	0.04396	0.07558	-2.31956	0.01050	0.04212
29	-2.29411	0.04514	0.07760	-2.32846	0.01078	0.04325
30	-2.30026	0.05238	0.09005	-2.34013	0.01251	0.05018
31	-2.29442	0.05004	0.08603	-2.33251	0.01195	0.04794
32	-2.28875	0.04567	0.07852	-2.32352	0.01091	0.04376
33	-2.28398	0.04695	0.08073	-2.31972	0.01122	0.04499
34	-2.28127	0.03665	0.06301	-2.30917	0.00875	0.03511
35	-2.28405	0.03473	0.05971	-2.31049	0.00830	0.03328
36	-2.30110	0.06158	0.10587	-2.34797	0.01471	0.05900
37	-2.28908	0.07323	0.12589	-2.34482	0.01749	0.07016
38	-2.30060	0.05813	0.09994	-2.34484	0.01388	0.05569
39	-2.29849	0.05820	0.10007	-2.34279	0.01390	0.05577
40	-2.30665	0.05187	0.08917	-2.34613	0.01239	0.04970
41	-2.29943	0.06130	0.10539	-2.34609	0.01464	0.05873
42	-2.29696	0.06507	0.11187	-2.34649	0.01554	0.06234
43	-2.29818	0.06455	0.11098	-2.34731	0.01542	0.06185
44	-3.41295	0.21054	0.11415	-3.35793	0.26556	0.16917
45	-3.69337	0.13905	0.07540	-3.65703	0.17539	0.11174
46	-3.82588	0.11277	0.06115	-3.79641	0.14225	0.09062
47	-3.84133	0.11275	0.06113	-3.81186	0.14222	0.09060
48	-3.83984	0.08150	0.04419	-3.81854	0.10279	0.06548
49	-3.85288	0.10610	0.05753	-3.82515	0.13383	0.08526
50	-3.71076	0.15484	0.08396	-3.67030	0.19531	0.12442
51	-3.86904	0.08508	0.04613	-3.84681	0.10731	0.06836
52	-3.82482	0.10119	0.05486	-3.79837	0.12763	0.08131
53	-3.77602	0.11892	0.06448	-3.74494	0.15000	0.09556
54	-3.87698	0.08239	0.04467	-3.85545	0.10392	0.06620
55	-3.84330	0.11735	0.06363	-3.81263	0.14802	0.09430
56	-3.88737	0.07727	0.04189	-3.86718	0.09746	0.06209
57	-3.84698	0.09626	0.05219	-3.82182	0.12142	0.07735
58	-3.84292	0.10369	0.05622	-3.81582	0.13079	0.08332
59	-3.86908	0.09453	0.05125	-3.84438	0.11923	0.07596
60	-3.85046	0.08417	0.04564	-3.82846	0.10616	0.06763
61	-3.88209	0.07480	0.04056	-3.86254	0.09435	0.06011
62	-3.88737	0.07990	0.04332	-3.86649	0.10079	0.06421
63	-3.49092	0.06670	0.01451	-3.49243	0.06519	0.01301
64	-3.48985	0.05719	0.01244	-3.49114	0.05590	0.01115
65	-3.48081	0.05706	0.01241	-3.48210	0.05577	0.01113
66	-3.45861	0.05186	0.01128	-3.45978	0.05069	0.01011
67	-3.49457	0.08393	0.01826	-3.49646	0.08204	0.01637
68	-3.49903	0.09099	0.01980	-3.50108	0.08894	0.01775
69	-3.50826	0.11173	0.02431	-3.51078	0.10921	0.02179
70	-3.47624	0.04637	0.01009	-3.47728	0.04533	0.00904
71	-3.47999	0.05403	0.01176	-3.48121	0.05281	0.01054
72	-3.48616	0.05933	0.01291	-3.48750	0.05799	0.01157
73	-3.48171	0.06133	0.01334	-3.48309	0.05995	0.01196
74	-3.46775	0.05243	0.01141	-3.46893	0.05124	0.01022
75	-3.47122	0.04416	0.00961	-3.47222	0.04317	0.00861
76	-3.48005	0.03699	0.00805	-3.48088	0.03616	0.00721

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.24 The Elasticities with respect to Employment Rates from Model 3 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.19110	0.00480	0.00005	-0.19105	0.00485	0.00010
2	-0.18647	0.00855	0.00008	-0.18638	0.00864	0.00018
3	-0.19119	0.00526	0.00005	-0.19113	0.00532	0.00011
4	-0.18589	0.00943	0.00009	-0.18579	0.00953	0.00019
5	-0.18569	0.01088	0.00011	-0.18558	0.01099	0.00022
6	-0.19065	0.00477	0.00005	-0.19060	0.00482	0.00010
7	-0.19048	0.00416	0.00004	-0.19044	0.00420	0.00009
8	-0.19207	0.00362	0.00004	-0.19203	0.00366	0.00007
9	-0.18717	0.00911	0.00009	-0.18707	0.00921	0.00019
10	-0.18970	0.00525	0.00005	-0.18964	0.00531	0.00011
11	-0.19242	0.00415	0.00004	-0.19237	0.00419	0.00009
12	-0.19328	0.00308	0.00003	-0.19325	0.00311	0.00006
13	-0.19515	0.00226	0.00002	-0.19513	0.00228	0.00005
14	-0.19709	0.00044	0.00000	-0.19708	0.00044	0.00001
15	-0.18523	0.01060	0.00011	-0.18511	0.01072	0.00022
16	-0.18782	0.00730	0.00007	-0.18775	0.00738	0.00015
17	-0.18017	0.01683	0.00017	-0.17999	0.01701	0.00035
18	-0.18792	0.00471	0.00005	-0.18787	0.00476	0.00010
19	-0.19248	0.00320	0.00003	-0.19245	0.00324	0.00007
20	-0.19091	0.00494	0.00005	-0.19086	0.00499	0.00010
21	-0.19007	0.00738	0.00007	-0.18999	0.00746	0.00015
22	-0.19388	0.00308	0.00003	-0.19385	0.00311	0.00006
23	-0.19094	0.00637	0.00006	-0.19087	0.00644	0.00013
24	-0.18449	0.01304	0.00013	-0.18435	0.01318	0.00027
25	-0.18639	0.01010	0.00010	-0.18628	0.01021	0.00021
26	-0.19559	0.00197	0.00002	-0.19557	0.00199	0.00004
27	-0.02511	0.00043	0.00075	-0.02544	0.00010	0.00042
28	-0.02509	0.00048	0.00083	-0.02546	0.00012	0.00046
29	-0.02492	0.00049	0.00084	-0.02529	0.00012	0.00047
30	-0.02476	0.00056	0.00097	-0.02519	0.00013	0.00054
31	-0.02503	0.00055	0.00094	-0.02545	0.00013	0.00052
32	-0.02507	0.00050	0.00086	-0.02545	0.00012	0.00048
33	-0.02487	0.00051	0.00088	-0.02526	0.00012	0.00049
34	-0.02509	0.00040	0.00069	-0.02540	0.00010	0.00039
35	-0.02436	0.00037	0.00064	-0.02465	0.00009	0.00035
36	-0.02501	0.00067	0.00115	-0.02551	0.00016	0.00064
37	-0.02486	0.00080	0.00137	-0.02547	0.00019	0.00076
38	-0.02508	0.00063	0.00109	-0.02556	0.00015	0.00061
39	-0.02483	0.00063	0.00108	-0.02531	0.00015	0.00060
40	-0.02466	0.00055	0.00095	-0.02509	0.00013	0.00053
41	-0.02467	0.00066	0.00113	-0.02517	0.00016	0.00063
42	-0.02465	0.00070	0.00120	-0.02518	0.00017	0.00067
43	-0.02465	0.00069	0.00119	-0.02518	0.00017	0.00066
44	-0.03957	0.00244	0.00132	-0.03893	0.00308	0.00196
45	-0.04041	0.00152	0.00082	-0.04001	0.00192	0.00122
46	-0.04171	0.00123	0.00067	-0.04139	0.00155	0.00099
47	-0.04140	0.00122	0.00066	-0.04109	0.00153	0.00098
48	-0.04017	0.00085	0.00046	-0.03995	0.00108	0.00069
49	-0.04172	0.00115	0.00062	-0.04142	0.00145	0.00092
50	-0.04118	0.00172	0.00093	-0.04073	0.00217	0.00138
51	-0.04118	0.00091	0.00049	-0.04094	0.00114	0.00073
52	-0.04060	0.00107	0.00058	-0.04032	0.00135	0.00086
53	-0.04078	0.00128	0.00070	-0.04044	0.00162	0.00103
54	-0.04145	0.00088	0.00048	-0.04122	0.00111	0.00071
55	-0.04130	0.00126	0.00068	-0.04097	0.00159	0.00101
56	-0.04163	0.00083	0.00045	-0.04141	0.00104	0.00066
57	-0.04165	0.00104	0.00057	-0.04138	0.00131	0.00084
58	-0.04138	0.00112	0.00061	-0.04109	0.00141	0.00090
59	-0.04214	0.00103	0.00056	-0.04187	0.00130	0.00083
60	-0.03972	0.00087	0.00047	-0.03949	0.00110	0.00070
61	-0.04117	0.00079	0.00043	-0.04096	0.00100	0.00064
62	-0.04162	0.00086	0.00046	-0.04139	0.00108	0.00069
63	-0.03934	0.00075	0.00016	-0.03935	0.00073	0.00015
64	-0.03980	0.00065	0.00014	-0.03982	0.00064	0.00013
65	-0.03965	0.00065	0.00014	-0.03966	0.00064	0.00013
66	-0.03972	0.00060	0.00013	-0.03973	0.00058	0.00012
67	-0.03958	0.00095	0.00021	-0.03960	0.00093	0.00019
68	-0.03955	0.00103	0.00022	-0.03957	0.00101	0.00020
69	-0.03916	0.00125	0.00027	-0.03919	0.00122	0.00024
70	-0.03963	0.00053	0.00012	-0.03964	0.00052	0.00010
71	-0.03951	0.00061	0.00013	-0.03953	0.00060	0.00012
72	-0.03989	0.00068	0.00015	-0.03990	0.00066	0.00013
73	-0.03979	0.00070	0.00015	-0.03981	0.00069	0.00014
74	-0.03957	0.00060	0.00013	-0.03959	0.00058	0.00012
75	-0.04000	0.00051	0.00011	-0.04001	0.00050	0.00010
76	-0.03949	0.00042	0.00009	-0.03950	0.00041	0.00008

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.25 The Elasticities with respect to Distances from Model 3 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.77892	0.04472	0.00044	-1.77844	0.04519	0.00092
2	-1.95002	0.08937	0.00089	-1.94907	0.09032	0.00184
3	-1.92157	0.05287	0.00053	-1.92101	0.05344	0.00109
4	-1.96334	0.09963	0.00099	-1.96228	0.10069	0.00205
5	-2.20138	0.12897	0.00128	-2.20001	0.13034	0.00265
6	-2.49970	0.06254	0.00062	-2.49903	0.06321	0.00129
7	-2.98601	0.06519	0.00065	-2.98532	0.06589	0.00134
8	-2.79727	0.05277	0.00052	-2.79671	0.05333	0.00109
9	-3.15850	0.15371	0.00153	-3.15686	0.15535	0.00316
10	-2.45328	0.06790	0.00067	-2.45256	0.06863	0.00140
11	-2.48925	0.05364	0.00053	-2.48867	0.05421	0.00110
12	-3.33783	0.05313	0.00053	-3.33726	0.05370	0.00109
13	-4.03306	0.04670	0.00046	-4.03257	0.04719	0.00096
14	-4.77528	0.01060	0.00011	-4.77517	0.01072	0.00022
15	-2.26480	0.12967	0.00129	-2.26342	0.13105	0.00267
16	-2.71295	0.10542	0.00105	-2.71183	0.10655	0.00217
17	-2.29934	0.21480	0.00213	-2.29705	0.21709	0.00442
18	-3.50286	0.08788	0.00087	-3.50193	0.08882	0.00181
19	-2.63481	0.04387	0.00044	-2.63434	0.04434	0.00090
20	-2.85778	0.07391	0.00073	-2.85699	0.07470	0.00152
21	-2.64173	0.10263	0.00102	-2.64063	0.10372	0.00211
22	-2.26425	0.03594	0.00036	-2.26387	0.03633	0.00074
23	-2.06073	0.06872	0.00068	-2.05999	0.06945	0.00141
24	-2.26062	0.15982	0.00159	-2.25892	0.16152	0.00329
25	-2.73056	0.14795	0.00147	-2.72898	0.14953	0.00304
26	-4.19986	0.04224	0.00042	-4.19941	0.04269	0.00087
27	-1.02490	0.01771	0.03045	-1.03838	0.00423	0.01697
28	-0.98376	0.01892	0.03253	-0.99816	0.00452	0.01813
29	-0.90451	0.01780	0.03060	-0.91805	0.00425	0.01705
30	-0.75377	0.01716	0.02951	-0.76683	0.00410	0.01644
31	-0.83329	0.01817	0.03124	-0.84712	0.00434	0.01741
32	-0.98915	0.01974	0.03394	-1.00418	0.00471	0.01891
33	-1.02093	0.02099	0.03608	-1.03691	0.00501	0.02011
34	-1.19262	0.01916	0.03294	-1.20720	0.00458	0.01836
35	-1.34335	0.02043	0.03512	-1.35890	0.00488	0.01957
36	-0.46806	0.01253	0.02153	-0.47760	0.00299	0.01200
37	-0.43934	0.01405	0.02416	-0.45003	0.00336	0.01347
38	-0.61889	0.01564	0.02689	-0.63080	0.00374	0.01498
39	-0.68132	0.01725	0.02966	-0.69446	0.00412	0.01653
40	-0.67643	0.01521	0.02615	-0.68800	0.00363	0.01457
41	-0.61437	0.01638	0.02816	-0.62684	0.00391	0.01569
42	-0.58221	0.01649	0.02836	-0.59477	0.00394	0.01580
43	-0.60485	0.01699	0.02921	-0.61778	0.00406	0.01628
44	-0.83274	0.05137	0.02785	-0.81932	0.06479	0.04128
45	-1.10414	0.04157	0.02254	-1.09327	0.05243	0.03340
46	-1.21179	0.03572	0.01937	-1.20245	0.04505	0.02870
47	-1.43158	0.04202	0.02278	-1.42059	0.05300	0.03376
48	-1.56573	0.03323	0.01802	-1.55705	0.04191	0.02670
49	-1.39139	0.03832	0.02078	-1.38137	0.04833	0.03079
50	-0.96576	0.04030	0.02185	-0.95523	0.05083	0.03238
51	-1.53373	0.03373	0.01829	-1.52492	0.04254	0.02710
52	-1.35744	0.03591	0.01947	-1.34805	0.04530	0.02886
53	-1.19121	0.03751	0.02034	-1.18140	0.04732	0.03014
54	-1.47740	0.03140	0.01702	-1.46919	0.03960	0.02523
55	-1.35824	0.04147	0.02249	-1.34740	0.05231	0.03333
56	-1.59654	0.03173	0.01721	-1.58824	0.04003	0.02550
57	-1.25715	0.03146	0.01706	-1.24893	0.03968	0.02528
58	-1.32535	0.03576	0.01939	-1.31600	0.04511	0.02874
59	-1.34712	0.03291	0.01785	-1.33852	0.04151	0.02645
60	-1.63148	0.03566	0.01934	-1.62216	0.04498	0.02866
61	-1.83367	0.03533	0.01916	-1.82444	0.04457	0.02839
62	-1.62808	0.03346	0.01814	-1.61934	0.04221	0.02689
63	-1.76900	0.03380	0.00735	-1.76976	0.03304	0.00659
64	-1.77611	0.02911	0.00633	-1.77677	0.02845	0.00568
65	-1.78656	0.02929	0.00637	-1.78722	0.02862	0.00571
66	-2.00454	0.03006	0.00654	-2.00522	0.02938	0.00586
67	-1.46183	0.03511	0.00764	-1.46262	0.03432	0.00685
68	-1.35650	0.03527	0.00768	-1.35729	0.03448	0.00688
69	-1.13844	0.03626	0.00789	-1.13926	0.03544	0.00707
70	-2.13364	0.02846	0.00619	-2.13429	0.02782	0.00555
71	-2.12945	0.03306	0.00719	-2.13019	0.03232	0.00645
72	-1.87003	0.03182	0.00692	-1.87074	0.03111	0.00621
73	-1.90018	0.03347	0.00728	-1.90094	0.03272	0.00653
74	-2.25826	0.03414	0.00743	-2.25903	0.03337	0.00666
75	-2.36946	0.03015	0.00656	-2.37014	0.02947	0.00588
76	-2.44933	0.02603	0.00566	-2.44992	0.02545	0.00508

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.26 The Elasticities with respect to Food Expense Shares from Model 3 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	1.89913	-0.04774	-0.00047	1.89862	-0.04825	-0.00098
2	2.61117	-0.11967	-0.00119	2.60989	-0.12095	-0.00246
3	2.13905	-0.05886	-0.00058	2.13842	-0.05948	-0.00121
4	2.71116	-0.13757	-0.00137	2.70970	-0.13904	-0.00283
5	2.96043	-0.17344	-0.00172	2.95858	-0.17528	-0.00357
6	2.45672	-0.06147	-0.00061	2.45606	-0.06212	-0.00126
7	2.67971	-0.05850	-0.00058	2.67909	-0.05913	-0.00120
8	2.47768	-0.04674	-0.00046	2.47718	-0.04724	-0.00096
9	3.67032	-0.17862	-0.00177	3.66842	-0.18052	-0.00368
10	2.50167	-0.06924	-0.00069	2.50093	-0.06998	-0.00142
11	2.36507	-0.05096	-0.00051	2.36453	-0.05151	-0.00105
12	2.69258	-0.04286	-0.00043	2.69213	-0.04332	-0.00088
13	2.97415	-0.03444	-0.00034	2.97378	-0.03480	-0.00071
14	1.97352	-0.00438	-0.00004	1.97348	-0.00443	-0.00009
15	3.07571	-0.17609	-0.00175	3.07383	-0.17797	-0.00362
16	3.11135	-0.12090	-0.00120	3.11006	-0.12219	-0.00249
17	3.42821	-0.32026	-0.00318	3.42480	-0.32367	-0.00659
18	3.45699	-0.08673	-0.00086	3.45607	-0.08766	-0.00178
19	2.12295	-0.03535	-0.00035	2.12258	-0.03572	-0.00073
20	2.82077	-0.07295	-0.00072	2.81999	-0.07373	-0.00150
21	3.01748	-0.11723	-0.00116	3.01623	-0.11848	-0.00241
22	1.65370	-0.02625	-0.00026	1.65342	-0.02653	-0.00054
23	2.28158	-0.07609	-0.00076	2.28077	-0.07690	-0.00157
24	3.11451	-0.22019	-0.00219	3.11216	-0.22253	-0.00453
25	3.39501	-0.18395	-0.00183	3.39305	-0.18591	-0.00379
26	3.14618	-0.03164	-0.00031	3.14585	-0.03198	-0.00065
27	0.36034	-0.00623	-0.01070	0.36507	-0.00149	-0.00597
28	0.42717	-0.00821	-0.01412	0.43342	-0.00196	-0.00787
29	0.35778	-0.00704	-0.01210	0.36314	-0.00168	-0.00674
30	0.42000	-0.00956	-0.01644	0.42728	-0.00228	-0.00916
31	0.41572	-0.00907	-0.01559	0.42262	-0.00217	-0.00869
32	0.49672	-0.00991	-0.01704	0.50427	-0.00237	-0.00950
33	0.55275	-0.01136	-0.01954	0.56140	-0.00271	-0.01089
34	0.48437	-0.00778	-0.01338	0.49030	-0.00186	-0.00746
35	0.59759	-0.00909	-0.01562	0.60450	-0.00217	-0.00871
36	0.25831	-0.00691	-0.01188	0.26357	-0.00165	-0.00662
37	0.40850	-0.01307	-0.02247	0.41845	-0.00312	-0.01252
38	0.35331	-0.00893	-0.01535	0.36010	-0.00213	-0.00855
39	0.43162	-0.01093	-0.01879	0.43994	-0.00261	-0.01047
40	0.29700	-0.00668	-0.01148	0.30208	-0.00160	-0.00640
41	0.40205	-0.01072	-0.01843	0.41021	-0.00256	-0.01027
42	0.42809	-0.01213	-0.02085	0.43732	-0.00290	-0.01162
43	0.45380	-0.01275	-0.02191	0.46350	-0.00304	-0.01221
44	0.73378	-0.04526	-0.02454	0.72195	-0.05709	-0.03637
45	0.79802	-0.03005	-0.01629	0.79017	-0.03790	-0.02414
46	0.76835	-0.02265	-0.01228	0.76243	-0.02857	-0.01820
47	1.01716	-0.02986	-0.01619	1.00935	-0.03766	-0.02399
48	0.77179	-0.01638	-0.00888	0.76751	-0.02066	-0.01316
49	0.89541	-0.02466	-0.01337	0.88897	-0.03110	-0.01981
50	0.75117	-0.03135	-0.01700	0.74298	-0.03954	-0.02519
51	0.78528	-0.01727	-0.00936	0.78076	-0.02178	-0.01387
52	0.80476	-0.02129	-0.01154	0.79920	-0.02685	-0.01711
53	0.75234	-0.02369	-0.01285	0.74615	-0.02989	-0.01904
54	0.72680	-0.01544	-0.00837	0.72276	-0.01948	-0.01241
55	0.94720	-0.02892	-0.01568	0.93964	-0.03648	-0.02324
56	0.78266	-0.01556	-0.00843	0.77859	-0.01962	-0.01250
57	0.62965	-0.01576	-0.00854	0.62553	-0.01987	-0.01266
58	0.79404	-0.02143	-0.01162	0.78844	-0.02702	-0.01722
59	0.71946	-0.01758	-0.00953	0.71487	-0.02217	-0.01412
60	0.88062	-0.01925	-0.01044	0.87559	-0.02428	-0.01547
61	0.99157	-0.01911	-0.01036	0.98658	-0.02410	-0.01535
62	0.83452	-0.01715	-0.00930	0.83004	-0.02164	-0.01378
63	0.57947	-0.01107	-0.00241	0.57972	-0.01082	-0.00216
64	0.41871	-0.00686	-0.00149	0.41887	-0.00671	-0.00134
65	0.40644	-0.00666	-0.00145	0.40659	-0.00651	-0.00130
66	0.53904	-0.00808	-0.00176	0.53922	-0.00790	-0.00158
67	0.51377	-0.01234	-0.00268	0.51405	-0.01206	-0.00241
68	0.53592	-0.01394	-0.00303	0.53623	-0.01362	-0.00272
69	0.50807	-0.01618	-0.00352	0.50844	-0.01582	-0.00316
70	0.54936	-0.00733	-0.00159	0.54952	-0.00716	-0.00143
71	0.72041	-0.01119	-0.00243	0.72066	-0.01093	-0.00218
72	0.54948	-0.00935	-0.00203	0.54969	-0.00914	-0.00182
73	0.62523	-0.01101	-0.00240	0.62548	-0.01076	-0.00215
74	0.83356	-0.01260	-0.00274	0.83384	-0.01232	-0.00246
75	0.75567	-0.00961	-0.00209	0.75589	-0.00940	-0.00188
76	0.66158	-0.00703	-0.00153	0.66174	-0.00687	-0.00137

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.27 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 2 in 2006

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.43468	0.01093	0.00011	-0.43456	0.01104	0.00022
2	-0.44975	0.02061	0.00020	-0.44953	0.02083	0.00042
3	-0.34124	0.00939	0.00009	-0.34114	0.00949	0.00019
4	-0.30859	0.01566	0.00016	-0.30842	0.01583	0.00032
5	-0.35723	0.02093	0.00021	-0.35701	0.02115	0.00043
6	-0.39639	0.00992	0.00010	-0.39628	0.01002	0.00020
7	-0.34250	0.00748	0.00007	-0.34242	0.00756	0.00015
8	-0.39016	0.00736	0.00007	-0.39008	0.00744	0.00015
9	-0.51261	0.02495	0.00025	-0.51235	0.02521	0.00051
10	-0.33789	0.00935	0.00009	-0.33779	0.00945	0.00019
11	-0.33080	0.00713	0.00007	-0.33072	0.00720	0.00015
12	-0.34831	0.00554	0.00006	-0.34825	0.00560	0.00011
13	-0.32933	0.00381	0.00004	-0.32929	0.00385	0.00008
14	-0.33752	0.00075	0.00001	-0.33751	0.00076	0.00002
15	-0.39365	0.02254	0.00022	-0.39341	0.02278	0.00046
16	-0.41476	0.01612	0.00016	-0.41459	0.01629	0.00033
17	-0.45189	0.04222	0.00042	-0.45144	0.04266	0.00087
18	-0.57756	0.01449	0.00014	-0.57740	0.01464	0.00030
19	-0.30007	0.00500	0.00005	-0.30002	0.00505	0.00010
20	-0.42280	0.01093	0.00011	-0.42268	0.01105	0.00023
21	-0.46055	0.01789	0.00018	-0.46036	0.01808	0.00037
22	-0.22291	0.00354	0.00004	-0.22288	0.00358	0.00007
23	-0.39910	0.01331	0.00013	-0.39895	0.01345	0.00027
24	-0.43610	0.03083	0.00031	-0.43578	0.03116	0.00063
25	-0.43191	0.02340	0.00023	-0.43166	0.02365	0.00048
26	-0.41839	0.00421	0.00004	-0.41835	0.00425	0.00009
27	-0.05271	0.00091	0.00157	-0.05341	0.00022	0.00087
28	-0.05477	0.00105	0.00181	-0.05557	0.00025	0.00101
29	-0.04985	0.00098	0.00169	-0.05060	0.00023	0.00094
30	-0.05440	0.00124	0.00213	-0.05534	0.00030	0.00119
31	-0.06182	0.00135	0.00232	-0.06285	0.00032	0.00129
32	-0.07267	0.00145	0.00249	-0.07378	0.00035	0.00139
33	-0.07545	0.00155	0.00267	-0.07663	0.00037	0.00149
34	-0.07566	0.00122	0.00209	-0.07659	0.00029	0.00116
35	-0.11700	0.00178	0.00306	-0.11836	0.00042	0.00170
36	-0.05271	0.00141	0.00243	-0.05378	0.00034	0.00135
37	-0.05757	0.00184	0.00317	-0.05898	0.00044	0.00176
38	-0.05087	0.00129	0.00221	-0.05185	0.00031	0.00123
39	-0.06952	0.00176	0.00303	-0.07086	0.00042	0.00169
40	-0.05668	0.00127	0.00219	-0.05765	0.00030	0.00122
41	-0.05502	0.00147	0.00252	-0.05614	0.00035	0.00141
42	-0.05862	0.00166	0.00286	-0.05989	0.00040	0.00159
43	-0.06853	0.00192	0.00331	-0.07000	0.00046	0.00184
44	-0.09014	0.00556	0.00301	-0.08869	0.00701	0.00447
45	-0.12806	0.00482	0.00261	-0.12680	0.00608	0.00387
46	-0.10659	0.00314	0.00170	-0.10577	0.00396	0.00252
47	-0.13400	0.00393	0.00213	-0.13297	0.00496	0.00316
48	-0.10315	0.00219	0.00119	-0.10258	0.00276	0.00176
49	-0.12473	0.00343	0.00186	-0.12383	0.00433	0.00276
50	-0.10415	0.00435	0.00236	-0.10301	0.00548	0.00349
51	-0.09462	0.00208	0.00113	-0.09408	0.00262	0.00167
52	-0.11280	0.00298	0.00162	-0.11202	0.00376	0.00240
53	-0.11068	0.00349	0.00189	-0.10977	0.00440	0.00280
54	-0.08875	0.00189	0.00102	-0.08825	0.00238	0.00152
55	-0.09906	0.00302	0.00164	-0.09827	0.00382	0.00243
56	-0.09698	0.00193	0.00105	-0.09647	0.00243	0.00155
57	-0.09329	0.00233	0.00127	-0.09268	0.00294	0.00188
58	-0.11613	0.00313	0.00170	-0.11531	0.00395	0.00252
59	-0.10047	0.00245	0.00133	-0.09983	0.00310	0.00197
60	-0.10994	0.00240	0.00130	-0.10931	0.00303	0.00193
61	-0.12604	0.00243	0.00132	-0.12541	0.00306	0.00195
62	-0.09056	0.00186	0.00101	-0.09007	0.00235	0.00150
63	-0.08082	0.00154	0.00034	-0.08086	0.00151	0.00030
64	-0.07439	0.00122	0.00027	-0.07442	0.00119	0.00024
65	-0.04586	0.00075	0.00016	-0.04587	0.00073	0.00015
66	-0.06344	0.00095	0.00021	-0.06346	0.00093	0.00019
67	-0.06236	0.00150	0.00033	-0.06239	0.00146	0.00029
68	-0.07191	0.00187	0.00041	-0.07196	0.00183	0.00036
69	-0.07828	0.00249	0.00054	-0.07834	0.00244	0.00049
70	-0.06457	0.00086	0.00019	-0.06459	0.00084	0.00017
71	-0.09704	0.00151	0.00033	-0.09708	0.00147	0.00029
72	-0.06691	0.00114	0.00025	-0.06693	0.00111	0.00022
73	-0.07780	0.00137	0.00030	-0.07783	0.00134	0.00027
74	-0.11994	0.00181	0.00039	-0.11998	0.00177	0.00035
75	-0.09658	0.00123	0.00027	-0.09661	0.00120	0.00024
76	-0.12252	0.00130	0.00028	-0.12255	0.00127	0.00025

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.28 The Elasticities with respect to Wages from Model 2 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.83467	0.02295	0.00662	-1.82954	0.02808	0.01175
2	-1.85105	0.02178	0.00628	-1.84618	0.02665	0.01115
3	-1.82766	0.02221	0.00641	-1.82270	0.02718	0.01137
4	-1.83761	0.02183	0.00630	-1.83273	0.02671	0.01118
5	-1.83874	0.02084	0.00601	-1.83408	0.02550	0.01067
6	-1.83753	0.01983	0.00572	-1.83310	0.02426	0.01015
7	-1.84877	0.01771	0.00511	-1.84481	0.02166	0.00906
8	-1.84966	0.01859	0.00536	-1.84550	0.02274	0.00952
9	-1.84087	0.01682	0.00485	-1.83712	0.02058	0.00861
10	-1.83856	0.01974	0.00569	-1.83415	0.02415	0.01010
11	-1.83432	0.01931	0.00557	-1.83001	0.02362	0.00988
12	-1.84131	0.01612	0.00465	-1.83771	0.01972	0.00825
13	-1.83165	0.01393	0.00402	-1.82854	0.01704	0.00713
14	-1.82867	0.01191	0.00343	-1.82601	0.01457	0.00609
15	-1.85084	0.01991	0.00574	-1.84640	0.02435	0.01019
16	-1.83324	0.01820	0.00525	-1.82917	0.02226	0.00931
17	-1.83439	0.01941	0.00560	-1.83005	0.02374	0.00993
18	-1.90027	0.01518	0.00438	-1.89688	0.01857	0.00777
19	-1.83845	0.01904	0.00549	-1.83419	0.02329	0.00974
20	-1.82851	0.01796	0.00518	-1.82450	0.02197	0.00919
21	-1.82875	0.01902	0.00549	-1.82450	0.02327	0.00974
22	-1.83578	0.02062	0.00595	-1.83117	0.02523	0.01055
23	-1.82973	0.02150	0.00620	-1.82492	0.02630	0.01100
24	-1.82612	0.02017	0.00582	-1.82161	0.02467	0.01032
25	-1.83044	0.01830	0.00528	-1.82635	0.02239	0.00937
26	-1.83255	0.01371	0.00395	-1.82948	0.01677	0.00702
27	-0.51751	-0.01642	0.03780	-0.53914	-0.03805	0.01616
28	-0.51680	-0.01669	0.03843	-0.53879	-0.03869	0.01643
29	-0.51950	-0.01739	0.04003	-0.54241	-0.04030	0.01712
30	-0.52025	-0.01861	0.04285	-0.54477	-0.04314	0.01832
31	-0.51898	-0.01792	0.04125	-0.54259	-0.04153	0.01764
32	-0.52074	-0.01679	0.03865	-0.54286	-0.03891	0.01653
33	-0.51724	-0.01643	0.03782	-0.53889	-0.03808	0.01617
34	-0.51598	-0.01522	0.03505	-0.53604	-0.03528	0.01499
35	-0.51750	-0.01429	0.03290	-0.53633	-0.03312	0.01407
36	-0.52293	-0.02115	0.04870	-0.55080	-0.04903	0.02082
37	-0.52265	-0.02137	0.04921	-0.55082	-0.04954	0.02104
38	-0.52198	-0.01983	0.04565	-0.54811	-0.04595	0.01952
39	-0.52022	-0.01922	0.04424	-0.54554	-0.04454	0.01892
40	-0.52354	-0.01939	0.04464	-0.54909	-0.04494	0.01909
41	-0.52165	-0.01986	0.04573	-0.54783	-0.04604	0.01956
42	-0.52312	-0.02018	0.04645	-0.54971	-0.04677	0.01987
43	-0.52179	-0.01987	0.04574	-0.54797	-0.04605	0.01956
44	-0.68843	-0.02671	0.03105	-0.67166	-0.00994	0.04782
45	-0.68522	-0.02439	0.02835	-0.66991	-0.00908	0.04367
46	-0.66968	-0.02323	0.02700	-0.65509	-0.00865	0.04158
47	-0.67740	-0.02168	0.02520	-0.66379	-0.00807	0.03881
48	-0.68474	-0.02091	0.02430	-0.67161	-0.00778	0.03743
49	-0.67439	-0.02195	0.02551	-0.66061	-0.00817	0.03929
50	-0.67932	-0.02547	0.02961	-0.66333	-0.00948	0.04560
51	-0.66898	-0.02084	0.02422	-0.65590	-0.00776	0.03730
52	-0.69535	-0.02270	0.02638	-0.68110	-0.00845	0.04063
53	-0.67671	-0.02358	0.02741	-0.66191	-0.00878	0.04221
54	-0.68805	-0.02172	0.02525	-0.67441	-0.00809	0.03889
55	-0.67623	-0.02230	0.02592	-0.66223	-0.00830	0.03992
56	-0.66833	-0.02053	0.02386	-0.65544	-0.00764	0.03675
57	-0.67755	-0.02310	0.02685	-0.66304	-0.00860	0.04135
58	-0.67218	-0.02242	0.02605	-0.65810	-0.00834	0.04013
59	-0.66814	-0.02223	0.02583	-0.65419	-0.00827	0.03978
60	-0.68054	-0.02043	0.02374	-0.66772	-0.00760	0.03656
61	-0.67009	-0.01890	0.02196	-0.65823	-0.00703	0.03382
62	-0.66666	-0.01968	0.02287	-0.65431	-0.00732	0.03522
63	-10.56355	0.07234	0.00156	-10.56322	0.07267	0.00189
64	-9.94683	0.11847	0.00255	-9.94629	0.11902	0.00310
65	-9.94159	0.11800	0.00254	-9.94105	0.11854	0.00308
66	-11.84948	0.00651	0.00014	-11.84945	0.00654	0.00017
67	-9.31399	0.79353	0.01709	-9.31035	0.79718	0.02074
68	-8.49173	1.59595	0.03437	-8.48440	1.60329	0.04170
69	-4.17232	5.94837	0.12811	-4.14499	5.97570	0.15544
70	-10.08660	0.01187	0.00026	-10.08655	0.01193	0.00031
71	-10.02718	0.01283	0.00028	-10.02712	0.01289	0.00034
72	-9.95414	0.06365	0.00137	-9.95384	0.06394	0.00166
73	-10.08258	0.04863	0.00105	-10.08235	0.04885	0.00127
74	-10.03554	0.00555	0.00012	-10.03552	0.00558	0.00015
75	-10.07986	0.00286	0.00006	-10.07985	0.00287	0.00007
76	-10.14773	0.00169	0.00004	-10.14773	0.00170	0.00004

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.29 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.66604	0.00833	0.00240	-0.66418	0.01019	0.00426
2	-0.66104	0.00778	0.00224	-0.65930	0.00952	0.00398
3	-0.66961	0.00814	0.00235	-0.66779	0.00996	0.00417
4	-0.66501	0.00790	0.00228	-0.66325	0.00967	0.00404
5	-0.66473	0.00753	0.00217	-0.66305	0.00922	0.00386
6	-0.66538	0.00718	0.00207	-0.66378	0.00879	0.00368
7	-0.66165	0.00634	0.00183	-0.66024	0.00775	0.00324
8	-0.66134	0.00665	0.00192	-0.65986	0.00813	0.00340
9	-0.66454	0.00607	0.00175	-0.66319	0.00743	0.00311
10	-0.66501	0.00714	0.00206	-0.66341	0.00874	0.00365
11	-0.66745	0.00703	0.00203	-0.66588	0.00860	0.00360
12	-0.66507	0.00582	0.00168	-0.66377	0.00712	0.00298
13	-0.67081	0.00510	0.00147	-0.66967	0.00624	0.00261
14	-0.67447	0.00439	0.00127	-0.67349	0.00537	0.00225
15	-0.66124	0.00711	0.00205	-0.65965	0.00870	0.00364
16	-0.66817	0.00663	0.00191	-0.66669	0.00811	0.00339
17	-0.66705	0.00706	0.00204	-0.66548	0.00863	0.00361
18	-0.65133	0.00520	0.00150	-0.65016	0.00637	0.00266
19	-0.66569	0.00689	0.00199	-0.66415	0.00843	0.00353
20	-0.67134	0.00659	0.00190	-0.66987	0.00807	0.00337
21	-0.67012	0.00697	0.00201	-0.66856	0.00853	0.00357
22	-0.66634	0.00748	0.00216	-0.66467	0.00916	0.00383
23	-0.66891	0.00786	0.00227	-0.66716	0.00962	0.00402
24	-0.67184	0.00742	0.00214	-0.67018	0.00908	0.00380
25	-0.66998	0.00670	0.00193	-0.66848	0.00819	0.00343
26	-0.67107	0.00502	0.00145	-0.66995	0.00614	0.00257
27	-0.18499	-0.00587	0.01351	-0.19272	-0.01360	0.00578
28	-0.18630	-0.00602	0.01385	-0.19423	-0.01395	0.00592
29	-0.18485	-0.00619	0.01424	-0.19300	-0.01434	0.00609
30	-0.18641	-0.00667	0.01535	-0.19520	-0.01546	0.00657
31	-0.18638	-0.00644	0.01482	-0.19486	-0.01492	0.00634
32	-0.18257	-0.00589	0.01355	-0.19032	-0.01364	0.00579
33	-0.18524	-0.00588	0.01355	-0.19299	-0.01364	0.00579
34	-0.18410	-0.00543	0.01251	-0.19126	-0.01259	0.00535
35	-0.18070	-0.00499	0.01149	-0.18728	-0.01156	0.00491
36	-0.18848	-0.00762	0.01755	-0.19853	-0.01767	0.00751
37	-0.18917	-0.00774	0.01781	-0.19937	-0.01793	0.00762
38	-0.18697	-0.00710	0.01635	-0.19633	-0.01646	0.00699
39	-0.18760	-0.00693	0.01595	-0.19673	-0.01606	0.00682
40	-0.18480	-0.00684	0.01576	-0.19381	-0.01586	0.00674
41	-0.18735	-0.00713	0.01642	-0.19675	-0.01653	0.00702
42	-0.18653	-0.00719	0.01656	-0.19601	-0.01668	0.00708
43	-0.18721	-0.00713	0.01641	-0.19660	-0.01652	0.00702
44	-0.23487	-0.00911	0.01059	-0.22915	-0.00339	0.01631
45	-0.23347	-0.00831	0.00966	-0.22825	-0.00309	0.01488
46	-0.23901	-0.00829	0.00964	-0.23381	-0.00309	0.01484
47	-0.23336	-0.00747	0.00868	-0.22867	-0.00278	0.01337
48	-0.22953	-0.00701	0.00815	-0.22513	-0.00261	0.01255
49	-0.23500	-0.00765	0.00889	-0.23020	-0.00285	0.01369
50	-0.23716	-0.00889	0.01034	-0.23158	-0.00331	0.01592
51	-0.23612	-0.00735	0.00855	-0.23150	-0.00274	0.01317
52	-0.22780	-0.00744	0.00864	-0.22313	-0.00277	0.01331
53	-0.23601	-0.00822	0.00956	-0.23085	-0.00306	0.01472
54	-0.22923	-0.00724	0.00841	-0.22469	-0.00269	0.01296
55	-0.23459	-0.00774	0.00899	-0.22973	-0.00288	0.01385
56	-0.23601	-0.00725	0.00843	-0.23146	-0.00270	0.01298
57	-0.23504	-0.00801	0.00931	-0.23001	-0.00298	0.01435
58	-0.23663	-0.00789	0.00917	-0.23168	-0.00294	0.01413
59	-0.23844	-0.00793	0.00922	-0.23346	-0.00295	0.01420
60	-0.23049	-0.00692	0.00804	-0.22615	-0.00257	0.01238
61	-0.23293	-0.00657	0.00763	-0.22881	-0.00244	0.01176
62	-0.23571	-0.00696	0.00809	-0.23134	-0.00259	0.01245
63	-3.62543	0.02483	0.00053	-3.62531	0.02494	0.00065
64	-3.64549	0.04342	0.00094	-3.64529	0.04362	0.00113
65	-3.64978	0.04332	0.00093	-3.64958	0.04352	0.00113
66	-3.66806	0.00202	0.00004	-3.66805	0.00203	0.00005
67	-3.40613	0.29020	0.00625	-3.40479	0.29153	0.00758
68	-3.11957	0.58630	0.01263	-3.11688	0.58899	0.01532
69	-1.53144	2.18333	0.04702	-1.52141	2.19336	0.05705
70	-3.66057	0.00431	0.00009	-3.66055	0.00433	0.00011
71	-3.68081	0.00471	0.00010	-3.68078	0.00473	0.00012
72	-3.68996	0.02359	0.00051	-3.68985	0.02370	0.00062
73	-3.65104	0.01761	0.00038	-3.65096	0.01769	0.00046
74	-3.67130	0.00203	0.00004	-3.67129	0.00204	0.00005
75	-3.65281	0.00104	0.00002	-3.65280	0.00104	0.00003
76	-3.63600	0.00061	0.00001	-3.63600	0.00061	0.00002

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.30 The Elasticities with respect to Distances from Model 2 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.35033	0.00438	0.00126	-0.34935	0.00536	0.00224
2	-0.40061	0.00471	0.00136	-0.39956	0.00577	0.00241
3	-0.38272	0.00465	0.00134	-0.38168	0.00569	0.00238
4	-0.40033	0.00476	0.00137	-0.39926	0.00582	0.00243
5	-0.44713	0.00507	0.00146	-0.44600	0.00620	0.00259
6	-0.49721	0.00537	0.00155	-0.49601	0.00657	0.00275
7	-0.61036	0.00585	0.00169	-0.60905	0.00715	0.00299
8	-0.56113	0.00564	0.00163	-0.55987	0.00690	0.00289
9	-0.66295	0.00606	0.00175	-0.66159	0.00741	0.00310
10	-0.50172	0.00539	0.00155	-0.50052	0.00659	0.00276
11	-0.52367	0.00551	0.00159	-0.52244	0.00674	0.00282
12	-0.70535	0.00617	0.00178	-0.70397	0.00755	0.00316
13	-0.85166	0.00648	0.00187	-0.85022	0.00792	0.00331
14	-1.00754	0.00656	0.00189	-1.00607	0.00803	0.00336
15	-0.49154	0.00529	0.00152	-0.49036	0.00647	0.00271
16	-0.58324	0.00579	0.00167	-0.58194	0.00708	0.00296
17	-0.51876	0.00549	0.00158	-0.51754	0.00672	0.00281
18	-0.75263	0.00601	0.00173	-0.75129	0.00736	0.00308
19	-0.53780	0.00557	0.00161	-0.53655	0.00681	0.00285
20	-0.59562	0.00585	0.00169	-0.59431	0.00716	0.00299
21	-0.53868	0.00560	0.00162	-0.53743	0.00685	0.00287
22	-0.45769	0.00514	0.00148	-0.45654	0.00629	0.00263
23	-0.41558	0.00488	0.00141	-0.41449	0.00597	0.00250
24	-0.47885	0.00529	0.00153	-0.47767	0.00647	0.00271
25	-0.57721	0.00577	0.00166	-0.57592	0.00706	0.00295
26	-0.86708	0.00649	0.00187	-0.86563	0.00793	0.00332
27	-0.46915	-0.01488	0.03427	-0.48876	-0.03450	0.01465
28	-0.45008	-0.01454	0.03347	-0.46924	-0.03369	0.01431
29	-0.41223	-0.01380	0.03176	-0.43041	-0.03198	0.01358
30	-0.34100	-0.01220	0.02808	-0.35707	-0.02827	0.01201
31	-0.37897	-0.01309	0.03013	-0.39621	-0.03033	0.01288
32	-0.45193	-0.01457	0.03354	-0.47113	-0.03376	0.01434
33	-0.46790	-0.01486	0.03422	-0.48749	-0.03445	0.01463
34	-0.54602	-0.01611	0.03709	-0.56725	-0.03734	0.01586
35	-0.61567	-0.01700	0.03914	-0.63807	-0.03940	0.01674
36	-0.20826	-0.00842	0.01939	-0.21936	-0.01952	0.00829
37	-0.19637	-0.00803	0.01849	-0.20696	-0.01861	0.00791
38	-0.27641	-0.01050	0.02417	-0.29025	-0.02433	0.01034
39	-0.30662	-0.01133	0.02607	-0.32154	-0.02625	0.01115
40	-0.30330	-0.01123	0.02586	-0.31810	-0.02604	0.01106
41	-0.27378	-0.01043	0.02400	-0.28752	-0.02416	0.01026
42	-0.25968	-0.01002	0.02306	-0.27288	-0.02322	0.00986
43	-0.27377	-0.01042	0.02400	-0.28751	-0.02416	0.01026

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.30202	-0.01172	0.01362	-0.29466	-0.00436	0.02098
45	-0.39532	-0.01407	0.01636	-0.38649	-0.00524	0.02519
46	-0.43190	-0.01498	0.01741	-0.42250	-0.00558	0.02682
47	-0.51215	-0.01639	0.01905	-0.50186	-0.00610	0.02934
48	-0.55655	-0.01699	0.01975	-0.54588	-0.00632	0.03042
49	-0.49654	-0.01616	0.01878	-0.48639	-0.00601	0.02892
50	-0.34403	-0.01290	0.01499	-0.33593	-0.00480	0.02309
51	-0.54548	-0.01699	0.01975	-0.53481	-0.00632	0.03041
52	-0.47968	-0.01566	0.01820	-0.46985	-0.00583	0.02803
53	-0.42320	-0.01475	0.01714	-0.41395	-0.00549	0.02640
54	-0.51945	-0.01640	0.01906	-0.50916	-0.00610	0.02936
55	-0.48154	-0.01588	0.01846	-0.47157	-0.00591	0.02843
56	-0.56028	-0.01721	0.02001	-0.54947	-0.00641	0.03081
57	-0.44563	-0.01519	0.01766	-0.43609	-0.00565	0.02720
58	-0.47210	-0.01574	0.01830	-0.46221	-0.00586	0.02818
59	-0.47692	-0.01586	0.01844	-0.46696	-0.00590	0.02840
60	-0.57731	-0.01733	0.02014	-0.56643	-0.00645	0.03102
61	-0.64865	-0.01829	0.02126	-0.63717	-0.00681	0.03274
62	-0.60298	-0.01780	0.02068	-0.59181	-0.00662	0.03186
63	-10.44534	0.07153	0.00154	-10.44501	0.07186	0.00187
64	-10.37671	0.12359	0.00266	-10.37614	0.12416	0.00323
65	-10.38208	0.12322	0.00265	-10.38152	0.12379	0.00322
66	-11.78651	0.00648	0.00014	-11.78648	0.00651	0.00017
67	-7.88156	0.67149	0.01446	-7.87848	0.67458	0.01755
68	-6.61872	1.24394	0.02679	-6.61300	1.24965	0.03251
69	-2.68312	3.82525	0.08238	-2.66554	3.84282	0.09996
70	-12.77970	0.01505	0.00032	-12.77963	0.01511	0.00039
71	-12.73312	0.01629	0.00035	-12.73304	0.01637	0.00043
72	-11.06901	0.07078	0.00152	-11.06869	0.07110	0.00185
73	-11.29718	0.05449	0.00117	-11.29693	0.05474	0.00142
74	-13.59023	0.00752	0.00016	-13.59020	0.00756	0.00020
75	-14.23913	0.00404	0.00009	-14.23911	0.00406	0.00011
76	-14.72310	0.00245	0.00005	-14.72309	0.00247	0.00006

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.31 The Elasticities with respect to Wages from Model 3 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.02097	0.00015	0.00017	-0.02096	0.00017	0.00019
2	-0.02115	0.00015	0.00017	-0.02113	0.00017	0.00019
3	-0.02099	0.00004	0.00005	-0.02099	0.00005	0.00005
4	-0.02107	0.00007	0.00008	-0.02106	0.00008	0.00009
5	-0.02110	0.00004	0.00005	-0.02110	0.00005	0.00005
6	-0.02101	0.00011	0.00013	-0.02099	0.00013	0.00014
7	-0.02117	0.00006	0.00006	-0.02116	0.00006	0.00007
8	-0.02117	0.00008	0.00009	-0.02116	0.00009	0.00010
9	-0.02094	0.00019	0.00021	-0.02091	0.00021	0.00023
10	-0.02103	0.00010	0.00011	-0.02102	0.00011	0.00012
11	-0.02106	0.00001	0.00002	-0.02106	0.00002	0.00002
12	-0.02105	0.00007	0.00008	-0.02104	0.00008	0.00009
13	-0.02094	0.00005	0.00006	-0.02093	0.00006	0.00006
14	-0.02086	0.00007	0.00008	-0.02085	0.00008	0.00009
15	-0.02123	0.00004	0.00005	-0.02122	0.00005	0.00005
16	-0.02102	0.00004	0.00004	-0.02101	0.00004	0.00005
17	-0.02101	0.00007	0.00008	-0.02100	0.00008	0.00009
18	-0.02156	0.00022	0.00024	-0.02154	0.00025	0.00027
19	-0.02103	0.00009	0.00010	-0.02102	0.00010	0.00011
20	-0.02092	0.00007	0.00008	-0.02091	0.00008	0.00009
21	-0.02094	0.00008	0.00008	-0.02093	0.00008	0.00009
22	-0.02105	0.00006	0.00007	-0.02104	0.00007	0.00008
23	-0.02094	0.00011	0.00012	-0.02093	0.00013	0.00014
24	-0.02087	0.00013	0.00014	-0.02085	0.00014	0.00015
25	-0.02097	0.00005	0.00006	-0.02096	0.00006	0.00006
26	-0.02093	0.00007	0.00008	-0.02092	0.00008	0.00008
27	-0.01432	0.00005	0.00021	-0.01443	-0.00007	0.00009
28	-0.01424	0.00009	0.00042	-0.01447	-0.00014	0.00019
29	-0.01428	0.00011	0.00049	-0.01455	-0.00016	0.00022
30	-0.01427	0.00011	0.00052	-0.01455	-0.00017	0.00023
31	-0.01426	0.00010	0.00045	-0.01451	-0.00015	0.00020
32	-0.01436	0.00009	0.00039	-0.01457	-0.00013	0.00018
33	-0.01431	0.00005	0.00021	-0.01443	-0.00007	0.00010
34	-0.01432	0.00004	0.00017	-0.01441	-0.00006	0.00008
35	-0.01436	0.00006	0.00028	-0.01452	-0.00009	0.00013
36	-0.01417	0.00021	0.00094	-0.01469	-0.00031	0.00042
37	-0.01416	0.00021	0.00093	-0.01467	-0.00030	0.00042
38	-0.01430	0.00009	0.00043	-0.01453	-0.00014	0.00019
39	-0.01420	0.00016	0.00071	-0.01459	-0.00023	0.00032
40	-0.01424	0.00022	0.00097	-0.01477	-0.00032	0.00044
41	-0.01420	0.00018	0.00083	-0.01465	-0.00027	0.00037
42	-0.01428	0.00014	0.00062	-0.01462	-0.00020	0.00028
43	-0.01423	0.00016	0.00073	-0.01462	-0.00024	0.00033
44	-0.02193	0.00082	0.00079	-0.02142	0.00133	0.00130
45	-0.02195	0.00078	0.00074	-0.02146	0.00126	0.00123
46	-0.02156	0.00067	0.00064	-0.02114	0.00109	0.00106
47	-0.02206	0.00049	0.00047	-0.02175	0.00079	0.00077
48	-0.02241	0.00041	0.00040	-0.02215	0.00067	0.00066
49	-0.02204	0.00039	0.00038	-0.02179	0.00064	0.00062
50	-0.02159	0.00089	0.00086	-0.02103	0.00145	0.00141
51	-0.02199	0.00029	0.00028	-0.02181	0.00047	0.00046
52	-0.02282	0.00031	0.00030	-0.02263	0.00050	0.00049
53	-0.02208	0.00038	0.00036	-0.02184	0.00061	0.00060
54	-0.02262	0.00029	0.00028	-0.02243	0.00048	0.00047
55	-0.02225	0.00023	0.00022	-0.02211	0.00038	0.00037
56	-0.02205	0.00022	0.00022	-0.02191	0.00036	0.00036
57	-0.02208	0.00043	0.00041	-0.02181	0.00069	0.00068
58	-0.02151	0.00083	0.00080	-0.02099	0.00135	0.00132
59	-0.02200	0.00021	0.00020	-0.02187	0.00034	0.00033
60	-0.02243	0.00026	0.00025	-0.02227	0.00043	0.00042
61	-0.02222	0.00017	0.00017	-0.02211	0.00028	0.00028
62	-0.02209	0.00015	0.00015	-0.02200	0.00025	0.00024
63	-0.03024	0.00068	0.00014	-0.03025	0.00067	0.00013
64	-0.02830	0.00096	0.00019	-0.02832	0.00094	0.00018
65	-0.02910	0.00014	0.00003	-0.02910	0.00014	0.00003
66	-0.03408	0.00038	0.00008	-0.03409	0.00037	0.00007
67	-0.02835	0.00103	0.00021	-0.02837	0.00101	0.00019
68	-0.02800	0.00133	0.00027	-0.02802	0.00131	0.00025
69	-0.02742	0.00200	0.00041	-0.02746	0.00197	0.00037
70	-0.02915	0.00021	0.00004	-0.02915	0.00021	0.00004
71	-0.02877	0.00041	0.00008	-0.02878	0.00040	0.00008
72	-0.02851	0.00061	0.00012	-0.02852	0.00060	0.00011
73	-0.02880	0.00065	0.00013	-0.02882	0.00064	0.00012
74	-0.02830	0.00089	0.00018	-0.02831	0.00088	0.00017
75	-0.02874	0.00057	0.00012	-0.02875	0.00056	0.00011
76	-0.02913	0.00038	0.00008	-0.02913	0.00037	0.00007

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.32 The Elasticities with respect to Employment Rates from Model 3 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.22861	0.00163	0.00182	-0.22841	0.00184	0.00202
2	-0.22672	0.00163	0.00181	-0.22652	0.00183	0.00201
3	-0.23094	0.00046	0.00051	-0.23088	0.00051	0.00057
4	-0.22894	0.00081	0.00090	-0.22884	0.00091	0.00100
5	-0.22905	0.00047	0.00053	-0.22899	0.00053	0.00059
6	-0.22839	0.00123	0.00137	-0.22824	0.00139	0.00153
7	-0.22745	0.00062	0.00069	-0.22737	0.00070	0.00077
8	-0.22721	0.00085	0.00094	-0.22711	0.00095	0.00105
9	-0.22691	0.00205	0.00229	-0.22665	0.00231	0.00254
10	-0.22840	0.00109	0.00121	-0.22826	0.00122	0.00134
11	-0.23012	0.00016	0.00018	-0.23010	0.00018	0.00020
12	-0.22830	0.00075	0.00083	-0.22821	0.00084	0.00093
13	-0.23020	0.00057	0.00063	-0.23013	0.00064	0.00071
14	-0.23096	0.00081	0.00090	-0.23086	0.00091	0.00101
15	-0.22771	0.00047	0.00053	-0.22766	0.00053	0.00059
16	-0.22997	0.00042	0.00047	-0.22992	0.00047	0.00052
17	-0.22934	0.00081	0.00090	-0.22924	0.00091	0.00101
18	-0.22189	0.00226	0.00251	-0.22161	0.00254	0.00280
19	-0.22865	0.00098	0.00109	-0.22853	0.00110	0.00121
20	-0.23063	0.00083	0.00092	-0.23053	0.00093	0.00102
21	-0.23034	0.00083	0.00092	-0.23024	0.00093	0.00102
22	-0.22936	0.00069	0.00077	-0.22928	0.00078	0.00086
23	-0.22984	0.00122	0.00136	-0.22969	0.00137	0.00151
24	-0.23053	0.00138	0.00154	-0.23036	0.00156	0.00171
25	-0.23046	0.00057	0.00064	-0.23039	0.00065	0.00071
26	-0.23008	0.00075	0.00084	-0.22998	0.00085	0.00093
27	-0.15366	0.00050	0.00225	-0.15489	-0.00073	0.00101
28	-0.15414	0.00102	0.00460	-0.15666	-0.00150	0.00207
29	-0.15259	0.00117	0.00526	-0.15548	-0.00172	0.00238
30	-0.15346	0.00123	0.00554	-0.15650	-0.00181	0.00250
31	-0.15378	0.00109	0.00488	-0.15646	-0.00159	0.00220
32	-0.15114	0.00092	0.00412	-0.15340	-0.00134	0.00186
33	-0.15386	0.00051	0.00228	-0.15510	-0.00074	0.00103
34	-0.15337	0.00040	0.00181	-0.15436	-0.00059	0.00082
35	-0.15057	0.00066	0.00296	-0.15219	-0.00096	0.00134
36	-0.15339	0.00226	0.01016	-0.15897	-0.00331	0.00459
37	-0.15390	0.00225	0.01010	-0.15945	-0.00329	0.00456
38	-0.15379	0.00102	0.00457	-0.15629	-0.00149	0.00206
39	-0.15379	0.00170	0.00765	-0.15799	-0.00249	0.00345
40	-0.15086	0.00229	0.01028	-0.15650	-0.00335	0.00464
41	-0.15312	0.00198	0.00890	-0.15800	-0.00290	0.00402
42	-0.15287	0.00148	0.00664	-0.15651	-0.00216	0.00300
43	-0.15324	0.00174	0.00782	-0.15753	-0.00255	0.00353
44	-0.22463	0.00842	0.00808	-0.21939	0.01367	0.01333
45	-0.22450	0.00793	0.00761	-0.21956	0.01287	0.01256
46	-0.23100	0.00717	0.00689	-0.22653	0.01164	0.01136
47	-0.22814	0.00505	0.00485	-0.22499	0.00820	0.00800
48	-0.22554	0.00418	0.00401	-0.22293	0.00678	0.00661
49	-0.23058	0.00412	0.00395	-0.22802	0.00669	0.00652
50	-0.22629	0.00935	0.00898	-0.22046	0.01518	0.01481
51	-0.23307	0.00309	0.00297	-0.23114	0.00501	0.00489
52	-0.22445	0.00303	0.00291	-0.22256	0.00492	0.00480
53	-0.23120	0.00395	0.00380	-0.22873	0.00642	0.00626
54	-0.22623	0.00294	0.00282	-0.22439	0.00478	0.00466
55	-0.23175	0.00243	0.00234	-0.23023	0.00395	0.00386
56	-0.23377	0.00238	0.00229	-0.23228	0.00387	0.00377
57	-0.22992	0.00444	0.00427	-0.22715	0.00721	0.00704
58	-0.22735	0.00878	0.00843	-0.22188	0.01426	0.01390
59	-0.23572	0.00224	0.00215	-0.23433	0.00363	0.00354
60	-0.22813	0.00267	0.00257	-0.22646	0.00434	0.00423
61	-0.23186	0.00182	0.00175	-0.23072	0.00295	0.00288
62	-0.23451	0.00163	0.00157	-0.23349	0.00265	0.00259
63	-0.31154	0.00704	0.00143	-0.31167	0.00691	0.00130
64	-0.31140	0.01055	0.00214	-0.31159	0.01036	0.00195
65	-0.32075	0.00157	0.00032	-0.32077	0.00154	0.00029
66	-0.31677	0.00354	0.00072	-0.31683	0.00347	0.00065
67	-0.31130	0.01130	0.00229	-0.31150	0.01110	0.00209
68	-0.30877	0.01466	0.00297	-0.30903	0.01440	0.00271
69	-0.30216	0.02205	0.00447	-0.30255	0.02165	0.00408
70	-0.31758	0.00228	0.00046	-0.31762	0.00224	0.00042
71	-0.31711	0.00454	0.00092	-0.31719	0.00446	0.00084
72	-0.31732	0.00678	0.00137	-0.31744	0.00666	0.00125
73	-0.31315	0.00703	0.00143	-0.31328	0.00691	0.00130
74	-0.31077	0.00982	0.00199	-0.31095	0.00964	0.00181
75	-0.31269	0.00620	0.00126	-0.31280	0.00609	0.00115
76	-0.31333	0.00406	0.00082	-0.31340	0.00399	0.00075

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.33 The Elasticities with respect to Distances from Model 3 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.27302	0.00195	0.00217	-0.27277	0.00219	0.00241
2	-0.31196	0.00224	0.00249	-0.31168	0.00252	0.00277
3	-0.29969	0.00059	0.00066	-0.29961	0.00067	0.00074
4	-0.31291	0.00111	0.00123	-0.31277	0.00124	0.00137
5	-0.34981	0.00072	0.00081	-0.34972	0.00081	0.00090
6	-0.38749	0.00209	0.00233	-0.38723	0.00235	0.00259
7	-0.47637	0.00130	0.00144	-0.47621	0.00146	0.00160
8	-0.43771	0.00164	0.00182	-0.43751	0.00184	0.00202
9	-0.51394	0.00465	0.00518	-0.51337	0.00523	0.00576
10	-0.39124	0.00186	0.00207	-0.39101	0.00209	0.00230
11	-0.40992	0.00029	0.00032	-0.40989	0.00032	0.00036
12	-0.54975	0.00181	0.00201	-0.54953	0.00203	0.00223
13	-0.66357	0.00164	0.00183	-0.66336	0.00185	0.00203
14	-0.78335	0.00276	0.00307	-0.78301	0.00310	0.00341
15	-0.38433	0.00080	0.00089	-0.38423	0.00090	0.00099
16	-0.45577	0.00083	0.00092	-0.45567	0.00093	0.00103
17	-0.40495	0.00143	0.00160	-0.40478	0.00161	0.00177
18	-0.58215	0.00593	0.00660	-0.58142	0.00667	0.00733
19	-0.41940	0.00180	0.00200	-0.41918	0.00203	0.00223
20	-0.46459	0.00166	0.00185	-0.46438	0.00187	0.00206
21	-0.42041	0.00151	0.00168	-0.42022	0.00170	0.00187
22	-0.35769	0.00108	0.00120	-0.35756	0.00122	0.00134
23	-0.32421	0.00172	0.00192	-0.32400	0.00194	0.00213
24	-0.37305	0.00224	0.00249	-0.37278	0.00252	0.00277
25	-0.45079	0.00112	0.00125	-0.45065	0.00126	0.00139
26	-0.67496	0.00221	0.00246	-0.67469	0.00248	0.00273
27	-0.88478	0.00288	0.01293	-0.89187	-0.00422	0.00584
28	-0.84546	0.00562	0.02522	-0.85930	-0.00822	0.01138
29	-0.77264	0.00594	0.02666	-0.78726	-0.00869	0.01203
30	-0.63737	0.00513	0.02302	-0.65000	-0.00750	0.01039
31	-0.70995	0.00502	0.02253	-0.72231	-0.00734	0.01017
32	-0.84948	0.00515	0.02313	-0.86217	-0.00754	0.01044
33	-0.88236	0.00291	0.01305	-0.88952	-0.00425	0.00589
34	-1.03276	0.00271	0.01218	-1.03944	-0.00397	0.00550
35	-1.16475	0.00510	0.02290	-1.17731	-0.00746	0.01033
36	-0.38481	0.00568	0.02550	-0.39880	-0.00831	0.01151
37	-0.36273	0.00530	0.02381	-0.37580	-0.00776	0.01075
38	-0.51620	0.00342	0.01535	-0.52461	-0.00500	0.00693
39	-0.57070	0.00632	0.02839	-0.58628	-0.00925	0.01282
40	-0.56219	0.00853	0.03832	-0.58321	-0.01249	0.01730
41	-0.50805	0.00658	0.02953	-0.52425	-0.00962	0.01333
42	-0.48319	0.00467	0.02098	-0.49470	-0.00684	0.00947
43	-0.50882	0.00578	0.02596	-0.52306	-0.00846	0.01172
44	-0.65583	0.02458	0.02360	-0.64051	0.03991	0.03892
45	-0.86310	0.03049	0.02927	-0.84410	0.04949	0.04827
46	-0.94776	0.02943	0.02825	-0.92942	0.04777	0.04659
47	-1.13680	0.02518	0.02417	-1.12110	0.04087	0.03987
48	-1.24163	0.02299	0.02207	-1.22730	0.03732	0.03640
49	-1.10617	0.01976	0.01897	-1.09385	0.03208	0.03129
50	-0.74531	0.03081	0.02958	-0.72610	0.05001	0.04878
51	-1.22249	0.01620	0.01556	-1.21239	0.02630	0.02566
52	-1.07310	0.01448	0.01391	-1.06408	0.02351	0.02293
53	-0.94126	0.01610	0.01545	-0.93123	0.02613	0.02549
54	-1.16393	0.01514	0.01453	-1.15450	0.02457	0.02397
55	-1.08007	0.01135	0.01089	-1.07300	0.01842	0.01797
56	-1.26002	0.01285	0.01233	-1.25201	0.02085	0.02034
57	-0.98974	0.01913	0.01836	-0.97782	0.03105	0.03029
58	-1.02984	0.03978	0.03819	-1.00505	0.06457	0.06298
59	-1.07049	0.01016	0.00976	-1.06415	0.01649	0.01609
60	-1.29730	0.01520	0.01459	-1.28783	0.02467	0.02406
61	-1.46595	0.01150	0.01104	-1.45878	0.01867	0.01821
62	-1.36207	0.00949	0.00912	-1.35616	0.01541	0.01503
63	-2.03794	0.04603	0.00933	-2.03877	0.04520	0.00851
64	-2.01251	0.06818	0.01383	-2.01373	0.06696	0.01260
65	-2.07154	0.01014	0.00206	-2.07172	0.00995	0.00187
66	-2.31104	0.02580	0.00523	-2.31150	0.02534	0.00477
67	-1.63547	0.05936	0.01204	-1.63653	0.05830	0.01097
68	-1.48741	0.07062	0.01432	-1.48868	0.06935	0.01305
69	-1.20195	0.08771	0.01779	-1.20353	0.08614	0.01621
70	-2.51729	0.01805	0.00366	-2.51762	0.01773	0.00334
71	-2.49066	0.03569	0.00724	-2.49130	0.03505	0.00660
72	-2.16123	0.04617	0.00936	-2.16206	0.04534	0.00853
73	-2.19998	0.04941	0.01002	-2.20086	0.04852	0.00913
74	-2.61195	0.08251	0.01673	-2.61343	0.08103	0.01525
75	-2.76749	0.05486	0.01112	-2.76848	0.05388	0.01014
76	-2.88063	0.03731	0.00757	-2.88130	0.03664	0.00690

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.34 The Elasticities with respect to Food Expense Shares from Model 3 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.28989	0.00921	0.01025	-1.28875	0.01036	0.01139
2	-1.53283	0.01100	0.01224	-1.53146	0.01237	0.01360
3	-2.05626	0.00408	0.00454	-2.05575	0.00459	0.00504
4	-1.52345	0.00538	0.00599	-1.52279	0.00605	0.00666
5	-2.19854	0.00455	0.00506	-2.19798	0.00511	0.00563
6	-1.43804	0.00777	0.00865	-1.43708	0.00874	0.00961
7	-2.12711	0.00578	0.00644	-2.12639	0.00650	0.00715
8	-1.59582	0.00596	0.00663	-1.59508	0.00670	0.00737
9	-1.24985	0.01132	0.01259	-1.24844	0.01272	0.01400
10	-1.32302	0.00629	0.00700	-1.32224	0.00708	0.00779
11	-3.22583	0.00226	0.00252	-3.22555	0.00254	0.00280
12	-1.64027	0.00539	0.00600	-1.63960	0.00606	0.00666
13	-1.88366	0.00467	0.00519	-1.88308	0.00525	0.00577
14	-1.65530	0.00583	0.00648	-1.65458	0.00655	0.00721
15	-1.52907	0.00318	0.00354	-1.52867	0.00357	0.00393
16	-2.39396	0.00435	0.00485	-2.39342	0.00490	0.00539
17	-2.09162	0.00741	0.00825	-2.09069	0.00833	0.00917
18	-1.26286	0.01286	0.01431	-1.26126	0.01446	0.01591
19	-1.70056	0.00731	0.00813	-1.69965	0.00821	0.00904
20	-2.09315	0.00749	0.00833	-2.09222	0.00842	0.00926
21	-2.17807	0.00783	0.00871	-2.17710	0.00880	0.00969
22	-1.62886	0.00492	0.00548	-1.62825	0.00554	0.00609
23	-1.74500	0.00927	0.01032	-1.74385	0.01043	0.01147
24	-2.33836	0.01404	0.01562	-2.33662	0.01578	0.01736
25	-2.16201	0.00538	0.00599	-2.16134	0.00605	0.00666
26	-1.62851	0.00532	0.00592	-1.62785	0.00599	0.00659
27	-1.86103	0.00606	0.02720	-1.87595	-0.00887	0.01228
28	-1.27601	0.00848	0.03806	-1.29689	-0.01240	0.01718
29	-1.22854	0.00944	0.04238	-1.25179	-0.01382	0.01913
30	-1.14214	0.00919	0.04125	-1.16477	-0.01344	0.01862
31	-1.33020	0.00940	0.04222	-1.35337	-0.01376	0.01906
32	-1.50863	0.00915	0.04108	-1.53117	-0.01339	0.01854
33	-2.09056	0.00688	0.03092	-2.10752	-0.01008	0.01395
34	-1.99822	0.00525	0.02357	-2.01115	-0.00768	0.01064
35	-2.41519	0.01057	0.04748	-2.44124	-0.01547	0.02143
36	-0.88872	0.01312	0.05889	-0.92103	-0.01920	0.02658
37	-1.13538	0.01660	0.07454	-1.17627	-0.02430	0.03364
38	-1.16738	0.00773	0.03470	-1.18642	-0.01131	0.01566
39	-1.34193	0.01487	0.06676	-1.37856	-0.02176	0.03013
40	-0.84766	0.01287	0.05778	-0.87936	-0.01883	0.02608
41	-0.96371	0.01247	0.05601	-0.99444	-0.01826	0.02528
42	-1.16282	0.01125	0.05050	-1.19052	-0.01646	0.02279
43	-1.17970	0.01340	0.06018	-1.21271	-0.01962	0.02716

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.89364	0.07098	0.06815	-1.84940	0.11523	0.11239
45	-2.33376	0.08244	0.07914	-2.28238	0.13382	0.13053
46	-1.94268	0.06032	0.05791	-1.90509	0.09792	0.09551
47	-2.42210	0.05365	0.05151	-2.38866	0.08709	0.08494
48	-1.91202	0.03540	0.03399	-1.88995	0.05747	0.05605
49	-2.94271	0.05257	0.05047	-2.90995	0.08533	0.08323
50	-2.11094	0.08726	0.08377	-2.05656	0.14164	0.13815
51	-2.70435	0.03585	0.03441	-2.68200	0.05819	0.05676
52	-2.76015	0.03726	0.03577	-2.73693	0.06048	0.05899
53	-2.29457	0.03924	0.03767	-2.27011	0.06370	0.06213
54	-2.03443	0.02646	0.02540	-2.01794	0.04295	0.04189
55	-2.69419	0.02831	0.02718	-2.67655	0.04595	0.04482
56	-2.72156	0.02775	0.02664	-2.70426	0.04504	0.04393
57	-2.11802	0.04093	0.03930	-2.09250	0.06645	0.06481
58	-1.77486	0.06856	0.06582	-1.73213	0.11128	0.10854
59	-3.12078	0.02962	0.02844	-3.10231	0.04809	0.04690
60	-2.74206	0.03212	0.03083	-2.72205	0.05214	0.05085
61	-3.30823	0.02596	0.02492	-3.29205	0.04214	0.04110
62	-2.93146	0.02043	0.01962	-2.91872	0.03317	0.03235
63	-2.47903	0.05599	0.01135	-2.48004	0.05498	0.01035
64	-2.02595	0.06864	0.01392	-2.02718	0.06740	0.01269
65	-3.66979	0.01796	0.00364	-3.67011	0.01763	0.00332
66	-2.53844	0.02834	0.00575	-2.53894	0.02783	0.00524
67	-1.81797	0.06599	0.01338	-1.81916	0.06480	0.01220
68	-1.87731	0.08913	0.01807	-1.87891	0.08753	0.01647
69	-1.99773	0.14578	0.02956	-2.00035	0.14317	0.02694
70	-2.79292	0.02003	0.00406	-2.79328	0.01967	0.00370
71	-2.68560	0.03849	0.00780	-2.68629	0.03780	0.00711
72	-1.98866	0.04249	0.00862	-1.98942	0.04172	0.00785
73	-2.18533	0.04908	0.00995	-2.18621	0.04820	0.00907
74	-2.80993	0.08876	0.01800	-2.81153	0.08717	0.01641
75	-2.55247	0.05060	0.01026	-2.55338	0.04969	0.00935
76	-3.18405	0.04124	0.00836	-3.18480	0.04050	0.00762

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.35 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 2 in 2007

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	1.43647	-0.01026	-0.01141	1.43520	-0.01153	-0.01269
2	1.64402	-0.01180	-0.01313	1.64255	-0.01326	-0.01459
3	1.20913	-0.00240	-0.00267	1.20883	-0.00270	-0.00297
4	1.17492	-0.00415	-0.00462	1.17441	-0.00467	-0.00513
5	1.30495	-0.00270	-0.00300	1.30462	-0.00304	-0.00334
6	1.59060	-0.00860	-0.00956	1.58954	-0.00966	-0.01063
7	1.58963	-0.00432	-0.00481	1.58909	-0.00486	-0.00535
8	1.35924	-0.00508	-0.00565	1.35861	-0.00571	-0.00628
9	1.91139	-0.01731	-0.01925	1.90924	-0.01946	-0.02140
10	1.21461	-0.00578	-0.00643	1.21389	-0.00650	-0.00715
11	1.26686	-0.00089	-0.00099	1.26675	-0.00100	-0.00110
12	1.08155	-0.00355	-0.00395	1.08111	-0.00399	-0.00439
13	1.40188	-0.00347	-0.00386	1.40145	-0.00390	-0.00429
14	1.58483	-0.00558	-0.00621	1.58414	-0.00627	-0.00690
15	1.29804	-0.00270	-0.00300	1.29771	-0.00303	-0.00334
16	1.45647	-0.00265	-0.00295	1.45614	-0.00298	-0.00328
17	1.67267	-0.00593	-0.00659	1.67194	-0.00666	-0.00733
18	1.92805	-0.01964	-0.02185	1.92561	-0.02208	-0.02429
19	1.54034	-0.00662	-0.00736	1.53952	-0.00744	-0.00818
20	1.70378	-0.00609	-0.00678	1.70303	-0.00685	-0.00754
21	1.79123	-0.00644	-0.00717	1.79043	-0.00724	-0.00797
22	1.13871	-0.00344	-0.00383	1.13828	-0.00387	-0.00426
23	1.61248	-0.00857	-0.00953	1.61141	-0.00963	-0.01060
24	2.34150	-0.01406	-0.01564	2.33975	-0.01580	-0.01738
25	1.47830	-0.00368	-0.00410	1.47785	-0.00414	-0.00455
26	1.47287	-0.00482	-0.00536	1.47227	-0.00541	-0.00596
27	1.09221	-0.00356	-0.01596	1.10097	0.00520	-0.00721
28	1.11315	-0.00739	-0.03320	1.13136	0.01082	-0.01499
29	1.14729	-0.00881	-0.03958	1.16900	0.01290	-0.01787
30	1.03370	-0.00831	-0.03733	1.05418	0.01217	-0.01685
31	1.10988	-0.00784	-0.03523	1.12921	0.01148	-0.01590
32	1.35330	-0.00821	-0.03685	1.37352	0.01201	-0.01663
33	1.38159	-0.00455	-0.02043	1.39280	0.00666	-0.00922
34	1.15370	-0.00303	-0.01361	1.16117	0.00444	-0.00614
35	2.11517	-0.00926	-0.04158	2.13798	0.01355	-0.01877
36	1.03670	-0.01530	-0.06870	1.07439	0.02239	-0.03101
37	1.27499	-0.01864	-0.08371	1.32092	0.02728	-0.03778
38	1.00706	-0.00667	-0.02994	1.02348	0.00976	-0.01351
39	1.41866	-0.01572	-0.07058	1.45739	0.02301	-0.03186
40	1.22470	-0.01859	-0.08348	1.27050	0.02721	-0.03768
41	1.16242	-0.01505	-0.06756	1.19949	0.02202	-0.03050
42	1.01487	-0.00982	-0.04407	1.03905	0.01437	-0.01989
43	1.20521	-0.01369	-0.06148	1.23894	0.02004	-0.02775
44	1.48856	-0.05580	-0.05357	1.45378	-0.09058	-0.08835
45	2.08021	-0.07348	-0.07055	2.03441	-0.11928	-0.11635
46	1.76278	-0.05473	-0.05255	1.72866	-0.08885	-0.08666
47	2.01690	-0.04467	-0.04289	1.98905	-0.07252	-0.07073
48	1.47254	-0.02727	-0.02618	1.45554	-0.04426	-0.04317
49	2.22556	-0.03976	-0.03817	2.20078	-0.06454	-0.06295
50	1.84121	-0.07611	-0.07307	1.79378	-0.12354	-0.12050
51	1.81184	-0.02402	-0.02306	1.79687	-0.03899	-0.03803
52	1.82017	-0.02457	-0.02359	1.80486	-0.03988	-0.03890
53	1.44939	-0.02479	-0.02379	1.43394	-0.04023	-0.03924
54	1.25419	-0.01631	-0.01566	1.24403	-0.02648	-0.02582
55	1.53021	-0.01608	-0.01543	1.52018	-0.02610	-0.02546
56	1.71036	-0.01744	-0.01674	1.69949	-0.02830	-0.02761
57	1.38641	-0.02679	-0.02572	1.36971	-0.04349	-0.04242
58	1.81297	-0.07003	-0.06723	1.76932	-0.11367	-0.11088
59	1.74514	-0.01657	-0.01590	1.73481	-0.02689	-0.02623
60	1.80369	-0.02113	-0.02028	1.79053	-0.03429	-0.03345
61	2.17204	-0.01704	-0.01636	2.16142	-0.02767	-0.02698
62	1.59176	-0.01110	-0.01065	1.58484	-0.01801	-0.01757
63	1.86883	-0.04221	-0.00856	1.86958	-0.04145	-0.00780
64	1.73464	-0.05877	-0.01192	1.73570	-0.05771	-0.01086
65	1.50005	-0.00734	-0.00149	1.50018	-0.00721	-0.00136
66	1.56150	-0.01744	-0.00354	1.56181	-0.01712	-0.00322
67	1.23975	-0.04500	-0.00912	1.24055	-0.04419	-0.00832
68	1.47613	-0.07008	-0.01421	1.47739	-0.06882	-0.01295
69	1.65406	-0.12070	-0.02448	1.65623	-0.11854	-0.02231
70	1.55047	-0.01112	-0.00225	1.55067	-0.01092	-0.00205
71	1.94197	-0.02783	-0.00564	1.94247	-0.02733	-0.00514
72	1.41760	-0.03029	-0.00614	1.41814	-0.02974	-0.00560
73	1.80773	-0.04060	-0.00823	1.80846	-0.03987	-0.00750
74	3.00017	-0.09477	-0.01922	3.00187	-0.09307	-0.01752
75	2.43442	-0.04826	-0.00979	2.43529	-0.04739	-0.00892
76	2.60184	-0.03370	-0.00683	2.60244	-0.03309	-0.00623

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.36 The Elasticities with respect to Wages from Model 2 of Group 2 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	13.72389	-0.56076	-0.03176	13.73103	-0.55363	-0.02462
2	13.78507	-0.48313	-0.02736	13.79122	-0.47699	-0.02122
3	13.75856	-0.49604	-0.02809	13.76487	-0.48973	-0.02178
4	13.78348	-0.47627	-0.02697	13.78954	-0.47021	-0.02091
5	13.82889	-0.40878	-0.02315	13.83409	-0.40359	-0.01795
6	13.89002	-0.36982	-0.02094	13.89472	-0.36511	-0.01624
7	13.96645	-0.26566	-0.01504	13.96983	-0.26228	-0.01167
8	13.92637	-0.30740	-0.01741	13.93028	-0.30349	-0.01350
9	13.98090	-0.23348	-0.01322	13.98387	-0.23051	-0.01025
10	13.87774	-0.34940	-0.01979	13.88218	-0.34496	-0.01534
11	13.90558	-0.32899	-0.01863	13.90976	-0.32481	-0.01445
12	14.02038	-0.18813	-0.01065	14.02277	-0.18574	-0.00826
13	14.07023	-0.12181	-0.00690	14.07178	-0.12026	-0.00535
14	14.10479	-0.07860	-0.00445	14.10579	-0.07760	-0.00345
15	13.88899	-0.36456	-0.02064	13.89363	-0.35992	-0.01601
16	13.97286	-0.28174	-0.01595	13.97644	-0.27816	-0.01237
17	13.89094	-0.33650	-0.01906	13.89522	-0.33223	-0.01478
18	14.07661	-0.17553	-0.00994	14.07885	-0.17330	-0.00771
19	13.90574	-0.33642	-0.01905	13.91002	-0.33214	-0.01477
20	13.95083	-0.28027	-0.01587	13.95439	-0.27671	-0.01231
21	13.89653	-0.31531	-0.01786	13.90054	-0.31130	-0.01385
22	13.83184	-0.40891	-0.02316	13.83704	-0.40371	-0.01796
23	13.78369	-0.45404	-0.02571	13.78947	-0.44826	-0.01994
24	13.83988	-0.38213	-0.02164	13.84474	-0.37727	-0.01678
25	13.92512	-0.29928	-0.01695	13.92892	-0.29547	-0.01314
26	14.07112	-0.13810	-0.00782	14.07288	-0.13635	-0.00606
27	7.94006	-0.12019	-0.06990	7.94770	-0.11255	-0.06226
28	7.93185	-0.13414	-0.07802	7.94037	-0.12561	-0.06949
29	7.90961	-0.16604	-0.09657	7.92016	-0.15549	-0.08602
30	7.87554	-0.24673	-0.14350	7.89122	-0.23105	-0.12782
31	7.89673	-0.19735	-0.11478	7.90927	-0.18481	-0.10224
32	7.96124	-0.12953	-0.07533	7.96947	-0.12130	-0.06710
33	7.95286	-0.11900	-0.06921	7.96042	-0.11143	-0.06165
34	7.98286	-0.07620	-0.04432	7.98770	-0.07135	-0.03947
35	7.99301	-0.05046	-0.02935	7.99622	-0.04726	-0.02614
36	7.65469	-0.49472	-0.28773	7.68613	-0.46328	-0.25629
37	7.62318	-0.52353	-0.30448	7.65645	-0.49025	-0.27121
38	7.79265	-0.34699	-0.20181	7.81470	-0.32494	-0.17976
39	7.82994	-0.29496	-0.17155	7.84869	-0.27622	-0.15280
40	7.84083	-0.30224	-0.17578	7.86004	-0.28303	-0.15657
41	7.79886	-0.35046	-0.20383	7.82113	-0.32819	-0.18155
42	7.77727	-0.37525	-0.21825	7.80112	-0.35140	-0.19440
43	7.80353	-0.33723	-0.19613	7.82497	-0.31580	-0.17470

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	11.03008	-1.03036	-0.34908	10.98340	-1.07704	-0.39576
45	11.52333	-0.60072	-0.20352	11.49612	-0.62793	-0.23073
46	11.78266	-0.64853	-0.21972	11.75328	-0.67791	-0.24910
47	12.06076	-0.37761	-0.12793	12.04366	-0.39471	-0.14504
48	12.14902	-0.28187	-0.09550	12.13625	-0.29464	-0.10827
49	12.01148	-0.43048	-0.14584	11.99198	-0.44998	-0.16534
50	11.25409	-1.03281	-0.34991	11.20730	-1.07960	-0.39670
51	12.13130	-0.30840	-0.10448	12.11733	-0.32237	-0.11845
52	11.94090	-0.48292	-0.16361	11.91902	-0.50480	-0.18549
53	11.70571	-0.64650	-0.21903	11.67643	-0.67578	-0.24831
54	12.02352	-0.33797	-0.11450	12.00821	-0.35328	-0.12981
55	11.94387	-0.49120	-0.16641	11.92161	-0.51345	-0.18867
56	12.14721	-0.26885	-0.09108	12.13503	-0.28103	-0.10326
57	11.80012	-0.56374	-0.19099	11.77459	-0.58928	-0.21653
58	11.91183	-0.49168	-0.16658	11.88955	-0.51395	-0.18885
59	11.94801	-0.49106	-0.16637	11.92577	-0.51331	-0.18861
60	12.18326	-0.24742	-0.08382	12.17205	-0.25863	-0.09503
61	12.27730	-0.15173	-0.05140	12.27042	-0.15860	-0.05828
62	12.16230	-0.20831	-0.07057	12.15286	-0.21775	-0.08001
63	4.08990	0.15349	-0.02146	4.09238	0.15597	-0.01898
64	4.09171	0.15453	-0.02160	4.09421	0.15703	-0.01911
65	4.09174	0.15420	-0.02156	4.09424	0.15669	-0.01907
66	4.06194	0.12954	-0.01811	4.06403	0.13163	-0.01602
67	4.14217	0.19804	-0.02769	4.14537	0.20123	-0.02449
68	4.16385	0.21547	-0.03012	4.16733	0.21895	-0.02664
69	4.20803	0.25508	-0.03566	4.21215	0.25920	-0.03154
70	4.03824	0.11356	-0.01588	4.04008	0.11539	-0.01404
71	4.04996	0.11483	-0.01605	4.05181	0.11669	-0.01420
72	4.08021	0.14258	-0.01993	4.08251	0.14488	-0.01763
73	4.07301	0.13831	-0.01934	4.07524	0.14055	-0.01710
74	4.03146	0.10242	-0.01432	4.03311	0.10407	-0.01266
75	4.02636	0.09405	-0.01315	4.02788	0.09557	-0.01163
76	4.01485	0.08745	-0.01223	4.01626	0.08887	-0.01081

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.37 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.16587	0.00678	0.00038	-0.16596	0.00669	0.00030
2	-0.16689	0.00585	0.00033	-0.16697	0.00577	0.00026
3	-0.16723	0.00603	0.00034	-0.16730	0.00595	0.00026
4	-0.16694	0.00577	0.00033	-0.16701	0.00569	0.00025
5	-0.16803	0.00497	0.00028	-0.16809	0.00490	0.00022
6	-0.16679	0.00444	0.00025	-0.16685	0.00438	0.00020
7	-0.16823	0.00320	0.00018	-0.16827	0.00316	0.00014
8	-0.16816	0.00371	0.00021	-0.16820	0.00366	0.00016
9	-0.16971	0.00283	0.00016	-0.16974	0.00280	0.00012
10	-0.16865	0.00425	0.00024	-0.16871	0.00419	0.00019
11	-0.16909	0.00400	0.00023	-0.16914	0.00395	0.00018
12	-0.17073	0.00229	0.00013	-0.17076	0.00226	0.00010
13	-0.17210	0.00149	0.00008	-0.17212	0.00147	0.00007
14	-0.17365	0.00097	0.00005	-0.17366	0.00096	0.00004
15	-0.16776	0.00440	0.00025	-0.16781	0.00435	0.00019
16	-0.16738	0.00337	0.00019	-0.16742	0.00333	0.00015
17	-0.16875	0.00409	0.00023	-0.16881	0.00404	0.00018
18	-0.16669	0.00208	0.00012	-0.16672	0.00205	0.00009
19	-0.16827	0.00407	0.00023	-0.16833	0.00402	0.00018
20	-0.16885	0.00339	0.00019	-0.16889	0.00335	0.00015
21	-0.16992	0.00386	0.00022	-0.16997	0.00381	0.00017
22	-0.16830	0.00498	0.00028	-0.16837	0.00491	0.00022
23	-0.16839	0.00555	0.00031	-0.16846	0.00548	0.00024
24	-0.16957	0.00468	0.00027	-0.16963	0.00462	0.00021
25	-0.16954	0.00364	0.00021	-0.16958	0.00360	0.00016
26	-0.17274	0.00170	0.00010	-0.17276	0.00167	0.00007
27	-0.09617	0.00146	0.00085	-0.09626	0.00136	0.00075
28	-0.09632	0.00163	0.00095	-0.09643	0.00153	0.00084
29	-0.09470	0.00199	0.00116	-0.09483	0.00186	0.00103
30	-0.09411	0.00295	0.00171	-0.09429	0.00276	0.00153
31	-0.09570	0.00239	0.00139	-0.09585	0.00224	0.00124
32	-0.09473	0.00154	0.00090	-0.09483	0.00144	0.00080
33	-0.09617	0.00144	0.00084	-0.09626	0.00135	0.00075
34	-0.09616	0.00092	0.00053	-0.09622	0.00086	0.00048
35	-0.09695	0.00061	0.00036	-0.09699	0.00057	0.00032
36	-0.09194	0.00594	0.00346	-0.09232	0.00556	0.00308
37	-0.09209	0.00632	0.00368	-0.09249	0.00592	0.00328
38	-0.09373	0.00417	0.00243	-0.09399	0.00391	0.00216
39	-0.09456	0.00356	0.00207	-0.09478	0.00334	0.00185
40	-0.09323	0.00359	0.00209	-0.09346	0.00337	0.00186
41	-0.09294	0.00418	0.00243	-0.09321	0.00391	0.00216
42	-0.09259	0.00447	0.00260	-0.09288	0.00418	0.00231
43	-0.09359	0.00404	0.00235	-0.09385	0.00379	0.00210
44	-0.13494	0.01261	0.00427	-0.13437	0.01318	0.00484
45	-0.13772	0.00718	0.00243	-0.13739	0.00750	0.00276
46	-0.14107	0.00776	0.00263	-0.14072	0.00812	0.00298
47	-0.14333	0.00449	0.00152	-0.14313	0.00469	0.00172
48	-0.14467	0.00336	0.00114	-0.14452	0.00351	0.00129
49	-0.14344	0.00514	0.00174	-0.14320	0.00537	0.00197
50	-0.13549	0.01243	0.00421	-0.13492	0.01300	0.00478
51	-0.14372	0.00365	0.00124	-0.14356	0.00382	0.00140
52	-0.14118	0.00571	0.00193	-0.14092	0.00597	0.00219
53	-0.13864	0.00766	0.00259	-0.13829	0.00800	0.00294
54	-0.13981	0.00393	0.00133	-0.13964	0.00411	0.00151
55	-0.14225	0.00585	0.00198	-0.14198	0.00611	0.00225
56	-0.14568	0.00322	0.00109	-0.14553	0.00337	0.00124
57	-0.13921	0.00665	0.00225	-0.13891	0.00695	0.00255
58	-0.14024	0.00579	0.00196	-0.13998	0.00605	0.00222
59	-0.14389	0.00591	0.00200	-0.14362	0.00618	0.00227
60	-0.14197	0.00288	0.00098	-0.14184	0.00301	0.00111
61	-0.14304	0.00177	0.00060	-0.14296	0.00185	0.00068
62	-0.14540	0.00249	0.00084	-0.14528	0.00260	0.00096
63	-0.04913	-0.00184	0.00026	-0.04916	-0.00187	0.00023
64	-0.04949	-0.00187	0.00026	-0.04952	-0.00190	0.00023
65	-0.04980	-0.00188	0.00026	-0.04983	-0.00191	0.00023
66	-0.04915	-0.00157	0.00022	-0.04918	-0.00159	0.00019
67	-0.05060	-0.00242	0.00034	-0.05064	-0.00246	0.00030
68	-0.05032	-0.00260	0.00036	-0.05036	-0.00265	0.00032
69	-0.05097	-0.00309	0.00043	-0.05102	-0.00314	0.00038
70	-0.04857	-0.00137	0.00019	-0.04859	-0.00139	0.00017
71	-0.04930	-0.00140	0.00020	-0.04932	-0.00142	0.00017
72	-0.04985	-0.00174	0.00024	-0.04988	-0.00177	0.00022
73	-0.04939	-0.00168	0.00023	-0.04942	-0.00170	0.00021
74	-0.04864	-0.00124	0.00017	-0.04866	-0.00126	0.00015
75	-0.04906	-0.00115	0.00016	-0.04908	-0.00116	0.00014
76	-0.04758	-0.00104	0.00014	-0.04760	-0.00105	0.00013

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.38 The Elasticities with respect to Distances from Model 2 of Group 2 in 2008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.38938	0.05677	0.00321	-1.39010	0.05605	0.00249
2	-1.52403	0.05341	0.00302	-1.52471	0.05273	0.00235
3	-1.48257	0.05345	0.00303	-1.48325	0.05277	0.00235
4	-1.52989	0.05286	0.00299	-1.53056	0.05219	0.00232
5	-1.66248	0.04914	0.00278	-1.66311	0.04852	0.00216
6	-1.78964	0.04765	0.00270	-1.79024	0.04704	0.00209
7	-2.09831	0.03991	0.00226	-2.09881	0.03940	0.00175
8	-1.95057	0.04305	0.00244	-1.95112	0.04251	0.00189
9	-2.21033	0.03691	0.00209	-2.21080	0.03644	0.00162
10	-1.81180	0.04562	0.00258	-1.81238	0.04504	0.00200
11	-1.88087	0.04450	0.00252	-1.88143	0.04393	0.00195
12	-2.42391	0.03253	0.00184	-2.42432	0.03211	0.00143
13	-2.84829	0.02466	0.00140	-2.84860	0.02434	0.00108
14	-3.28248	0.01829	0.00104	-3.28271	0.01806	0.00080
15	-1.79680	0.04716	0.00267	-1.79740	0.04656	0.00207
16	-2.06260	0.04159	0.00236	-2.06313	0.04106	0.00183
17	-1.85058	0.04483	0.00254	-1.85115	0.04426	0.00197
18	-2.54497	0.03174	0.00180	-2.54537	0.03133	0.00139
19	-1.86675	0.04516	0.00256	-1.86732	0.04459	0.00198
20	-2.04175	0.04102	0.00232	-2.04228	0.04050	0.00180
21	-1.89974	0.04310	0.00244	-1.90029	0.04256	0.00189
22	-1.66511	0.04923	0.00279	-1.66573	0.04860	0.00216
23	-1.55455	0.05121	0.00290	-1.55520	0.05056	0.00225
24	-1.71372	0.04732	0.00268	-1.71433	0.04672	0.00208
25	-1.96677	0.04227	0.00239	-1.96731	0.04173	0.00186
26	-2.73806	0.02687	0.00152	-2.73840	0.02653	0.00118
27	-2.65343	0.04017	0.02336	-2.65598	0.03761	0.02081
28	-2.54683	0.04307	0.02505	-2.54957	0.04033	0.02231
29	-2.33956	0.04911	0.02856	-2.34268	0.04599	0.02544
30	-1.98253	0.06211	0.03612	-1.98648	0.05816	0.03218
31	-2.18074	0.05450	0.03170	-2.18421	0.05104	0.02823
32	-2.61191	0.04250	0.02472	-2.61461	0.03979	0.02201
33	-2.67657	0.04005	0.02329	-2.67911	0.03750	0.02075
34	-3.11879	0.02977	0.01731	-3.12068	0.02788	0.01542
35	-3.52040	0.02223	0.01293	-3.52181	0.02081	0.01151
36	-1.29489	0.08369	0.04867	-1.30021	0.07837	0.04335
37	-1.23369	0.08472	0.04928	-1.23907	0.07934	0.04389
38	-1.64886	0.07342	0.04270	-1.65352	0.06875	0.03804
39	-1.80015	0.06781	0.03944	-1.80446	0.06350	0.03513
40	-1.79605	0.06923	0.04027	-1.80045	0.06483	0.03587
41	-1.64984	0.07414	0.04312	-1.65455	0.06943	0.03841
42	-1.58291	0.07637	0.04442	-1.58777	0.07152	0.03957
43	-1.67974	0.07259	0.04222	-1.68436	0.06798	0.03761

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-2.23894	0.20915	0.07086	-2.22946	0.21862	0.08033
45	-2.90758	0.15157	0.05135	-2.90071	0.15844	0.05822
46	-3.13806	0.17272	0.05852	-3.13023	0.18055	0.06634
47	-3.74322	0.11719	0.03970	-3.73791	0.12250	0.04501
48	-4.05055	0.09398	0.03184	-4.04629	0.09824	0.03610
49	-3.60335	0.12914	0.04375	-3.59750	0.13499	0.04960
50	-2.46425	0.22615	0.07662	-2.45400	0.23639	0.08686
51	-3.96398	0.10077	0.03414	-3.95942	0.10534	0.03871
52	-3.45970	0.13992	0.04740	-3.45336	0.14626	0.05374
53	-3.06199	0.16911	0.05729	-3.05433	0.17677	0.06495
54	-3.78588	0.10642	0.03605	-3.78106	0.11124	0.04087
55	-3.45162	0.14195	0.04809	-3.44519	0.14838	0.05452
56	-4.08451	0.09040	0.03063	-4.08042	0.09450	0.03472
57	-3.22695	0.15417	0.05223	-3.21997	0.16115	0.05921
58	-3.41942	0.14114	0.04782	-3.41302	0.14753	0.05421
59	-3.45449	0.14198	0.04810	-3.44806	0.14841	0.05453
60	-4.19268	0.08515	0.02885	-4.18882	0.08900	0.03270
61	-4.70693	0.05817	0.01971	-4.70429	0.06080	0.02234
62	-4.30815	0.07379	0.02500	-4.30481	0.07713	0.02834
63	-1.53646	-0.05766	0.00806	-1.53740	-0.05859	0.00713
64	-1.53048	-0.05780	0.00808	-1.53141	-0.05874	0.00715
65	-1.53274	-0.05776	0.00808	-1.53368	-0.05870	0.00714
66	-1.69728	-0.05413	0.00757	-1.69815	-0.05500	0.00669
67	-1.29468	-0.06190	0.00865	-1.29568	-0.06290	0.00765
68	-1.21721	-0.06299	0.00881	-1.21823	-0.06400	0.00779
69	-1.05493	-0.06395	0.00894	-1.05596	-0.06498	0.00791
70	-1.81655	-0.05108	0.00714	-1.81738	-0.05191	0.00632
71	-1.81829	-0.05156	0.00721	-1.81912	-0.05239	0.00638
72	-1.60952	-0.05624	0.00786	-1.61043	-0.05715	0.00695
73	-1.63590	-0.05555	0.00777	-1.63680	-0.05645	0.00687
74	-1.92288	-0.04885	0.00683	-1.92366	-0.04964	0.00604
75	-2.00983	-0.04695	0.00656	-2.01058	-0.04770	0.00581
76	-2.07600	-0.04522	0.00632	-2.07673	-0.04595	0.00559

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.39 The Elasticities with respect to Wages from Model 2 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-4.16069	0.06122	0.01239	-4.15795	0.06396	0.01513
2	-4.16431	0.05759	0.01166	-4.16173	0.06017	0.01423
3	-4.16312	0.05879	0.01190	-4.16049	0.06142	0.01453
4	-4.16440	0.05763	0.01166	-4.16182	0.06020	0.01424
5	-4.16757	0.05417	0.01097	-4.16515	0.05660	0.01339
6	-4.17294	0.05080	0.01028	-4.17067	0.05307	0.01255
7	-4.17785	0.04402	0.00891	-4.17588	0.04598	0.01088
8	-4.17541	0.04680	0.00947	-4.17332	0.04890	0.01157
9	-4.18229	0.04055	0.00821	-4.18048	0.04236	0.01002
10	-4.17036	0.05139	0.01040	-4.16806	0.05369	0.01270
11	-4.17237	0.05078	0.01028	-4.17010	0.05305	0.01255
12	-4.18216	0.04108	0.00832	-4.18032	0.04292	0.01015
13	-4.19056	0.03460	0.00700	-4.18901	0.03614	0.00855
14	-4.19748	0.02883	0.00584	-4.19619	0.03012	0.00712
15	-4.16872	0.05311	0.01075	-4.16635	0.05548	0.01313
16	-4.17423	0.04823	0.00976	-4.17207	0.05038	0.01192
17	-4.17226	0.05065	0.01025	-4.17000	0.05292	0.01252
18	-4.18241	0.03963	0.00802	-4.18064	0.04140	0.00979
19	-4.17268	0.04969	0.01006	-4.17046	0.05191	0.01228
20	-4.17765	0.04604	0.00932	-4.17559	0.04810	0.01138
21	-4.17697	0.04714	0.00954	-4.17486	0.04925	0.01165
22	-4.16839	0.05414	0.01096	-4.16597	0.05656	0.01338
23	-4.16619	0.05666	0.01147	-4.16366	0.05919	0.01400
24	-4.17035	0.05290	0.01071	-4.16799	0.05527	0.01307
25	-4.17557	0.04760	0.00964	-4.17344	0.04973	0.01176
26	-4.19131	0.03419	0.00692	-4.18978	0.03572	0.00845
27	-1.20781	-0.07790	0.03032	-1.18292	-0.05301	0.05522
28	-1.20909	-0.07951	0.03095	-1.18368	-0.05410	0.05635
29	-1.21335	-0.08309	0.03234	-1.18680	-0.05654	0.05889
30	-1.22096	-0.09030	0.03515	-1.19211	-0.06144	0.06400
31	-1.21681	-0.08636	0.03362	-1.18921	-0.05877	0.06121
32	-1.20934	-0.07932	0.03088	-1.18399	-0.05398	0.05622
33	-1.20809	-0.07785	0.03030	-1.18322	-0.05297	0.05518
34	-1.20139	-0.07108	0.02767	-1.17868	-0.04837	0.05038
35	-1.19515	-0.06572	0.02558	-1.17415	-0.04472	0.04658
36	-1.23764	-0.10621	0.04134	-1.20370	-0.07227	0.07528
37	-1.24006	-0.10782	0.04197	-1.20561	-0.07337	0.07642
38	-1.22845	-0.09756	0.03797	-1.19728	-0.06639	0.06915
39	-1.22726	-0.09433	0.03672	-1.19711	-0.06419	0.06686
40	-1.22549	-0.09438	0.03674	-1.19533	-0.06423	0.06690
41	-1.22829	-0.09760	0.03799	-1.19710	-0.06642	0.06918
42	-1.22994	-0.09934	0.03867	-1.19820	-0.06760	0.07041
43	-1.22891	-0.09840	0.03830	-1.19747	-0.06696	0.06974

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.77860	0.00614	0.10981	-1.78500	-0.00026	0.10341
45	-1.83508	0.00529	0.09462	-1.84059	-0.00022	0.08910
46	-1.73186	0.00523	0.09341	-1.73730	-0.00022	0.08797
47	-1.74018	0.00468	0.08361	-1.74505	-0.00020	0.07874
48	-1.73335	0.00438	0.07830	-1.73792	-0.00018	0.07374
49	-1.76129	0.00471	0.08411	-1.76619	-0.00020	0.07921
50	-1.74738	0.00580	0.10361	-1.75342	-0.00024	0.09757
51	-1.75327	0.00442	0.07893	-1.75787	-0.00018	0.07433
52	-1.72806	0.00480	0.08572	-1.73305	-0.00020	0.08072
53	-1.74020	0.00519	0.09281	-1.74561	-0.00022	0.08741
54	-1.75912	0.00452	0.08089	-1.76383	-0.00019	0.07617
55	-1.72507	0.00476	0.08515	-1.73004	-0.00020	0.08018
56	-1.72896	0.00431	0.07701	-1.73345	-0.00018	0.07252
57	-1.73981	0.00506	0.09040	-1.74508	-0.00021	0.08514
58	-1.77257	0.00484	0.08647	-1.77761	-0.00020	0.08143
59	-1.74213	0.00483	0.08626	-1.74715	-0.00020	0.08123
60	-1.75548	0.00420	0.07501	-1.75985	-0.00018	0.07064
61	-1.73611	0.00383	0.06851	-1.74010	-0.00016	0.06451
62	-1.72884	0.00413	0.07389	-1.73315	-0.00017	0.06959
63	-4.64813	0.17419	0.05777	-4.68076	0.14157	0.02515
64	-4.64293	0.17366	0.05760	-4.67545	0.14113	0.02507
65	-4.65203	0.17112	0.05676	-4.68408	0.13907	0.02470
66	-4.69428	0.12573	0.04170	-4.71783	0.10218	0.01815
67	-4.54986	0.26969	0.08945	-4.60038	0.21917	0.03893
68	-4.50151	0.31131	0.10325	-4.55983	0.25300	0.04494
69	-4.39164	0.42301	0.14030	-4.47087	0.34377	0.06106
70	-4.71887	0.10389	0.03446	-4.73833	0.08443	0.01500
71	-4.71466	0.10387	0.03445	-4.73412	0.08441	0.01499
72	-4.66542	0.15122	0.05015	-4.69374	0.12289	0.02183
73	-4.67642	0.14459	0.04796	-4.70350	0.11751	0.02087
74	-4.72736	0.08685	0.02880	-4.74363	0.07058	0.01254
75	-4.74369	0.07374	0.02446	-4.75750	0.05993	0.01064
76	-4.75254	0.06535	0.02167	-4.76478	0.05311	0.00943

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.40 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.55187	0.00812	0.00164	-0.55151	0.00848	0.00201
2	-0.55155	0.00763	0.00154	-0.55121	0.00797	0.00189
3	-0.55212	0.00780	0.00158	-0.55177	0.00815	0.00193
4	-0.55258	0.00765	0.00155	-0.55224	0.00799	0.00189
5	-0.55139	0.00717	0.00145	-0.55107	0.00749	0.00177
6	-0.54657	0.00665	0.00135	-0.54628	0.00695	0.00164
7	-0.55150	0.00581	0.00118	-0.55124	0.00607	0.00144
8	-0.54786	0.00614	0.00124	-0.54759	0.00642	0.00152
9	-0.55368	0.00537	0.00109	-0.55344	0.00561	0.00133
10	-0.55164	0.00680	0.00138	-0.55134	0.00710	0.00168
11	-0.55510	0.00676	0.00137	-0.55480	0.00706	0.00167
12	-0.55432	0.00544	0.00110	-0.55408	0.00569	0.00135
13	-0.55748	0.00460	0.00093	-0.55727	0.00481	0.00114
14	-0.55888	0.00384	0.00078	-0.55871	0.00401	0.00095
15	-0.55158	0.00703	0.00142	-0.55127	0.00734	0.00174
16	-0.55353	0.00640	0.00129	-0.55325	0.00668	0.00158
17	-0.55461	0.00673	0.00136	-0.55431	0.00703	0.00166
18	-0.55167	0.00523	0.00106	-0.55143	0.00546	0.00129
19	-0.55336	0.00659	0.00133	-0.55307	0.00688	0.00163
20	-0.55603	0.00613	0.00124	-0.55576	0.00640	0.00151
21	-0.55671	0.00628	0.00127	-0.55643	0.00656	0.00155
22	-0.55400	0.00720	0.00146	-0.55368	0.00752	0.00178
23	-0.55482	0.00755	0.00153	-0.55448	0.00788	0.00186
24	-0.55558	0.00705	0.00143	-0.55526	0.00736	0.00174
25	-0.55505	0.00633	0.00128	-0.55477	0.00661	0.00156
26	-0.55810	0.00455	0.00092	-0.55789	0.00476	0.00113
27	-0.15982	-0.01031	0.00401	-0.15652	-0.00701	0.00731
28	-0.16089	-0.01058	0.00412	-0.15751	-0.00720	0.00750
29	-0.16019	-0.01097	0.00427	-0.15669	-0.00746	0.00777
30	-0.16113	-0.01192	0.00464	-0.15732	-0.00811	0.00845
31	-0.16056	-0.01140	0.00444	-0.15692	-0.00775	0.00808
32	-0.15948	-0.01046	0.00407	-0.15614	-0.00712	0.00741
33	-0.15895	-0.01024	0.00399	-0.15568	-0.00697	0.00726
34	-0.15880	-0.00940	0.00366	-0.15580	-0.00639	0.00666
35	-0.15754	-0.00866	0.00337	-0.15477	-0.00589	0.00614
36	-0.16371	-0.01405	0.00547	-0.15922	-0.00956	0.00996
37	-0.16329	-0.01420	0.00553	-0.15876	-0.00966	0.01006
38	-0.16244	-0.01290	0.00502	-0.15832	-0.00878	0.00914
39	-0.15975	-0.01228	0.00478	-0.15583	-0.00836	0.00870
40	-0.16144	-0.01243	0.00484	-0.15747	-0.00846	0.00881
41	-0.16267	-0.01293	0.00503	-0.15854	-0.00880	0.00916
42	-0.16317	-0.01318	0.00513	-0.15896	-0.00897	0.00934
43	-0.16298	-0.01305	0.00508	-0.15881	-0.00888	0.00925
44	-0.22331	0.00077	0.01379	-0.22411	-0.00003	0.01298
45	-0.21885	0.00063	0.01128	-0.21951	-0.00003	0.01063
46	-0.22709	0.00069	0.01225	-0.22780	-0.00003	0.01153
47	-0.22493	0.00060	0.01081	-0.22556	-0.00003	0.01018
48	-0.22548	0.00057	0.01019	-0.22607	-0.00002	0.00959
49	-0.22257	0.00059	0.01063	-0.22319	-0.00002	0.01001
50	-0.22560	0.00075	0.01338	-0.22638	-0.00003	0.01260
51	-0.22286	0.00056	0.01003	-0.22344	-0.00002	0.00945
52	-0.22717	0.00063	0.01127	-0.22782	-0.00003	0.01061
53	-0.22570	0.00067	0.01204	-0.22641	-0.00003	0.01134
54	-0.22245	0.00057	0.01023	-0.22305	-0.00002	0.00963
55	-0.22777	0.00063	0.01124	-0.22843	-0.00003	0.01059
56	-0.22620	0.00056	0.01008	-0.22678	-0.00002	0.00949
57	-0.22555	0.00066	0.01172	-0.22624	-0.00003	0.01104
58	-0.22183	0.00061	0.01082	-0.22247	-0.00003	0.01019
59	-0.22489	0.00062	0.01113	-0.22554	-0.00003	0.01049
60	-0.22221	0.00053	0.00950	-0.22277	-0.00002	0.00894
61	-0.22401	0.00049	0.00884	-0.22453	-0.00002	0.00832
62	-0.22592	0.00054	0.00966	-0.22648	-0.00002	0.00909
63	-0.61374	0.02300	0.00763	-0.61804	0.01869	0.00332
64	-0.61469	0.02299	0.00763	-0.61899	0.01868	0.00332
65	-0.61388	0.02258	0.00749	-0.61811	0.01835	0.00326
66	-0.62034	0.01662	0.00551	-0.62345	0.01350	0.00240
67	-0.60274	0.03573	0.01185	-0.60943	0.02903	0.00516
68	-0.59902	0.04143	0.01374	-0.60678	0.03367	0.00598
69	-0.58280	0.05614	0.01862	-0.59332	0.04562	0.00810
70	-0.62301	0.01372	0.00455	-0.62558	0.01115	0.00198
71	-0.62384	0.01374	0.00456	-0.62641	0.01117	0.00198
72	-0.62063	0.02012	0.00667	-0.62440	0.01635	0.00290
73	-0.61855	0.01913	0.00634	-0.62213	0.01554	0.00276
74	-0.61988	0.01139	0.00378	-0.62202	0.00925	0.00164
75	-0.62677	0.00974	0.00323	-0.62860	0.00792	0.00141
76	-0.62767	0.00863	0.00286	-0.62928	0.00701	0.00125

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.41 The Elasticities with respect to Distances from Model 2 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.47797	0.00703	0.00142	-0.47766	0.00735	0.00174
2	-0.53949	0.00746	0.00151	-0.53916	0.00779	0.00184
3	-0.51827	0.00732	0.00148	-0.51795	0.00765	0.00181
4	-0.53774	0.00744	0.00151	-0.53741	0.00777	0.00184
5	-0.60103	0.00781	0.00158	-0.60068	0.00816	0.00193
6	-0.66885	0.00814	0.00165	-0.66848	0.00851	0.00201
7	-0.80914	0.00852	0.00173	-0.80876	0.00891	0.00211
8	-0.75090	0.00842	0.00170	-0.75052	0.00879	0.00208
9	-0.88863	0.00862	0.00174	-0.88824	0.00900	0.00213
10	-0.65371	0.00806	0.00163	-0.65335	0.00842	0.00199
11	-0.66113	0.00805	0.00163	-0.66077	0.00841	0.00199
12	-0.87459	0.00859	0.00174	-0.87421	0.00898	0.00212
13	-1.04260	0.00861	0.00174	-1.04221	0.00899	0.00213
14	-1.22365	0.00840	0.00170	-1.22327	0.00878	0.00208
15	-0.62067	0.00791	0.00160	-0.62031	0.00826	0.00195
16	-0.71496	0.00826	0.00167	-0.71459	0.00863	0.00204
17	-0.66430	0.00806	0.00163	-0.66394	0.00843	0.00199
18	-0.91420	0.00866	0.00175	-0.91381	0.00905	0.00214
19	-0.68524	0.00816	0.00165	-0.68488	0.00852	0.00202
20	-0.75811	0.00835	0.00169	-0.75774	0.00873	0.00206
21	-0.73338	0.00828	0.00168	-0.73300	0.00865	0.00205
22	-0.59852	0.00777	0.00157	-0.59817	0.00812	0.00192
23	-0.55182	0.00750	0.00152	-0.55148	0.00784	0.00185
24	-0.61953	0.00786	0.00159	-0.61918	0.00821	0.00194
25	-0.72601	0.00828	0.00168	-0.72564	0.00865	0.00205
26	-1.05348	0.00859	0.00174	-1.05309	0.00898	0.00212
27	-0.61713	-0.03981	0.01549	-0.60442	-0.02709	0.02821
28	-0.59533	-0.03915	0.01524	-0.58282	-0.02664	0.02775
29	-0.55090	-0.03772	0.01468	-0.53885	-0.02567	0.02674
30	-0.46426	-0.03433	0.01336	-0.45328	-0.02336	0.02434
31	-0.51081	-0.03625	0.01411	-0.49923	-0.02467	0.02570
32	-0.59906	-0.03929	0.01530	-0.58650	-0.02674	0.02785
33	-0.61866	-0.03987	0.01552	-0.60592	-0.02713	0.02826
34	-0.71110	-0.04207	0.01638	-0.69766	-0.02863	0.02982
35	-0.79165	-0.04353	0.01694	-0.77774	-0.02962	0.03085
36	-0.29212	-0.02507	0.00976	-0.28411	-0.01706	0.01777
37	-0.27659	-0.02405	0.00936	-0.26890	-0.01636	0.01704
38	-0.38261	-0.03039	0.01183	-0.37291	-0.02068	0.02154
39	-0.41999	-0.03228	0.01257	-0.40968	-0.02197	0.02288
40	-0.41800	-0.03219	0.01253	-0.40771	-0.02191	0.02282
41	-0.38192	-0.03035	0.01181	-0.37222	-0.02065	0.02151
42	-0.36299	-0.02932	0.01141	-0.35362	-0.01995	0.02078
43	-0.37321	-0.02988	0.01163	-0.36366	-0.02033	0.02118
44	-0.42184	0.00146	0.02604	-0.42335	-0.00006	0.02453
45	-0.55026	0.00159	0.02837	-0.55191	-0.00007	0.02672
46	-0.60011	0.00181	0.03237	-0.60199	-0.00008	0.03048
47	-0.70977	0.00191	0.03410	-0.71176	-0.00008	0.03211
48	-0.77781	0.00197	0.03514	-0.77986	-0.00008	0.03309
49	-0.69716	0.00186	0.03329	-0.69910	-0.00008	0.03135
50	-0.49119	0.00163	0.02913	-0.49288	-0.00007	0.02743
51	-0.76400	0.00192	0.03439	-0.76600	-0.00008	0.03239
52	-0.68771	0.00191	0.03411	-0.68970	-0.00008	0.03212
53	-0.60436	0.00180	0.03223	-0.60624	-0.00008	0.03036
54	-0.73731	0.00190	0.03390	-0.73929	-0.00008	0.03193
55	-0.69507	0.00192	0.03431	-0.69707	-0.00008	0.03231
56	-0.79559	0.00198	0.03544	-0.79765	-0.00008	0.03337
57	-0.63103	0.00183	0.03279	-0.63294	-0.00008	0.03088
58	-0.66521	0.00182	0.03245	-0.66710	-0.00008	0.03056
59	-0.67778	0.00188	0.03356	-0.67974	-0.00008	0.03160
60	-0.81466	0.00195	0.03481	-0.81669	-0.00008	0.03278
61	-0.91204	0.00201	0.03599	-0.91413	-0.00008	0.03389
62	-0.83735	0.00200	0.03579	-0.83944	-0.00008	0.03370
63	-2.41762	0.09060	0.03005	-2.43459	0.07363	0.01308
64	-2.42421	0.09067	0.03007	-2.44119	0.07369	0.01309
65	-2.43603	0.08961	0.02972	-2.45281	0.07282	0.01294
66	-2.76187	0.07397	0.02453	-2.77573	0.06012	0.01068
67	-1.95567	0.11592	0.03845	-1.97738	0.09421	0.01673
68	-1.80648	0.12493	0.04144	-1.82988	0.10153	0.01803
69	-1.48213	0.14276	0.04735	-1.50887	0.11602	0.02061
70	-2.95953	0.06516	0.02161	-2.97173	0.05295	0.00941
71	-2.96218	0.06526	0.02164	-2.97440	0.05304	0.00942
72	-2.56695	0.08320	0.02760	-2.58253	0.06762	0.01201
73	-2.61377	0.08082	0.02680	-2.62891	0.06568	0.01167
74	-3.15812	0.05802	0.01924	-3.16899	0.04715	0.00838
75	-3.32036	0.05161	0.01712	-3.33003	0.04195	0.00745
76	-3.44521	0.04737	0.01571	-3.45408	0.03850	0.00684

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.42 The Elasticities with respect to Wages from Model 3 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-3.86549	0.01387	0.01594	-3.86180	0.01756	0.01962
2	-3.87079	0.00855	0.00983	-3.86852	0.01083	0.01210
3	-3.86536	0.01399	0.01608	-3.86164	0.01771	0.01980
4	-3.87048	0.00898	0.01032	-3.86809	0.01137	0.01271
5	-3.86936	0.00984	0.01131	-3.86675	0.01246	0.01393
6	-3.87178	0.00925	0.01063	-3.86932	0.01171	0.01309
7	-3.87126	0.00805	0.00925	-3.86911	0.01020	0.01140
8	-3.87029	0.00934	0.01074	-3.86780	0.01183	0.01322
9	-3.87192	0.00829	0.00953	-3.86971	0.01049	0.01173
10	-3.86941	0.00979	0.01125	-3.86680	0.01240	0.01386
11	-3.87071	0.00979	0.01124	-3.86810	0.01239	0.01385
12	-3.87249	0.00808	0.00929	-3.87034	0.01023	0.01144
13	-3.87380	0.00854	0.00981	-3.87153	0.01081	0.01208
14	-3.87479	0.00861	0.00989	-3.87250	0.01090	0.01218
15	-3.87027	0.00901	0.01036	-3.86787	0.01141	0.01276
16	-3.86283	0.01703	0.01957	-3.85830	0.02156	0.02410
17	-3.87254	0.00774	0.00889	-3.87048	0.00980	0.01095
18	-3.87269	0.00678	0.00779	-3.87089	0.00859	0.00960
19	-3.87112	0.00866	0.00995	-3.86882	0.01096	0.01225
20	-3.87342	0.00757	0.00870	-3.87141	0.00958	0.01071
21	-3.87165	0.00973	0.01118	-3.86906	0.01231	0.01376
22	-3.87082	0.00910	0.01046	-3.86840	0.01153	0.01288
23	-3.87184	0.00838	0.00963	-3.86961	0.01060	0.01185
24	-3.87193	0.00866	0.00995	-3.86963	0.01096	0.01225
25	-3.87126	0.00925	0.01063	-3.86880	0.01171	0.01309
26	-3.87544	0.00722	0.00829	-3.87352	0.00914	0.01021
27	-2.40164	-0.06155	0.03097	-2.37213	-0.03205	0.06048
28	-2.39698	-0.05758	0.02897	-2.36938	-0.02998	0.05658
29	-2.39779	-0.05696	0.02866	-2.37048	-0.02966	0.05597
30	-2.40975	-0.06810	0.03427	-2.37711	-0.03546	0.06691
31	-2.40017	-0.05897	0.02967	-2.37190	-0.03070	0.05794
32	-2.40586	-0.06555	0.03298	-2.37443	-0.03413	0.06440
33	-2.39410	-0.05332	0.02683	-2.36854	-0.02776	0.05239
34	-2.38808	-0.04717	0.02373	-2.36547	-0.02456	0.04634
35	-2.38069	-0.04161	0.02093	-2.36075	-0.02166	0.04088
36	-2.41922	-0.07598	0.03823	-2.38279	-0.03956	0.07465
37	-2.41595	-0.07102	0.03574	-2.38191	-0.03698	0.06978
38	-2.41236	-0.07024	0.03534	-2.37869	-0.03657	0.06901
39	-2.40912	-0.06279	0.03159	-2.37903	-0.03269	0.06169
40	-2.41157	-0.06901	0.03472	-2.37849	-0.03593	0.06780
41	-2.40783	-0.06613	0.03327	-2.37613	-0.03443	0.06498
42	-2.40461	-0.06310	0.03175	-2.37437	-0.03285	0.06200
43	-2.40373	-0.06238	0.03139	-2.37383	-0.03248	0.06129
44	-23.00249	1.13125	0.10640	-23.00121	1.13253	0.10768
45	-23.90199	0.98392	0.09254	-23.90088	0.98504	0.09365
46	-20.76603	2.72320	0.25612	-20.76296	2.72627	0.25920
47	-23.08734	0.50699	0.04768	-23.08677	0.50756	0.04826
48	-21.82013	1.67792	0.15781	-21.81824	1.67982	0.15971
49	-23.55958	0.32067	0.03016	-23.55921	0.32104	0.03052
50	-22.75741	0.94946	0.08930	-22.75634	0.95053	0.09037
51	-23.35520	0.41269	0.03881	-23.35473	0.41316	0.03928
52	-21.57927	1.85276	0.17426	-21.57718	1.85485	0.17635
53	-21.02003	2.58154	0.24280	-21.01712	2.58446	0.24572
54	-22.41951	1.42894	0.13440	-22.41790	1.43055	0.13601
55	-22.68103	0.71026	0.06680	-22.68022	0.71107	0.06760
56	-22.48335	0.95436	0.08976	-22.48228	0.95544	0.09084
57	-20.99963	2.59488	0.24406	-20.99670	2.59781	0.24699
58	-23.06224	0.97229	0.09145	-23.06114	0.97339	0.09255
59	-23.05550	0.56720	0.05335	-23.05486	0.56784	0.05399
60	-23.50298	0.29181	0.02745	-23.50265	0.29214	0.02778
61	-22.98081	0.54712	0.05146	-22.98019	0.54773	0.05208
62	-22.91784	0.51584	0.04852	-22.91725	0.51642	0.04910
63	-8.56021	0.65965	0.11440	-8.62150	0.59836	0.05310
64	-8.64273	0.56617	0.09819	-8.69533	0.51356	0.04558
65	-8.71515	0.50628	0.08780	-8.76220	0.45924	0.04076
66	-8.81204	0.40340	0.06996	-8.84953	0.36592	0.03248
67	-8.47815	0.73641	0.12771	-8.54658	0.66799	0.05928
68	-8.22333	0.97838	0.16967	-8.31423	0.88747	0.07876
69	-8.49977	0.70540	0.12233	-8.56532	0.63986	0.05679
70	-8.97238	0.24833	0.04307	-8.99545	0.22525	0.01999
71	-8.94107	0.27154	0.04709	-8.96630	0.24631	0.02186
72	-8.74000	0.46899	0.08133	-8.78357	0.42541	0.03776
73	-8.87685	0.34049	0.05905	-8.90849	0.30885	0.02741
74	-9.10061	0.10373	0.01799	-9.11025	0.09410	0.00835
75	-8.89831	0.31218	0.05414	-8.92732	0.28318	0.02513
76	-9.11987	0.09151	0.01587	-9.12838	0.08301	0.00737

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.43 The Elasticities with respect to Employment Rates from Model 3 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.07491	0.00027	0.00031	-0.07484	0.00034	0.00038
2	-0.07491	0.00017	0.00019	-0.07486	0.00021	0.00023
3	-0.07490	0.00027	0.00031	-0.07483	0.00034	0.00038
4	-0.07504	0.00017	0.00020	-0.07499	0.00022	0.00025
5	-0.07480	0.00019	0.00022	-0.07475	0.00024	0.00027
6	-0.07410	0.00018	0.00020	-0.07405	0.00022	0.00025
7	-0.07467	0.00016	0.00018	-0.07462	0.00020	0.00022
8	-0.07420	0.00018	0.00021	-0.07415	0.00023	0.00025
9	-0.07489	0.00016	0.00018	-0.07485	0.00020	0.00023
10	-0.07478	0.00019	0.00022	-0.07473	0.00024	0.00027
11	-0.07524	0.00019	0.00022	-0.07519	0.00024	0.00027
12	-0.07499	0.00016	0.00018	-0.07495	0.00020	0.00022
13	-0.07530	0.00017	0.00019	-0.07525	0.00021	0.00023
14	-0.07538	0.00017	0.00019	-0.07534	0.00021	0.00024
15	-0.07482	0.00017	0.00020	-0.07477	0.00022	0.00025
16	-0.07484	0.00033	0.00038	-0.07475	0.00042	0.00047
17	-0.07521	0.00015	0.00017	-0.07517	0.00019	0.00021
18	-0.07463	0.00013	0.00015	-0.07460	0.00017	0.00018
19	-0.07501	0.00017	0.00019	-0.07496	0.00021	0.00024
20	-0.07532	0.00015	0.00017	-0.07529	0.00019	0.00021
21	-0.07539	0.00019	0.00022	-0.07534	0.00024	0.00027
22	-0.07517	0.00018	0.00020	-0.07512	0.00022	0.00025
23	-0.07534	0.00016	0.00019	-0.07529	0.00021	0.00023
24	-0.07537	0.00017	0.00019	-0.07532	0.00021	0.00024
25	-0.07519	0.00018	0.00021	-0.07514	0.00023	0.00025
26	-0.07540	0.00014	0.00016	-0.07536	0.00018	0.00020
27	-0.04643	-0.00119	0.00060	-0.04586	-0.00062	0.00117
28	-0.04660	-0.00112	0.00056	-0.04607	-0.00058	0.00110
29	-0.04625	-0.00110	0.00055	-0.04573	-0.00057	0.00108
30	-0.04646	-0.00131	0.00066	-0.04583	-0.00068	0.00129
31	-0.04627	-0.00114	0.00057	-0.04573	-0.00059	0.00112
32	-0.04636	-0.00126	0.00064	-0.04575	-0.00066	0.00124
33	-0.04602	-0.00103	0.00052	-0.04553	-0.00053	0.00101
34	-0.04612	-0.00091	0.00046	-0.04568	-0.00047	0.00089
35	-0.04585	-0.00080	0.00040	-0.04547	-0.00042	0.00079
36	-0.04675	-0.00147	0.00074	-0.04605	-0.00076	0.00144
37	-0.04648	-0.00137	0.00069	-0.04583	-0.00071	0.00134
38	-0.04661	-0.00136	0.00068	-0.04596	-0.00071	0.00133
39	-0.04582	-0.00119	0.00060	-0.04525	-0.00062	0.00117
40	-0.04642	-0.00133	0.00067	-0.04578	-0.00069	0.00131
41	-0.04659	-0.00128	0.00064	-0.04598	-0.00067	0.00126
42	-0.04661	-0.00122	0.00062	-0.04602	-0.00064	0.00120
43	-0.04658	-0.00121	0.00061	-0.04600	-0.00063	0.00119
44	-0.42197	0.02075	0.00195	-0.42194	0.02078	0.00198
45	-0.41648	0.01714	0.00161	-0.41646	0.01716	0.00163
46	-0.39784	0.05217	0.00491	-0.39778	0.05223	0.00497
47	-0.43601	0.00957	0.00090	-0.43600	0.00959	0.00091
48	-0.41471	0.03189	0.00300	-0.41468	0.03193	0.00304
49	-0.43498	0.00592	0.00056	-0.43497	0.00593	0.00056
50	-0.42929	0.01791	0.00168	-0.42927	0.01793	0.00170
51	-0.43375	0.00766	0.00072	-0.43374	0.00767	0.00073
52	-0.41447	0.03559	0.00335	-0.41443	0.03563	0.00339
53	-0.39833	0.04892	0.00460	-0.39828	0.04898	0.00466
54	-0.41423	0.02640	0.00248	-0.41420	0.02643	0.00251
55	-0.43756	0.01370	0.00129	-0.43754	0.01372	0.00130
56	-0.42977	0.01824	0.00172	-0.42975	0.01826	0.00174
57	-0.39777	0.04915	0.00462	-0.39772	0.04921	0.00468
58	-0.42170	0.01778	0.00167	-0.42168	0.01780	0.00169
59	-0.43485	0.01070	0.00101	-0.43483	0.01071	0.00102
60	-0.43468	0.00540	0.00051	-0.43468	0.00540	0.00051
61	-0.43324	0.01031	0.00097	-0.43323	0.01033	0.00098
62	-0.43756	0.00985	0.00093	-0.43755	0.00986	0.00094
63	-0.16514	0.01273	0.00221	-0.16633	0.01154	0.00102
64	-0.16718	0.01095	0.00190	-0.16820	0.00993	0.00088
65	-0.16803	0.00976	0.00169	-0.16894	0.00885	0.00079
66	-0.17014	0.00779	0.00135	-0.17087	0.00707	0.00063
67	-0.16410	0.01425	0.00247	-0.16542	0.01293	0.00115
68	-0.15988	0.01902	0.00330	-0.16165	0.01725	0.00153
69	-0.16481	0.01368	0.00237	-0.16608	0.01241	0.00110
70	-0.17308	0.00479	0.00083	-0.17352	0.00435	0.00039
71	-0.17286	0.00525	0.00091	-0.17334	0.00476	0.00042
72	-0.16987	0.00912	0.00158	-0.17072	0.00827	0.00073
73	-0.17155	0.00658	0.00114	-0.17216	0.00597	0.00053
74	-0.17436	0.00199	0.00034	-0.17454	0.00180	0.00016
75	-0.17178	0.00603	0.00105	-0.17234	0.00547	0.00049
76	-0.17598	0.00177	0.00031	-0.17615	0.00160	0.00014

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.44 The Elasticities with respect to Distances from Model 3 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.15943	0.00057	0.00066	-0.15928	0.00072	0.00081
2	-0.18004	0.00040	0.00046	-0.17994	0.00050	0.00056
3	-0.17277	0.00063	0.00072	-0.17260	0.00079	0.00088
4	-0.17944	0.00042	0.00048	-0.17933	0.00053	0.00059
5	-0.20035	0.00051	0.00059	-0.20021	0.00065	0.00072
6	-0.22281	0.00053	0.00061	-0.22266	0.00067	0.00075
7	-0.26919	0.00056	0.00064	-0.26904	0.00071	0.00079
8	-0.24989	0.00060	0.00069	-0.24973	0.00076	0.00085
9	-0.29537	0.00063	0.00073	-0.29520	0.00080	0.00089
10	-0.21776	0.00055	0.00063	-0.21762	0.00070	0.00078
11	-0.22020	0.00056	0.00064	-0.22006	0.00070	0.00079
12	-0.29075	0.00061	0.00070	-0.29059	0.00077	0.00086
13	-0.34603	0.00076	0.00088	-0.34583	0.00097	0.00108
14	-0.40555	0.00090	0.00104	-0.40531	0.00114	0.00127
15	-0.20688	0.00048	0.00055	-0.20676	0.00061	0.00068
16	-0.23754	0.00105	0.00120	-0.23726	0.00133	0.00148
17	-0.22137	0.00044	0.00051	-0.22125	0.00056	0.00063
18	-0.30392	0.00053	0.00061	-0.30378	0.00067	0.00075
19	-0.22824	0.00051	0.00059	-0.22811	0.00065	0.00072
20	-0.25236	0.00049	0.00057	-0.25223	0.00062	0.00070
21	-0.24406	0.00061	0.00070	-0.24389	0.00078	0.00087
22	-0.19955	0.00047	0.00054	-0.19942	0.00059	0.00066
23	-0.18412	0.00040	0.00046	-0.18402	0.00050	0.00056
24	-0.20651	0.00046	0.00053	-0.20639	0.00058	0.00065
25	-0.24166	0.00058	0.00066	-0.24151	0.00073	0.00082
26	-0.34973	0.00065	0.00075	-0.34955	0.00082	0.00092
27	-0.44057	-0.01129	0.00568	-0.43516	-0.00588	0.01109
28	-0.42374	-0.01018	0.00512	-0.41886	-0.00530	0.01000
29	-0.39087	-0.00929	0.00467	-0.38641	-0.00483	0.00912
30	-0.32897	-0.00930	0.00468	-0.32452	-0.00484	0.00913
31	-0.36175	-0.00889	0.00447	-0.35749	-0.00463	0.00873
32	-0.42788	-0.01166	0.00587	-0.42229	-0.00607	0.01145
33	-0.44017	-0.00980	0.00493	-0.43547	-0.00510	0.00963
34	-0.50749	-0.01002	0.00504	-0.50269	-0.00522	0.00985
35	-0.56617	-0.00989	0.00498	-0.56143	-0.00515	0.00972
36	-0.20501	-0.00644	0.00324	-0.20192	-0.00335	0.00633
37	-0.19347	-0.00569	0.00286	-0.19074	-0.00296	0.00559
38	-0.26976	-0.00785	0.00395	-0.26600	-0.00409	0.00772
39	-0.29600	-0.00771	0.00388	-0.29230	-0.00402	0.00758
40	-0.29532	-0.00845	0.00425	-0.29127	-0.00440	0.00830
41	-0.26880	-0.00738	0.00371	-0.26526	-0.00384	0.00725
42	-0.25479	-0.00669	0.00336	-0.25159	-0.00348	0.00657
43	-0.26209	-0.00680	0.00342	-0.25883	-0.00354	0.00668
44	-1.95872	0.09633	0.00906	-1.95861	0.09644	0.00917
45	-2.57322	0.10593	0.00996	-2.57310	0.10605	0.01008
46	-2.58346	0.33879	0.03186	-2.58308	0.33917	0.03225
47	-3.38091	0.07424	0.00698	-3.38082	0.07433	0.00707
48	-3.51543	0.27033	0.02543	-3.51512	0.27063	0.02573
49	-3.34809	0.04557	0.00429	-3.34804	0.04562	0.00434
50	-2.29674	0.09582	0.00901	-2.29664	0.09593	0.00912
51	-3.65390	0.06457	0.00607	-3.65383	0.06464	0.00615
52	-3.08329	0.26473	0.02490	-3.08299	0.26503	0.02520
53	-2.62096	0.32189	0.03027	-2.62060	0.32225	0.03064
54	-3.37376	0.21503	0.02022	-3.37351	0.21527	0.02047
55	-3.28106	0.10275	0.00966	-3.28094	0.10286	0.00978
56	-3.71445	0.15767	0.01483	-3.71427	0.15785	0.01501
57	-2.73459	0.33791	0.03178	-2.73421	0.33829	0.03216
58	-3.10735	0.13100	0.01232	-3.10720	0.13115	0.01247
59	-3.22045	0.07923	0.00745	-3.22036	0.07932	0.00754
60	-3.91594	0.04862	0.00457	-3.91588	0.04867	0.00463
61	-4.33443	0.10319	0.00971	-4.33432	0.10331	0.00982
62	-3.98529	0.08970	0.00844	-3.98519	0.08980	0.00854
63	-1.59855	0.12318	0.02136	-1.60999	0.11174	0.00992
64	-1.62017	0.10613	0.01841	-1.63003	0.09627	0.00854
65	-1.63850	0.09518	0.01651	-1.64735	0.08634	0.00766
66	-1.86141	0.08521	0.01478	-1.86933	0.07730	0.00686
67	-1.30837	0.11364	0.01971	-1.31893	0.10309	0.00915
68	-1.18483	0.14097	0.02445	-1.19792	0.12787	0.01135
69	-1.02991	0.08547	0.01482	-1.03785	0.07753	0.00688
70	-2.02033	0.05592	0.00970	-2.02553	0.05072	0.00450
71	-2.01689	0.06125	0.01062	-2.02258	0.05556	0.00493
72	-1.72651	0.09265	0.01607	-1.73512	0.08404	0.00746
73	-1.78133	0.06833	0.01185	-1.78768	0.06198	0.00550
74	-2.18279	0.02488	0.00431	-2.18510	0.02257	0.00200
75	-2.23619	0.07845	0.01361	-2.24348	0.07116	0.00632
76	-2.37361	0.02382	0.00413	-2.37583	0.02160	0.00192

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.45 The Elasticities with respect to Food Expense Shares from Model 3 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.27176	0.00097	0.00112	-0.27150	0.00123	0.00138
2	-0.59214	0.00131	0.00150	-0.59179	0.00166	0.00185
3	-0.46533	0.00168	0.00194	-0.46488	0.00213	0.00238
4	-0.62453	0.00145	0.00167	-0.62414	0.00183	0.00205
5	-0.59961	0.00153	0.00175	-0.59920	0.00193	0.00216
6	-0.59601	0.00142	0.00164	-0.59563	0.00180	0.00201
7	-0.68299	0.00142	0.00163	-0.68261	0.00180	0.00201
8	-0.52660	0.00127	0.00146	-0.52626	0.00161	0.00180
9	-0.60805	0.00130	0.00150	-0.60771	0.00165	0.00184
10	-0.49517	0.00125	0.00144	-0.49483	0.00159	0.00177
11	-0.59286	0.00150	0.00172	-0.59246	0.00190	0.00212
12	-0.58557	0.00122	0.00140	-0.58525	0.00155	0.00173
13	-0.51176	0.00113	0.00130	-0.51146	0.00143	0.00160
14	-0.39161	0.00087	0.00100	-0.39137	0.00110	0.00123
15	-0.60027	0.00140	0.00161	-0.59990	0.00177	0.00198
16	-0.53689	0.00237	0.00272	-0.53626	0.00300	0.00335
17	-0.70203	0.00140	0.00161	-0.70166	0.00178	0.00199
18	-0.71398	0.00125	0.00144	-0.71365	0.00158	0.00177
19	-0.52173	0.00117	0.00134	-0.52142	0.00148	0.00165
20	-0.67670	0.00132	0.00152	-0.67635	0.00167	0.00187
21	-0.56792	0.00143	0.00164	-0.56754	0.00181	0.00202
22	-0.53175	0.00125	0.00144	-0.53142	0.00158	0.00177
23	-0.64539	0.00140	0.00160	-0.64502	0.00177	0.00198
24	-0.69780	0.00156	0.00179	-0.69739	0.00198	0.00221
25	-0.71039	0.00170	0.00195	-0.70994	0.00215	0.00240
26	-0.77521	0.00144	0.00166	-0.77483	0.00183	0.00204
27	-0.42117	-0.01079	0.00543	-0.41600	-0.00562	0.01061
28	-0.44817	-0.01077	0.00542	-0.44301	-0.00561	0.01058
29	-0.40239	-0.00956	0.00481	-0.39781	-0.00498	0.00939
30	-0.42185	-0.01192	0.00600	-0.41613	-0.00621	0.01171
31	-0.41419	-0.01018	0.00512	-0.40932	-0.00530	0.01000
32	-0.45003	-0.01226	0.00617	-0.44415	-0.00638	0.01205
33	-0.54936	-0.01224	0.00616	-0.54349	-0.00637	0.01202
34	-0.50411	-0.00996	0.00501	-0.49933	-0.00518	0.00978
35	-0.66273	-0.01158	0.00583	-0.65718	-0.00603	0.01138
36	-0.31338	-0.00984	0.00495	-0.30866	-0.00512	0.00967
37	-0.38022	-0.01118	0.00562	-0.37486	-0.00582	0.01098
38	-0.35709	-0.01040	0.00523	-0.35211	-0.00541	0.01022
39	-0.42465	-0.01107	0.00557	-0.41935	-0.00576	0.01087
40	-0.39330	-0.01125	0.00566	-0.38790	-0.00586	0.01106
41	-0.48302	-0.01327	0.00668	-0.47666	-0.00691	0.01303
42	-0.43597	-0.01144	0.00576	-0.43048	-0.00596	0.01124
43	-0.41274	-0.01071	0.00539	-0.40760	-0.00558	0.01052
44	-4.00643	0.19703	0.01853	-4.00621	0.19726	0.01875
45	-3.60081	0.14823	0.01394	-3.60064	0.14839	0.01411
46	-3.36468	0.44123	0.04150	-3.36419	0.44173	0.04200
47	-4.69334	0.10306	0.00969	-4.69322	0.10318	0.00981
48	-4.36779	0.33587	0.03159	-4.36741	0.33625	0.03197
49	-4.73172	0.06440	0.00606	-4.73165	0.06448	0.00613
50	-4.37366	0.18247	0.01716	-4.37346	0.18268	0.01737
51	-4.73325	0.08364	0.00787	-4.73316	0.08373	0.00796
52	-4.52501	0.38851	0.03654	-4.52457	0.38895	0.03698
53	-3.84050	0.47166	0.04436	-3.83996	0.47220	0.04489
54	-4.28591	0.27317	0.02569	-4.28560	0.27348	0.02600
55	-4.60325	0.14415	0.01356	-4.60309	0.14431	0.01372
56	-4.41799	0.18753	0.01764	-4.41777	0.18774	0.01785
57	-3.08368	0.38104	0.03584	-3.08325	0.38147	0.03627
58	-3.89394	0.16417	0.01544	-3.89375	0.16435	0.01563
59	-4.44805	0.10943	0.01029	-4.44792	0.10955	0.01042
60	-4.81962	0.05984	0.00563	-4.81955	0.05991	0.00570
61	-5.12095	0.12192	0.01147	-5.12082	0.12206	0.01160
62	-4.76107	0.10716	0.01008	-4.76095	0.10728	0.01020
63	-1.05364	0.08119	0.01408	-1.06118	0.07365	0.00654
64	-0.71588	0.04690	0.00813	-0.72023	0.04254	0.00378
65	-1.29966	0.07550	0.01309	-1.30668	0.06849	0.00608
66	-1.20605	0.05521	0.00957	-1.21118	0.05008	0.00444
67	-0.85385	0.07417	0.01286	-0.86075	0.06727	0.00597
68	-1.11894	0.13313	0.02309	-1.13131	0.12076	0.01072
69	-1.09732	0.09107	0.01579	-1.10578	0.08261	0.00733
70	-1.33207	0.03687	0.00639	-1.33549	0.03344	0.00297
71	-1.51215	0.04592	0.00796	-1.51642	0.04166	0.00370
72	-0.98659	0.05294	0.00918	-0.99151	0.04802	0.00426
73	-1.28495	0.04929	0.00855	-1.28953	0.04471	0.00397
74	-1.98001	0.02257	0.00391	-1.98211	0.02047	0.00182
75	-1.30457	0.04577	0.00794	-1.30882	0.04152	0.00368
76	-1.90171	0.01908	0.00331	-1.90348	0.01731	0.00154

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.46 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 2 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.25940	-0.00093	-0.00107	0.25915	-0.00118	-0.00132
2	0.30423	-0.00067	-0.00077	0.30405	-0.00085	-0.00095
3	0.24484	-0.00089	-0.00102	0.24461	-0.00112	-0.00125
4	0.27881	-0.00065	-0.00074	0.27864	-0.00082	-0.00092
5	0.23422	-0.00060	-0.00068	0.23406	-0.00075	-0.00084
6	0.24555	-0.00059	-0.00067	0.24539	-0.00074	-0.00083
7	0.27970	-0.00058	-0.00067	0.27954	-0.00074	-0.00082
8	0.19620	-0.00047	-0.00054	0.19608	-0.00060	-0.00067
9	0.23952	-0.00051	-0.00059	0.23938	-0.00065	-0.00073
10	0.18142	-0.00046	-0.00053	0.18129	-0.00058	-0.00065
11	0.22691	-0.00057	-0.00066	0.22676	-0.00073	-0.00081
12	0.22504	-0.00047	-0.00054	0.22491	-0.00059	-0.00066
13	0.19411	-0.00043	-0.00049	0.19399	-0.00054	-0.00061
14	0.16737	-0.00037	-0.00043	0.16727	-0.00047	-0.00053
15	0.20905	-0.00049	-0.00056	0.20892	-0.00062	-0.00069
16	0.18710	-0.00082	-0.00095	0.18688	-0.00104	-0.00117
17	0.28163	-0.00056	-0.00065	0.28148	-0.00071	-0.00080
18	0.26442	-0.00046	-0.00053	0.26429	-0.00059	-0.00066
19	0.26157	-0.00059	-0.00067	0.26141	-0.00074	-0.00083
20	0.30418	-0.00059	-0.00068	0.30402	-0.00075	-0.00084
21	0.30659	-0.00077	-0.00089	0.30639	-0.00098	-0.00109
22	0.23660	-0.00056	-0.00064	0.23645	-0.00070	-0.00079
23	0.27928	-0.00060	-0.00069	0.27912	-0.00076	-0.00086
24	0.37045	-0.00083	-0.00095	0.37023	-0.00105	-0.00117
25	0.23452	-0.00056	-0.00064	0.23437	-0.00071	-0.00079
26	0.26959	-0.00050	-0.00058	0.26946	-0.00064	-0.00071
27	0.14896	0.00382	-0.00192	0.14713	0.00199	-0.00375
28	0.14569	0.00350	-0.00176	0.14401	0.00182	-0.00344
29	0.14600	0.00347	-0.00175	0.14434	0.00181	-0.00341
30	0.15364	0.00434	-0.00218	0.15156	0.00226	-0.00427
31	0.14926	0.00367	-0.00185	0.14750	0.00191	-0.00360
32	0.16477	0.00449	-0.00226	0.16261	0.00234	-0.00441
33	0.18766	0.00418	-0.00210	0.18566	0.00218	-0.00411
34	0.18239	0.00360	-0.00181	0.18067	0.00188	-0.00354
35	0.29029	0.00507	-0.00255	0.28786	0.00264	-0.00498
36	0.12930	0.00406	-0.00204	0.12735	0.00211	-0.00399
37	0.14569	0.00428	-0.00215	0.14364	0.00223	-0.00421
38	0.14689	0.00428	-0.00215	0.14484	0.00223	-0.00420
39	0.20573	0.00536	-0.00270	0.20316	0.00279	-0.00527
40	0.15200	0.00435	-0.00219	0.14992	0.00226	-0.00427
41	0.15624	0.00429	-0.00216	0.15418	0.00223	-0.00422
42	0.15370	0.00403	-0.00203	0.15177	0.00210	-0.00396
43	0.17383	0.00451	-0.00227	0.17167	0.00235	-0.00443

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	1.32744	-0.06528	-0.00614	1.32736	-0.06536	-0.00621
45	1.51733	-0.06246	-0.00587	1.51726	-0.06253	-0.00595
46	1.33482	-0.17504	-0.01646	1.33463	-0.17524	-0.01666
47	1.93227	-0.04243	-0.00399	1.93222	-0.04248	-0.00404
48	1.15191	-0.08858	-0.00833	1.15181	-0.08868	-0.00843
49	1.59241	-0.02167	-0.00204	1.59239	-0.02170	-0.00206
50	1.61084	-0.06721	-0.00632	1.61076	-0.06728	-0.00640
51	1.65485	-0.02924	-0.00275	1.65481	-0.02927	-0.00278
52	1.45472	-0.12490	-0.01175	1.45457	-0.12504	-0.01189
53	1.52826	-0.18769	-0.01765	1.52805	-0.18790	-0.01786
54	1.15697	-0.07374	-0.00694	1.15689	-0.07382	-0.00702
55	1.40651	-0.04405	-0.00414	1.40646	-0.04410	-0.00419
56	1.52570	-0.06476	-0.00609	1.52562	-0.06483	-0.00616
57	0.96883	-0.11972	-0.01126	0.96869	-0.11985	-0.01139
58	1.30558	-0.05504	-0.00518	1.30552	-0.05510	-0.00524
59	1.53646	-0.03780	-0.00356	1.53642	-0.03784	-0.00360
60	1.73319	-0.02152	-0.00202	1.73317	-0.02154	-0.00205
61	1.87941	-0.04474	-0.00421	1.87936	-0.04479	-0.00426
62	1.35396	-0.03048	-0.00287	1.35392	-0.03051	-0.00290
63	0.36956	-0.02848	-0.00494	0.37221	-0.02583	-0.00229
64	0.32657	-0.02139	-0.00371	0.32856	-0.01941	-0.00172
65	0.44158	-0.02565	-0.00445	0.44397	-0.02327	-0.00207
66	0.53612	-0.02454	-0.00426	0.53840	-0.02226	-0.00198
67	0.30815	-0.02677	-0.00464	0.31064	-0.02428	-0.00215
68	0.39127	-0.04655	-0.00807	0.39559	-0.04223	-0.00375
69	0.38043	-0.03157	-0.00548	0.38337	-0.02864	-0.00254
70	0.44072	-0.01220	-0.00212	0.44185	-0.01106	-0.00098
71	0.54220	-0.01647	-0.00286	0.54373	-0.01494	-0.00133
72	0.30871	-0.01657	-0.00287	0.31025	-0.01503	-0.00133
73	0.45500	-0.01745	-0.00303	0.45662	-0.01583	-0.00140
74	0.79369	-0.00905	-0.00157	0.79453	-0.00821	-0.00073
75	0.51674	-0.01813	-0.00314	0.51843	-0.01644	-0.00146
76	0.70586	-0.00708	-0.00123	0.70652	-0.00642	-0.00057

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.47 The Elasticities with respect to Wages from Model 2 of Group 2 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	6.41231	-0.19151	-0.00536	6.39546	-0.20835	-0.02221
2	6.42599	-0.17730	-0.00496	6.41039	-0.19289	-0.02056
3	6.41002	-0.17730	-0.00496	6.39442	-0.19290	-0.02056
4	6.42584	-0.17407	-0.00487	6.41052	-0.18939	-0.02019
5	6.44199	-0.15788	-0.00442	6.42810	-0.17177	-0.01831
6	6.46868	-0.14511	-0.00406	6.45591	-0.15787	-0.01683
7	6.43737	-0.10944	-0.00306	6.42774	-0.11907	-0.01269
8	6.45043	-0.12280	-0.00344	6.43962	-0.13360	-0.01424
9	6.44198	-0.09797	-0.00274	6.43336	-0.10659	-0.01136
10	6.42858	-0.13635	-0.00382	6.41659	-0.14835	-0.01581
11	6.42422	-0.13613	-0.00381	6.41225	-0.14811	-0.01579
12	6.44982	-0.09690	-0.00271	6.44130	-0.10543	-0.01124
13	6.44344	-0.07195	-0.00201	6.43711	-0.07828	-0.00834
14	6.44718	-0.05363	-0.00150	6.44247	-0.05835	-0.00622
15	6.44453	-0.14722	-0.00412	6.43158	-0.16017	-0.01707
16	6.44281	-0.11995	-0.00336	6.43226	-0.13050	-0.01391
17	6.44108	-0.13430	-0.00376	6.42926	-0.14612	-0.01557
18	6.48498	-0.09080	-0.00254	6.47700	-0.09878	-0.01053
19	6.42857	-0.13188	-0.00369	6.41697	-0.14348	-0.01529
20	6.43095	-0.11644	-0.00326	6.42070	-0.12668	-0.01350
21	6.42797	-0.12627	-0.00353	6.41686	-0.13738	-0.01464
22	6.41455	-0.15239	-0.00426	6.40114	-0.16580	-0.01767
23	6.41988	-0.16745	-0.00469	6.40515	-0.18219	-0.01942
24	6.41565	-0.14583	-0.00408	6.40282	-0.15866	-0.01691
25	6.43277	-0.12213	-0.00342	6.42202	-0.13287	-0.01416
26	6.44565	-0.06994	-0.00196	6.43949	-0.07610	-0.00811
27	5.22193	-0.07376	-0.02164	5.22887	-0.06683	-0.01470
28	5.21952	-0.08160	-0.02394	5.22720	-0.07393	-0.01626
29	5.24606	-0.10417	-0.03056	5.25585	-0.09438	-0.02076
30	5.26186	-0.16126	-0.04730	5.27702	-0.14610	-0.03214
31	5.25324	-0.12654	-0.03712	5.26513	-0.11465	-0.02522
32	5.23070	-0.07926	-0.02325	5.23815	-0.07180	-0.01580
33	5.24047	-0.07454	-0.02187	5.24747	-0.06754	-0.01486
34	5.21336	-0.04661	-0.01367	5.21774	-0.04223	-0.00929
35	5.20855	-0.03230	-0.00947	5.21159	-0.02926	-0.00644
36	5.15608	-0.35577	-0.10436	5.18953	-0.32232	-0.07092
37	5.13552	-0.38416	-0.11269	5.17164	-0.34805	-0.07658
38	5.22788	-0.23766	-0.06971	5.25022	-0.21532	-0.04737
39	5.24740	-0.20052	-0.05882	5.26625	-0.18167	-0.03997
40	5.25843	-0.20368	-0.05975	5.27757	-0.18453	-0.04060
41	5.22587	-0.23474	-0.06886	5.24794	-0.21267	-0.04679
42	5.21701	-0.25666	-0.07529	5.24114	-0.23254	-0.05116
43	5.22457	-0.23337	-0.06846	5.24651	-0.21143	-0.04652
44	10.55297	-1.66669	-0.32064	10.57033	-1.64933	-0.30328
45	11.51508	-1.36229	-0.26208	11.52926	-1.34810	-0.24789
46	11.92183	-0.96465	-0.18558	11.93188	-0.95461	-0.17554
47	12.21487	-0.29251	-0.05627	12.21792	-0.28946	-0.05323
48	12.23714	-0.16843	-0.03240	12.23889	-0.16667	-0.03065
49	12.18007	-0.33385	-0.06423	12.18354	-0.33037	-0.06075
50	10.63282	-2.30932	-0.44427	10.65687	-2.28528	-0.42022
51	12.38310	-0.23613	-0.04543	12.38556	-0.23367	-0.04297
52	12.16833	-0.40464	-0.07784	12.17255	-0.40043	-0.07363
53	11.90126	-0.99466	-0.19135	11.91161	-0.98431	-0.18100
54	12.33321	-0.29470	-0.05670	12.33628	-0.29163	-0.05363
55	12.12267	-0.36376	-0.06998	12.12645	-0.35997	-0.06619
56	12.23033	-0.15140	-0.02913	12.23190	-0.14983	-0.02755
57	12.02822	-0.61849	-0.11899	12.03466	-0.61205	-0.11255
58	12.23655	-0.59858	-0.11516	12.24279	-0.59235	-0.10892
59	12.12934	-0.39367	-0.07574	12.13344	-0.38958	-0.07164
60	12.32351	-0.14337	-0.02758	12.32500	-0.14187	-0.02609
61	12.31949	-0.06608	-0.01271	12.32018	-0.06539	-0.01202
62	12.53809	-0.14795	-0.02846	12.53963	-0.14641	-0.02692
63	2.42892	0.05318	-0.01715	2.42273	0.04699	-0.02334
64	2.42952	0.05364	-0.01730	2.42328	0.04740	-0.02354
65	2.42716	0.05348	-0.01725	2.42094	0.04726	-0.02347
66	2.41168	0.04594	-0.01482	2.40634	0.04060	-0.02016
67	2.45048	0.06677	-0.02153	2.44271	0.05901	-0.02930
68	2.45869	0.07196	-0.02321	2.45031	0.06359	-0.03158
69	2.47843	0.08373	-0.02700	2.46869	0.07399	-0.03674
70	2.40554	0.04092	-0.01320	2.40078	0.03616	-0.01796
71	2.40670	0.04100	-0.01322	2.40193	0.03623	-0.01799
72	2.42088	0.04959	-0.01599	2.41511	0.04382	-0.02176
73	2.42029	0.04848	-0.01563	2.41466	0.04284	-0.02127
74	2.40224	0.03739	-0.01206	2.39789	0.03304	-0.01641
75	2.39688	0.03458	-0.01115	2.39285	0.03056	-0.01517
76	2.39698	0.03279	-0.01057	2.39317	0.02897	-0.01439

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.48 The Elasticities with respect to Employment Rates from Model 2 of Group 2 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.20196	0.00603	0.00017	-0.20143	0.00656	0.00070
2	-0.20188	0.00557	0.00016	-0.20139	0.00606	0.00065
3	-0.20281	0.00561	0.00016	-0.20232	0.00610	0.00065
4	-0.20190	0.00547	0.00015	-0.20142	0.00595	0.00063
5	-0.20156	0.00494	0.00014	-0.20112	0.00537	0.00057
6	-0.20041	0.00450	0.00013	-0.20002	0.00489	0.00052
7	-0.20431	0.00347	0.00010	-0.20401	0.00378	0.00040
8	-0.20252	0.00386	0.00011	-0.20218	0.00419	0.00045
9	-0.20453	0.00311	0.00009	-0.20426	0.00338	0.00036
10	-0.20357	0.00432	0.00012	-0.20319	0.00470	0.00050
11	-0.20429	0.00433	0.00012	-0.20391	0.00471	0.00050
12	-0.20431	0.00307	0.00009	-0.20404	0.00334	0.00036
13	-0.20626	0.00230	0.00006	-0.20606	0.00251	0.00027
14	-0.20689	0.00172	0.00005	-0.20674	0.00187	0.00020
15	-0.20207	0.00462	0.00013	-0.20167	0.00502	0.00054
16	-0.20344	0.00379	0.00011	-0.20311	0.00412	0.00044
17	-0.20275	0.00423	0.00012	-0.20238	0.00460	0.00049
18	-0.20115	0.00282	0.00008	-0.20090	0.00306	0.00033
19	-0.20396	0.00418	0.00012	-0.20359	0.00455	0.00049
20	-0.20464	0.00371	0.00010	-0.20431	0.00403	0.00043
21	-0.20420	0.00401	0.00011	-0.20384	0.00436	0.00047
22	-0.20392	0.00484	0.00014	-0.20349	0.00527	0.00056
23	-0.20269	0.00529	0.00015	-0.20222	0.00575	0.00061
24	-0.20419	0.00464	0.00013	-0.20378	0.00505	0.00054
25	-0.20411	0.00388	0.00011	-0.20377	0.00422	0.00045
26	-0.20663	0.00224	0.00006	-0.20643	0.00244	0.00026
27	-0.16375	0.00231	0.00068	-0.16397	0.00210	0.00046
28	-0.16444	0.00257	0.00075	-0.16468	0.00233	0.00051
29	-0.16244	0.00323	0.00095	-0.16275	0.00292	0.00064
30	-0.16049	0.00492	0.00144	-0.16095	0.00446	0.00098
31	-0.16184	0.00390	0.00114	-0.16221	0.00353	0.00078
32	-0.16396	0.00248	0.00073	-0.16420	0.00225	0.00050
33	-0.16278	0.00232	0.00068	-0.16300	0.00210	0.00046
34	-0.16522	0.00148	0.00043	-0.16535	0.00134	0.00029
35	-0.16424	0.00102	0.00030	-0.16433	0.00092	0.00020
36	-0.15623	0.01078	0.00316	-0.15724	0.00977	0.00215
37	-0.15521	0.01161	0.00341	-0.15631	0.01052	0.00231
38	-0.15921	0.00724	0.00212	-0.15989	0.00656	0.00144
39	-0.15984	0.00611	0.00179	-0.16042	0.00553	0.00122
40	-0.15921	0.00617	0.00181	-0.15979	0.00559	0.00123
41	-0.15942	0.00716	0.00210	-0.16009	0.00649	0.00143
42	-0.15882	0.00781	0.00229	-0.15955	0.00708	0.00156
43	-0.15950	0.00712	0.00209	-0.16017	0.00645	0.00142
44	-0.33306	0.05260	0.01012	-0.33361	0.05205	0.00957
45	-0.34271	0.04054	0.00780	-0.34314	0.04012	0.00738
46	-0.35606	0.02881	0.00554	-0.35636	0.02851	0.00524
47	-0.37974	0.00909	0.00175	-0.37984	0.00900	0.00165
48	-0.38319	0.00527	0.00101	-0.38325	0.00522	0.00096
49	-0.37895	0.01039	0.00200	-0.37905	0.01028	0.00189
50	-0.31901	0.06929	0.01333	-0.31973	0.06856	0.01261
51	-0.37571	0.00716	0.00138	-0.37579	0.00709	0.00130
52	-0.37607	0.01251	0.00241	-0.37620	0.01238	0.00228
53	-0.35496	0.02967	0.00571	-0.35527	0.02936	0.00540
54	-0.37474	0.00895	0.00172	-0.37483	0.00886	0.00163
55	-0.37954	0.01139	0.00219	-0.37966	0.01127	0.00207
56	-0.38362	0.00475	0.00091	-0.38367	0.00470	0.00086
57	-0.37045	0.01905	0.00366	-0.37065	0.01885	0.00347
58	-0.35778	0.01750	0.00337	-0.35797	0.01732	0.00318
59	-0.37797	0.01227	0.00236	-0.37810	0.01214	0.00223
60	-0.38004	0.00442	0.00085	-0.38009	0.00438	0.00080
61	-0.38001	0.00204	0.00039	-0.38004	0.00202	0.00037
62	-0.38572	0.00455	0.00088	-0.38577	0.00450	0.00083
63	-0.07606	-0.00167	0.00054	-0.07587	-0.00147	0.00073
64	-0.07572	-0.00167	0.00054	-0.07552	-0.00148	0.00073
65	-0.07589	-0.00167	0.00054	-0.07570	-0.00148	0.00073
66	-0.07575	-0.00144	0.00047	-0.07559	-0.00128	0.00063
67	-0.07672	-0.00209	0.00067	-0.07648	-0.00185	0.00092
68	-0.07703	-0.00225	0.00073	-0.07676	-0.00199	0.00099
69	-0.07733	-0.00261	0.00084	-0.07702	-0.00231	0.00115
70	-0.07572	-0.00129	0.00042	-0.07557	-0.00114	0.00057
71	-0.07596	-0.00129	0.00042	-0.07581	-0.00114	0.00057
72	-0.07641	-0.00157	0.00050	-0.07623	-0.00138	0.00069
73	-0.07592	-0.00152	0.00049	-0.07574	-0.00134	0.00067
74	-0.07475	-0.00116	0.00038	-0.07461	-0.00103	0.00051
75	-0.07486	-0.00108	0.00035	-0.07474	-0.00095	0.00047
76	-0.07379	-0.00101	0.00033	-0.07367	-0.00089	0.00044

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.49 The Elasticities with respect to Distances from Model 2 of Group 2 in 2012

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.72173	0.02155	0.00060	-0.71983	0.02345	0.00250
2	-0.79829	0.02203	0.00062	-0.79635	0.02396	0.00255
3	-0.77937	0.02156	0.00060	-0.77747	0.02345	0.00250
4	-0.81285	0.02202	0.00062	-0.81091	0.02396	0.00255
5	-0.91099	0.02233	0.00062	-0.90902	0.02429	0.00259
6	-1.01257	0.02271	0.00064	-1.01057	0.02471	0.00263
7	-1.21666	0.02068	0.00058	-1.21484	0.02250	0.00240
8	-1.13249	0.02156	0.00060	-1.13059	0.02346	0.00250
9	-1.32024	0.02008	0.00056	-1.31848	0.02184	0.00233
10	-1.01672	0.02156	0.00060	-1.01482	0.02346	0.00250
11	-1.01244	0.02145	0.00060	-1.01055	0.02334	0.00249
12	-1.33922	0.02012	0.00056	-1.33744	0.02189	0.00233
13	-1.60187	0.01789	0.00050	-1.60030	0.01946	0.00207
14	-1.88115	0.01565	0.00044	-1.87977	0.01702	0.00181
15	-0.97149	0.02219	0.00062	-0.96954	0.02415	0.00257
16	-1.14334	0.02129	0.00060	-1.14147	0.02316	0.00247
17	-1.04461	0.02178	0.00061	-1.04269	0.02370	0.00253
18	-1.44115	0.02018	0.00056	-1.43938	0.02195	0.00234
19	-1.04477	0.02143	0.00060	-1.04288	0.02332	0.00249
20	-1.15459	0.02090	0.00058	-1.15275	0.02274	0.00242
21	-1.08124	0.02124	0.00059	-1.07938	0.02311	0.00246
22	-0.90695	0.02155	0.00060	-0.90506	0.02344	0.00250
23	-0.83671	0.02182	0.00061	-0.83479	0.02374	0.00253
24	-0.94467	0.02147	0.00060	-0.94278	0.02336	0.00249
25	-1.11560	0.02118	0.00059	-1.11374	0.02304	0.00246
26	-1.63026	0.01769	0.00050	-1.62871	0.01925	0.00205
27	-2.47792	0.03500	0.01027	-2.48121	0.03171	0.00698
28	-2.38028	0.03721	0.01092	-2.38377	0.03371	0.00742
29	-2.18946	0.04348	0.01275	-2.19355	0.03939	0.00867
30	-1.82667	0.05598	0.01642	-1.83193	0.05072	0.01116
31	-2.02460	0.04877	0.01431	-2.02918	0.04418	0.00972
32	-2.42099	0.03668	0.01076	-2.42444	0.03323	0.00731
33	-2.49087	0.03543	0.01039	-2.49420	0.03210	0.00706
34	-2.90288	0.02595	0.00761	-2.90532	0.02351	0.00517
35	-3.25410	0.02018	0.00592	-3.25599	0.01828	0.00402
36	-1.11761	0.07711	0.02262	-1.12486	0.06987	0.01537
37	-1.04891	0.07846	0.02302	-1.05629	0.07109	0.01564
38	-1.47683	0.06714	0.01969	-1.48314	0.06083	0.01338
39	-1.63122	0.06233	0.01828	-1.63708	0.05647	0.01242
40	-1.63206	0.06322	0.01854	-1.63801	0.05727	0.01260
41	-1.48373	0.06665	0.01955	-1.48999	0.06038	0.01328
42	-1.40725	0.06923	0.02031	-1.41376	0.06272	0.01380
43	-1.48661	0.06640	0.01948	-1.49285	0.06016	0.01324

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-2.72499	0.43037	0.08280	-2.72947	0.42589	0.07831
45	-3.63905	0.43052	0.08282	-3.64353	0.42603	0.07834
46	-4.09184	0.33109	0.06370	-4.09529	0.32764	0.06025
47	-5.08160	0.12169	0.02341	-5.08286	0.12042	0.02214
48	-5.56899	0.07665	0.01475	-5.56979	0.07585	0.01395
49	-4.94219	0.13546	0.02606	-4.94360	0.13405	0.02465
50	-2.96301	0.64353	0.12380	-2.96971	0.63683	0.11710
51	-5.44036	0.10374	0.01996	-5.44144	0.10266	0.01888
52	-4.79056	0.15930	0.03065	-4.79222	0.15764	0.02899
53	-4.06313	0.33958	0.06533	-4.06667	0.33605	0.06179
54	-5.20666	0.12441	0.02393	-5.20796	0.12312	0.02264
55	-4.81605	0.14451	0.02780	-4.81755	0.14301	0.02630
56	-5.65653	0.07002	0.01347	-5.65726	0.06929	0.01274
57	-4.37906	0.22517	0.04332	-4.38141	0.22283	0.04097
58	-4.62799	0.22639	0.04355	-4.63035	0.22403	0.04120
59	-4.76701	0.15472	0.02977	-4.76862	0.15311	0.02815
60	-5.80942	0.06758	0.01300	-5.81012	0.06688	0.01230
61	-6.53113	0.03503	0.00674	-6.53150	0.03466	0.00637
62	-6.00546	0.07086	0.01363	-6.00620	0.07012	0.01289
63	-1.24445	-0.02725	0.00879	-1.24128	-0.02408	0.01196
64	-1.23645	-0.02730	0.00880	-1.23327	-0.02412	0.01198
65	-1.23594	-0.02723	0.00878	-1.23277	-0.02407	0.01195
66	-1.37554	-0.02620	0.00845	-1.37249	-0.02316	0.01150
67	-1.02864	-0.02803	0.00904	-1.02538	-0.02477	0.01230
68	-0.95802	-0.02804	0.00904	-0.95475	-0.02478	0.01230
69	-0.81752	-0.02762	0.00891	-0.81430	-0.02440	0.01212
70	-1.48874	-0.02532	0.00817	-1.48579	-0.02238	0.01111
71	-1.48794	-0.02535	0.00818	-1.48499	-0.02240	0.01113
72	-1.30701	-0.02677	0.00863	-1.30390	-0.02366	0.01175
73	-1.33087	-0.02666	0.00860	-1.32777	-0.02355	0.01170
74	-1.57936	-0.02458	0.00793	-1.57650	-0.02172	0.01079
75	-1.65291	-0.02385	0.00769	-1.65014	-0.02107	0.01046
76	-1.70938	-0.02338	0.00754	-1.70665	-0.02066	0.01026

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

F.2 Additional Tables for Section 7.2

This appendix presents the tables of elasticities calculated from model 2 and 3 in 2002, 2004 – 2008 and 2011 - 2012. These elasticities report a change in the probability of migrating to a province for group 3 migrants who are currently working in both agricultural and non-agricultural sectors with respect to a change in a determinant of labor migration.

Table F.50 The Elasticities with respect to Wages from Model 2 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.78923	0.04529	-0.06831	0.78812	0.04418	-0.06942
2	0.78700	0.04352	-0.06564	0.78593	0.04246	-0.06671
3	0.78855	0.04466	-0.06736	0.78746	0.04356	-0.06845
4	0.78877	0.04470	-0.06742	0.78768	0.04361	-0.06852
5	0.78748	0.04410	-0.06652	0.78640	0.04302	-0.06760
6	0.78024	0.04146	-0.06254	0.77922	0.04044	-0.06355
7	0.78003	0.03866	-0.05831	0.77909	0.03771	-0.05926
8	0.77814	0.03935	-0.05935	0.77718	0.03839	-0.06032
9	0.77851	0.03640	-0.05491	0.77762	0.03551	-0.05580
10	0.78422	0.04144	-0.06250	0.78320	0.04042	-0.06351
11	0.78372	0.03984	-0.06009	0.78274	0.03886	-0.06107
12	0.77554	0.03430	-0.05173	0.77470	0.03345	-0.05257
13	0.77211	0.03078	-0.04642	0.77135	0.03002	-0.04718
14	0.76780	0.02709	-0.04085	0.76714	0.02642	-0.04152
15	0.78297	0.04042	-0.06096	0.78198	0.03943	-0.06196
16	0.78168	0.03861	-0.05823	0.78073	0.03766	-0.05918
17	0.78439	0.04033	-0.06083	0.78340	0.03934	-0.06182
18	0.77212	0.03303	-0.04982	0.77131	0.03222	-0.05063
19	0.78142	0.03847	-0.05802	0.78048	0.03752	-0.05896
20	0.78074	0.03695	-0.05572	0.77983	0.03604	-0.05663
21	0.78496	0.04061	-0.06125	0.78396	0.03961	-0.06225
22	0.78541	0.04143	-0.06248	0.78439	0.04041	-0.06350
23	0.78695	0.04281	-0.06456	0.78590	0.04175	-0.06561
24	0.78477	0.04057	-0.06119	0.78377	0.03957	-0.06218
25	0.78066	0.03720	-0.05611	0.77975	0.03629	-0.05702
26	0.77092	0.02896	-0.04367	0.77021	0.02825	-0.04438
27	1.33005	0.00728	-0.04356	1.36347	0.04070	-0.01013
28	1.33838	0.00823	-0.04928	1.37620	0.04604	-0.01146
29	1.33526	0.00998	-0.05977	1.38113	0.05585	-0.01391
30	1.34670	0.01503	-0.09001	1.41576	0.08410	-0.02094
31	1.34012	0.01203	-0.07204	1.39540	0.06731	-0.01676
32	1.32877	0.00797	-0.04770	1.36537	0.04457	-0.01110
33	1.32437	0.00716	-0.04289	1.35728	0.04007	-0.00998
34	1.31374	0.00461	-0.02762	1.33493	0.02580	-0.00643
35	1.31339	0.00326	-0.01952	1.32837	0.01824	-0.00454
36	1.36368	0.03333	-0.19956	1.51682	0.18647	-0.04643
37	1.37329	0.03649	-0.21848	1.54095	0.20414	-0.05083
38	1.35871	0.02260	-0.13532	1.46254	0.12644	-0.03148
39	1.33967	0.01835	-0.10989	1.42399	0.10268	-0.02557
40	1.35194	0.01878	-0.11244	1.43821	0.10506	-0.02616
41	1.35793	0.02217	-0.13272	1.45977	0.12401	-0.03088
42	1.35628	0.02429	-0.14545	1.46789	0.13591	-0.03384
43	1.35911	0.02250	-0.13468	1.46246	0.12585	-0.03134
44	3.82146	-0.36580	-0.0000288	3.82149	-0.36577	-0.000001327
45	4.06832	-0.08793	-0.0000069	4.06833	-0.08792	-0.000000319
46	4.12683	-0.06028	-0.0000047	4.12684	-0.06027	-0.000000219
47	4.14793	-0.01865	-0.0000015	4.14793	-0.01865	-0.000000068
48	4.15583	-0.00949	-0.0000007	4.15583	-0.00949	-0.000000034
49	4.13697	-0.02028	-0.0000016	4.13697	-0.02028	-0.000000074
50	3.99125	-0.18090	-0.0000142	3.99127	-0.18088	-0.000000656
51	4.14657	-0.01033	-0.0000008	4.14657	-0.01033	-0.000000037
52	4.16875	-0.02457	-0.0000019	4.16876	-0.02457	-0.000000089
53	4.13908	-0.05484	-0.0000043	4.13908	-0.05484	-0.000000199
54	4.14369	-0.01306	-0.0000010	4.14369	-0.01306	-0.000000047
55	4.14134	-0.02380	-0.0000019	4.14134	-0.02380	-0.000000086
56	4.16225	-0.00782	-0.0000006	4.16225	-0.00782	-0.000000028
57	4.14546	-0.04179	-0.0000033	4.14546	-0.04179	-0.000000152
58	4.12949	-0.02739	-0.0000022	4.12949	-0.02738	-0.000000099
59	4.14298	-0.02541	-0.0000020	4.14298	-0.02541	-0.000000092
60	4.15030	-0.00605	-0.0000005	4.15030	-0.00605	-0.000000022
61	4.15432	-0.00234	-0.0000002	4.15432	-0.00234	-0.000000008
62	4.15697	-0.00622	-0.0000005	4.15697	-0.00622	-0.000000023
63	1.09956	0.16513	-0.00711	1.00731	0.07288	-0.09936
64	1.09497	0.16392	-0.00706	1.00340	0.07235	-0.09863
65	1.09922	0.16370	-0.00705	1.00778	0.07225	-0.09849
66	1.06237	0.12769	-0.00550	0.99104	0.05636	-0.07683
67	1.16642	0.23293	-0.01003	1.03630	0.10281	-0.14015
68	1.18860	0.25930	-0.01116	1.04374	0.11445	-0.15602
69	1.25591	0.33021	-0.01421	1.07144	0.14574	-0.19868
70	1.04156	0.10693	-0.00460	0.98183	0.04719	-0.06434
71	1.04281	0.10764	-0.00463	0.98268	0.04751	-0.06476
72	1.07903	0.14610	-0.00629	0.99741	0.06448	-0.08791
73	1.07575	0.14083	-0.00606	0.99707	0.06216	-0.08473
74	1.02235	0.09083	-0.00391	0.97160	0.04009	-0.05465
75	1.01435	0.08094	-0.00348	0.96913	0.03573	-0.04870
76	1.00702	0.07411	-0.00319	0.96562	0.03271	-0.04459

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.51 The Elasticities with respect to Employment Rates from Model 2 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.45200	0.02594	-0.03912	0.45136	0.02530	-0.03976
2	0.45034	0.02491	-0.03756	0.44973	0.02429	-0.03818
3	0.45157	0.02557	-0.03857	0.45095	0.02495	-0.03920
4	0.45184	0.02561	-0.03862	0.45121	0.02498	-0.03925
5	0.45018	0.02521	-0.03803	0.44956	0.02459	-0.03865
6	0.44453	0.02362	-0.03563	0.44395	0.02304	-0.03621
7	0.44613	0.02211	-0.03335	0.44558	0.02157	-0.03389
8	0.44395	0.02245	-0.03386	0.44340	0.02190	-0.03441
9	0.44620	0.02086	-0.03147	0.44569	0.02035	-0.03198
10	0.44858	0.02370	-0.03575	0.44800	0.02312	-0.03633
11	0.45037	0.02289	-0.03453	0.44981	0.02233	-0.03509
12	0.44559	0.01971	-0.02972	0.44511	0.01922	-0.03020
13	0.44540	0.01776	-0.02678	0.44497	0.01732	-0.02722
14	0.44379	0.01566	-0.02361	0.44340	0.01527	-0.02400
15	0.44814	0.02313	-0.03489	0.44757	0.02257	-0.03546
16	0.44814	0.02213	-0.03338	0.44760	0.02159	-0.03393
17	0.45023	0.02315	-0.03491	0.44966	0.02258	-0.03548
18	0.44264	0.01894	-0.02856	0.44217	0.01847	-0.02903
19	0.44808	0.02206	-0.03327	0.44754	0.02152	-0.03381
20	0.44895	0.02125	-0.03204	0.44843	0.02072	-0.03256
21	0.45171	0.02337	-0.03525	0.45114	0.02280	-0.03582
22	0.45075	0.02378	-0.03586	0.45016	0.02319	-0.03644
23	0.45247	0.02461	-0.03712	0.45187	0.02401	-0.03772
24	0.45139	0.02333	-0.03519	0.45082	0.02276	-0.03577
25	0.44848	0.02137	-0.03223	0.44796	0.02085	-0.03276
26	0.44478	0.01671	-0.02520	0.44437	0.01630	-0.02561
27	0.77418	0.00424	-0.02536	0.79363	0.02369	-0.00590
28	0.77886	0.00479	-0.02868	0.80087	0.02679	-0.00667
29	0.77426	0.00579	-0.03466	0.80086	0.03238	-0.00806
30	0.77708	0.00867	-0.05194	0.81693	0.04853	-0.01208
31	0.77515	0.00696	-0.04167	0.80712	0.03893	-0.00969
32	0.77207	0.00463	-0.02771	0.79334	0.02590	-0.00645
33	0.77000	0.00416	-0.02493	0.78914	0.02330	-0.00580
34	0.77214	0.00271	-0.01623	0.78460	0.01517	-0.00378
35	0.76860	0.00191	-0.01142	0.77737	0.01067	-0.00266
36	0.79003	0.01931	-0.11561	0.87875	0.10803	-0.02690
37	0.78877	0.02096	-0.12549	0.88507	0.11725	-0.02920
38	0.78313	0.01303	-0.07799	0.84298	0.07288	-0.01815
39	0.77002	0.01055	-0.06316	0.81849	0.05902	-0.01470
40	0.77816	0.01081	-0.06472	0.82782	0.06047	-0.01506
41	0.78396	0.01280	-0.07662	0.84276	0.07159	-0.01783
42	0.78653	0.01409	-0.08435	0.85126	0.07882	-0.01963
43	0.78511	0.01300	-0.07780	0.84482	0.07270	-0.01810
44	2.21292	-0.21182	-0.00002	2.21293	-0.21181	-0.000000768
45	2.32472	-0.05024	0.00000	2.32472	-0.05024	-0.000000182
46	2.42921	-0.03548	0.00000	2.42921	-0.03548	-0.000000129
47	2.42954	-0.01093	0.00000	2.42954	-0.01093	-0.000000040
48	2.44045	-0.00558	0.00000	2.44045	-0.00557	-0.000000020
49	2.40301	-0.01178	0.00000	2.40301	-0.01178	-0.000000043
50	2.34309	-0.10620	-0.00001	2.34310	-0.10619	-0.000000385
51	2.41157	-0.00601	0.00000	2.41158	-0.00601	-0.000000022
52	2.45050	-0.01444	0.00000	2.45051	-0.01444	-0.000000052
53	2.41757	-0.03203	0.00000	2.41757	-0.03203	-0.000000116
54	2.40575	-0.00758	0.00000	2.40575	-0.00758	-0.000000027
55	2.45739	-0.01412	0.00000	2.45739	-0.01412	-0.000000051
56	2.44914	-0.00460	0.00000	2.44914	-0.00460	-0.000000017
57	2.42336	-0.02443	0.00000	2.42336	-0.02443	-0.000000089
58	2.39114	-0.01586	0.00000	2.39114	-0.01586	-0.000000058
59	2.42535	-0.01487	0.00000	2.42535	-0.01487	-0.000000054
60	2.40679	-0.00351	0.00000	2.40679	-0.00351	-0.000000013
61	2.42797	-0.00137	0.00000	2.42797	-0.00137	-0.000000005
62	2.44678	-0.00366	0.00000	2.44678	-0.00366	-0.000000013
63	0.64089	0.09625	-0.00414	0.58712	0.04248	-0.05791
64	0.64147	0.09603	-0.00413	0.58783	0.04238	-0.05778
65	0.63966	0.09526	-0.00410	0.58644	0.04204	-0.05732
66	0.61925	0.07443	-0.00320	0.57767	0.03285	-0.04478
67	0.68239	0.13627	-0.00587	0.60627	0.06014	-0.08199
68	0.70067	0.15286	-0.00658	0.61528	0.06746	-0.09197
69	0.74147	0.19495	-0.00839	0.63256	0.08604	-0.11730
70	0.60694	0.06231	-0.00268	0.57213	0.02750	-0.03749
71	0.60813	0.06277	-0.00270	0.57307	0.02770	-0.03777
72	0.63390	0.08583	-0.00369	0.58595	0.03788	-0.05164
73	0.62760	0.08216	-0.00354	0.58170	0.03626	-0.04943
74	0.59261	0.05265	-0.00227	0.56320	0.02324	-0.03168
75	0.59166	0.04721	-0.00203	0.56529	0.02084	-0.02841
76	0.58750	0.04323	-0.00186	0.56335	0.01908	-0.02601

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.52 The Elasticities with respect to Distances from Model 2 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.28824	-0.01654	0.02495	-0.28783	-0.01614	0.02535
2	-0.32794	-0.01814	0.02735	-0.32750	-0.01769	0.02780
3	-0.30273	-0.01715	0.02586	-0.30231	-0.01672	0.02628
4	-0.30239	-0.01714	0.02585	-0.30197	-0.01672	0.02627
5	-0.31340	-0.01755	0.02647	-0.31297	-0.01712	0.02690
6	-0.36200	-0.01924	0.02901	-0.36153	-0.01876	0.02949
7	-0.44402	-0.02201	0.03319	-0.44348	-0.02147	0.03373
8	-0.41667	-0.02107	0.03178	-0.41615	-0.02056	0.03230
9	-0.50895	-0.02380	0.03589	-0.50837	-0.02321	0.03648
10	-0.37666	-0.01990	0.03002	-0.37617	-0.01941	0.03051
11	-0.42271	-0.02149	0.03241	-0.42219	-0.02096	0.03294
12	-0.56842	-0.02514	0.03791	-0.56781	-0.02452	0.03853
13	-0.68058	-0.02713	0.04092	-0.67991	-0.02646	0.04159
14	-0.80884	-0.02853	0.04304	-0.80814	-0.02783	0.04374
15	-0.40195	-0.02075	0.03130	-0.40144	-0.02024	0.03181
16	-0.45159	-0.02230	0.03364	-0.45104	-0.02176	0.03419
17	-0.41015	-0.02109	0.03181	-0.40963	-0.02057	0.03232
18	-0.59925	-0.02564	0.03867	-0.59862	-0.02501	0.03929
19	-0.45509	-0.02240	0.03379	-0.45454	-0.02185	0.03434
20	-0.50035	-0.02368	0.03571	-0.49977	-0.02310	0.03629
21	-0.40501	-0.02095	0.03160	-0.40449	-0.02044	0.03212
22	-0.38202	-0.02015	0.03039	-0.38153	-0.01966	0.03089
23	-0.34946	-0.01901	0.02867	-0.34899	-0.01854	0.02914
24	-0.40545	-0.02096	0.03161	-0.40493	-0.02044	0.03213
25	-0.49186	-0.02344	0.03535	-0.49128	-0.02286	0.03593
26	-0.74440	-0.02796	0.04217	-0.74371	-0.02727	0.04286
27	-2.53887	-0.01389	0.08315	-2.60268	-0.07770	0.01935
28	-2.43375	-0.01497	0.08961	-2.50251	-0.08373	0.02085
29	-2.22820	-0.01666	0.09974	-2.30474	-0.09320	0.02321
30	-1.83380	-0.02047	0.12256	-1.92785	-0.11452	0.02851
31	-2.04789	-0.01839	0.11009	-2.13236	-0.10286	0.02561
32	-2.44296	-0.01465	0.08769	-2.51025	-0.08194	0.02040
33	-2.54045	-0.01374	0.08227	-2.60357	-0.07687	0.01914
34	-2.96661	-0.01042	0.06236	-3.01447	-0.05827	0.01451
35	-3.31033	-0.00822	0.04921	-3.34808	-0.04598	0.01145
36	-1.04258	-0.02548	0.15257	-1.15966	-0.14256	0.03550
37	-0.96042	-0.02552	0.15280	-1.07767	-0.14277	0.03555
38	-1.43898	-0.02394	0.14331	-1.54896	-0.13391	0.03334
39	-1.60869	-0.02204	0.13196	-1.70994	-0.12330	0.03070
40	-1.61483	-0.02243	0.13430	-1.71788	-0.12548	0.03125
41	-1.45870	-0.02381	0.14257	-1.56810	-0.13321	0.03317
42	-1.36235	-0.02440	0.14611	-1.47446	-0.13652	0.03399
43	-1.44660	-0.02394	0.14335	-1.55660	-0.13395	0.03335

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-3.38213	0.32374	0.0000255	-3.38215	0.32372	0.000001174
45	-4.93654	0.10669	0.0000084	-4.93654	0.10668	0.000000387
46	-5.46890	0.07988	0.0000063	-5.46890	0.07987	0.000000290
47	-6.64213	0.02987	0.0000023	-6.64213	0.02987	0.000000108
48	-7.33459	0.01676	0.0000013	-7.33459	0.01676	0.000000061
49	-6.51925	0.03196	0.0000025	-6.51926	0.03195	0.000000116
50	-4.22437	0.19146	0.0000151	-4.22438	0.19145	0.000000694
51	-7.21006	0.01796	0.0000014	-7.21006	0.01796	0.000000065
52	-6.41625	0.03782	0.0000030	-6.41625	0.03782	0.000000137
53	-5.56292	0.07371	0.0000058	-5.56292	0.07370	0.000000267
54	-6.96744	0.02195	0.0000017	-6.96744	0.02195	0.000000080
55	-6.42054	0.03691	0.0000029	-6.42055	0.03690	0.000000134
56	-7.54475	0.01418	0.0000011	-7.54475	0.01417	0.000000051
57	-5.83939	0.05887	0.0000046	-5.83940	0.05887	0.000000214
58	-6.20135	0.04113	0.0000032	-6.20135	0.04112	0.000000149
59	-6.32616	0.03880	0.0000031	-6.32616	0.03879	0.000000141
60	-7.74318	0.01129	0.0000009	-7.74318	0.01129	0.000000041
61	-8.71820	0.00492	0.0000004	-8.71820	0.00492	0.000000018
62	-7.76418	0.01162	0.0000009	-7.76418	0.01162	0.000000042
63	-2.31770	-0.34808	0.01498	-2.12325	-0.15363	0.20943
64	-2.31781	-0.34698	0.01493	-2.12398	-0.15314	0.20877
65	-2.32695	-0.34653	0.01492	-2.13336	-0.15294	0.20850
66	-2.53181	-0.30430	0.01310	-2.36181	-0.13431	0.18309
67	-2.03072	-0.40553	0.01746	-1.80417	-0.17898	0.24400
68	-1.93252	-0.42160	0.01815	-1.69700	-0.18608	0.25367
69	-1.71004	-0.44961	0.01935	-1.45887	-0.19844	0.27053
70	-2.67974	-0.27511	0.01184	-2.52605	-0.12142	0.16553
71	-2.67609	-0.27623	0.01189	-2.52178	-0.12192	0.16620
72	-2.42008	-0.32769	0.01410	-2.23702	-0.14463	0.19716
73	-2.45161	-0.32094	0.01381	-2.27232	-0.14165	0.19311
74	-2.80600	-0.24930	0.01073	-2.66673	-0.11003	0.15000
75	-2.91275	-0.23244	0.01000	-2.78290	-0.10259	0.13985
76	-2.98721	-0.21983	0.00946	-2.86440	-0.09702	0.13227

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.53 The Elasticities with respect to Wages from Model 3 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	2.93228	0.05500	-0.21649	2.98032	0.10305	-0.16844
2	2.93055	0.05509	-0.21682	2.97867	0.10321	-0.16870
3	2.96682	0.08973	-0.35317	3.04520	0.16811	-0.27479
4	2.94909	0.07131	-0.28068	3.01137	0.13360	-0.21839
5	2.96924	0.09416	-0.37060	3.05149	0.17641	-0.28836
6	2.93879	0.08149	-0.32075	3.00997	0.15268	-0.24957
7	2.94078	0.07343	-0.28902	3.00492	0.13757	-0.22488
8	2.95050	0.09315	-0.36664	3.03187	0.17452	-0.28528
9	2.95047	0.08028	-0.31599	3.02060	0.15041	-0.24587
10	2.97213	0.09934	-0.39100	3.05890	0.18611	-0.30423
11	2.97107	0.09403	-0.37011	3.05320	0.17617	-0.28797
12	2.94543	0.07858	-0.30930	3.01407	0.14722	-0.24066
13	2.95122	0.08405	-0.33081	3.02464	0.15747	-0.25740
14	2.94103	0.07622	-0.29999	3.00761	0.14280	-0.23342
15	2.96880	0.09689	-0.38136	3.05344	0.18153	-0.29673
16	3.04097	0.16707	-0.65757	3.18690	0.31300	-0.51164
17	2.94981	0.07207	-0.28366	3.01276	0.13502	-0.22071
18	2.92871	0.07021	-0.27635	2.99003	0.13154	-0.21502
19	2.93349	0.06002	-0.23624	2.98591	0.11245	-0.18381
20	2.93559	0.05889	-0.23177	2.98702	0.11032	-0.18033
21	2.93845	0.05961	-0.23461	2.99052	0.11167	-0.18255
22	2.95131	0.07388	-0.29078	3.01584	0.13841	-0.22625
23	2.94708	0.06901	-0.27162	3.00736	0.12929	-0.21134
24	2.92652	0.04824	-0.18988	2.96866	0.09038	-0.14774
25	2.98368	0.10826	-0.42610	3.07824	0.20282	-0.33154
26	2.95122	0.08159	-0.32111	3.02248	0.15285	-0.24985
27	41.89481	-0.32642	-0.03009	41.91186	-0.30937	-0.01304
28	41.86112	-0.59576	-0.05493	41.89224	-0.56464	-0.02381
29	42.26002	-0.04129	-0.00381	42.26217	-0.03913	-0.00165
30	40.26729	-2.23782	-0.20632	40.38419	-2.12093	-0.08942
31	42.27999	-0.11096	-0.01023	42.28579	-0.10517	-0.00443
32	41.50734	-0.65100	-0.06002	41.54134	-0.61700	-0.02601
33	41.99456	-0.04908	-0.00452	41.99712	-0.04651	-0.00196
34	41.78514	-0.00059	-0.00005	41.78517	-0.00055	-0.00002
35	41.81789	0.00000	0.00000	41.81789	0.00000	0.00000
36	39.73773	-2.72546	-0.25127	39.88010	-2.58309	-0.10890
37	39.92829	-2.74080	-0.25269	40.07146	-2.59763	-0.10952
38	42.09944	-0.54744	-0.05047	42.12804	-0.51884	-0.02187
39	42.17427	-0.00043	-0.00004	42.17429	-0.00041	-0.00002
40	41.56206	-0.99071	-0.09134	41.61381	-0.93896	-0.03959
41	22.13831	-20.49747	-1.88976	23.20903	-19.42675	-0.81904
42	41.56602	-0.94924	-0.08751	41.61561	-0.89965	-0.03793
43	42.64547	-0.01760	-0.00162	42.64639	-0.01668	-0.00070

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	3.16256	0.51517	-0.08681	3.24619	0.59881	-0.00318
45	3.02566	0.39788	-0.06705	3.09025	0.46247	-0.00246
46	3.07043	0.42314	-0.07131	3.13912	0.49183	-0.00261
47	2.94489	0.31057	-0.05234	2.99530	0.36099	-0.00192
48	3.28647	0.65295	-0.11003	3.39247	0.75895	-0.00403
49	3.03646	0.40804	-0.06876	3.10270	0.47428	-0.00252
50	3.05048	0.41264	-0.06954	3.11747	0.47963	-0.00255
51	3.02252	0.39433	-0.06645	3.08654	0.45835	-0.00244
52	3.19053	0.53931	-0.09088	3.27808	0.62686	-0.00333
53	3.07414	0.42254	-0.07120	3.14273	0.49114	-0.00261
54	3.26476	0.63666	-0.10729	3.36811	0.74002	-0.00393
55	3.12184	0.48843	-0.08231	3.20113	0.56772	-0.00302
56	3.06920	0.43268	-0.07291	3.13944	0.50292	-0.00267
57	3.19200	0.54462	-0.09178	3.28041	0.63303	-0.00336
58	3.10047	0.47230	-0.07959	3.17715	0.54897	-0.00292
59	3.04761	0.41215	-0.06945	3.11452	0.47906	-0.00255
60	2.98995	0.36210	-0.06102	3.04874	0.42089	-0.00224
61	2.99914	0.37110	-0.06254	3.05939	0.43134	-0.00229
62	3.15195	0.51978	-0.08759	3.23633	0.60416	-0.00321
63	47.27516	-2.52384	-0.02905	46.94233	-2.85667	-0.36188
64	49.59969	-0.01951	-0.00022	49.59711	-0.02209	-0.00280
65	48.62415	-1.23367	-0.01420	48.46146	-1.39636	-0.17689
66	49.81157	-0.00110	-0.00001	49.81142	-0.00124	-0.00016
67	47.21473	-2.53459	-0.02917	46.88048	-2.86884	-0.36342
68	22.93631	-26.58930	-0.30602	19.42984	-30.09577	-3.81249
69	46.24180	-3.09226	-0.03559	45.83401	-3.50005	-0.44338
70	49.79330	-0.01678	-0.00019	49.79109	-0.01899	-0.00241
71	49.83087	-0.00782	-0.00009	49.82983	-0.00886	-0.00112
72	48.71049	-1.00869	-0.01161	48.57747	-1.14171	-0.14463
73	49.78868	-0.03658	-0.00042	49.78386	-0.04140	-0.00524
74	49.64400	0.00000	0.00000	49.64400	0.00000	0.00000
75	49.74274	-0.00178	-0.00002	49.74250	-0.00201	-0.00026
76	49.71850	0.00000	0.00000	49.71850	0.00000	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.54 The Elasticities with respect to Employment Rates from Model 3 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.04517	-0.00085	0.00333	-0.04591	-0.00159	0.00259
2	-0.04510	-0.00085	0.00334	-0.04584	-0.00159	0.00260
3	-0.04570	-0.00138	0.00544	-0.04690	-0.00259	0.00423
4	-0.04544	-0.00110	0.00432	-0.04640	-0.00206	0.00336
5	-0.04565	-0.00145	0.00570	-0.04692	-0.00271	0.00443
6	-0.04503	-0.00125	0.00492	-0.04612	-0.00234	0.00382
7	-0.04524	-0.00113	0.00445	-0.04622	-0.00212	0.00346
8	-0.04528	-0.00143	0.00563	-0.04652	-0.00268	0.00438
9	-0.04548	-0.00124	0.00487	-0.04656	-0.00232	0.00379
10	-0.04573	-0.00153	0.00602	-0.04706	-0.00286	0.00468
11	-0.04592	-0.00145	0.00572	-0.04719	-0.00272	0.00445
12	-0.04552	-0.00121	0.00478	-0.04658	-0.00228	0.00372
13	-0.04579	-0.00130	0.00513	-0.04693	-0.00244	0.00399
14	-0.04572	-0.00118	0.00466	-0.04676	-0.00222	0.00363
15	-0.04570	-0.00149	0.00587	-0.04701	-0.00279	0.00457
16	-0.04689	-0.00258	0.01014	-0.04914	-0.00483	0.00789
17	-0.04554	-0.00111	0.00438	-0.04651	-0.00208	0.00341
18	-0.04516	-0.00108	0.00426	-0.04610	-0.00203	0.00332
19	-0.04524	-0.00093	0.00364	-0.04605	-0.00173	0.00283
20	-0.04540	-0.00091	0.00358	-0.04620	-0.00171	0.00279
21	-0.04548	-0.00092	0.00363	-0.04629	-0.00173	0.00283
22	-0.04556	-0.00114	0.00449	-0.04655	-0.00214	0.00349
23	-0.04558	-0.00107	0.00420	-0.04651	-0.00200	0.00327
24	-0.04527	-0.00075	0.00294	-0.04593	-0.00140	0.00229
25	-0.04610	-0.00167	0.00658	-0.04756	-0.00313	0.00512
26	-0.04580	-0.00127	0.00498	-0.04690	-0.00237	0.00388
27	-0.65588	0.00511	0.00047	-0.65615	0.00484	0.00020
28	-0.65521	0.00932	0.00086	-0.65570	0.00884	0.00037
29	-0.65909	0.00064	0.00006	-0.65912	0.00061	0.00003
30	-0.62494	0.03473	0.00320	-0.62676	0.03292	0.00139
31	-0.65776	0.00173	0.00016	-0.65785	0.00164	0.00007
32	-0.64867	0.01017	0.00094	-0.64920	0.00964	0.00041
33	-0.65670	0.00077	0.00007	-0.65674	0.00073	0.00003
34	-0.66054	0.00001	0.00000	-0.66055	0.00001	0.00000
35	-0.65820	0.00000	0.00000	-0.65820	0.00000	0.00000
36	-0.61919	0.04247	0.00392	-0.62141	0.04025	0.00170
37	-0.61682	0.04234	0.00390	-0.61904	0.04013	0.00169
38	-0.65264	0.00849	0.00078	-0.65308	0.00804	0.00034
39	-0.65200	0.00001	0.00000	-0.65200	0.00001	0.00000
40	-0.64343	0.01534	0.00141	-0.64423	0.01454	0.00061
41	-0.34376	0.31828	0.02934	-0.36039	0.30165	0.01272
42	-0.64833	0.01481	0.00137	-0.64911	0.01403	0.00059
43	-0.66259	0.00027	0.00003	-0.66260	0.00026	0.00001
44	-0.04926	-0.00802	0.00135	-0.05056	-0.00933	0.00005
45	-0.04650	-0.00612	0.00103	-0.04749	-0.00711	0.00004
46	-0.04861	-0.00670	0.00113	-0.04970	-0.00779	0.00004
47	-0.04639	-0.00489	0.00082	-0.04719	-0.00569	0.00003
48	-0.05191	-0.01031	0.00174	-0.05358	-0.01199	0.00006
49	-0.04744	-0.00637	0.00107	-0.04847	-0.00741	0.00004
50	-0.04817	-0.00652	0.00110	-0.04922	-0.00757	0.00004
51	-0.04728	-0.00617	0.00104	-0.04828	-0.00717	0.00004
52	-0.05044	-0.00853	0.00144	-0.05183	-0.00991	0.00005
53	-0.04829	-0.00664	0.00112	-0.04937	-0.00772	0.00004
54	-0.05098	-0.00994	0.00168	-0.05259	-0.01156	0.00006
55	-0.04982	-0.00780	0.00131	-0.05109	-0.00906	0.00005
56	-0.04857	-0.00685	0.00115	-0.04969	-0.00796	0.00004
57	-0.05019	-0.00856	0.00144	-0.05158	-0.00995	0.00005
58	-0.04829	-0.00736	0.00124	-0.04948	-0.00855	0.00005
59	-0.04799	-0.00649	0.00109	-0.04904	-0.00754	0.00004
60	-0.04664	-0.00565	0.00095	-0.04755	-0.00656	0.00003
61	-0.04714	-0.00583	0.00098	-0.04809	-0.00678	0.00004
62	-0.04990	-0.00823	0.00139	-0.05123	-0.00956	0.00005
63	-0.74112	0.03957	0.00046	-0.73590	0.04478	0.00567
64	-0.78153	0.00031	0.00000	-0.78149	0.00035	0.00004
65	-0.76104	0.01931	0.00022	-0.75849	0.02186	0.00277
66	-0.78094	0.00002	0.00000	-0.78093	0.00002	0.00000
67	-0.74293	0.03988	0.00046	-0.73767	0.04514	0.00572
68	-0.36366	0.42158	0.00485	-0.30806	0.47717	0.06045
69	-0.73428	0.04910	0.00057	-0.72781	0.05558	0.00704
70	-0.78041	0.00026	0.00000	-0.78038	0.00030	0.00004
71	-0.78160	0.00012	0.00000	-0.78158	0.00014	0.00002
72	-0.76967	0.01594	0.00018	-0.76756	0.01804	0.00229
73	-0.78126	0.00057	0.00001	-0.78119	0.00065	0.00008
74	-0.77399	0.00000	0.00000	-0.77399	0.00000	0.00000
75	-0.78039	0.00003	0.00000	-0.78038	0.00003	0.00000
76	-0.78015	0.00000	0.00000	-0.78015	0.00000	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.55 The Elasticities with respect to Distances from Model 3 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-0.11187	-0.00210	0.00826	-0.11370	-0.00393	0.00643
2	-0.12757	-0.00240	0.00944	-0.12966	-0.00449	0.00734
3	-0.11898	-0.00360	0.01416	-0.12212	-0.00674	0.01102
4	-0.11810	-0.00286	0.01124	-0.12060	-0.00535	0.00875
5	-0.12344	-0.00391	0.01541	-0.12686	-0.00733	0.01199
6	-0.14243	-0.00395	0.01555	-0.14588	-0.00740	0.01210
7	-0.17487	-0.00437	0.01719	-0.17868	-0.00818	0.01337
8	-0.16504	-0.00521	0.02051	-0.16959	-0.00976	0.01596
9	-0.20149	-0.00548	0.02158	-0.20628	-0.01027	0.01679
10	-0.14912	-0.00498	0.01962	-0.15348	-0.00934	0.01526
11	-0.16740	-0.00530	0.02085	-0.17203	-0.00993	0.01623
12	-0.22551	-0.00602	0.02368	-0.23077	-0.01127	0.01843
13	-0.27175	-0.00774	0.03046	-0.27851	-0.01450	0.02370
14	-0.32365	-0.00839	0.03301	-0.33097	-0.01571	0.02569
15	-0.15921	-0.00520	0.02045	-0.16375	-0.00973	0.01591
16	-0.18352	-0.01008	0.03968	-0.19233	-0.01889	0.03088
17	-0.16112	-0.00394	0.01549	-0.16456	-0.00738	0.01206
18	-0.23744	-0.00569	0.02240	-0.24242	-0.01066	0.01743
19	-0.17846	-0.00365	0.01437	-0.18165	-0.00684	0.01118
20	-0.19653	-0.00394	0.01552	-0.19997	-0.00739	0.01207
21	-0.15838	-0.00321	0.01265	-0.16118	-0.00602	0.00984
22	-0.14996	-0.00375	0.01477	-0.15324	-0.00703	0.01150
23	-0.13671	-0.00320	0.01260	-0.13951	-0.00600	0.00980
24	-0.15795	-0.00260	0.01025	-0.16022	-0.00488	0.00797
25	-0.19638	-0.00713	0.02804	-0.20260	-0.01335	0.02182
26	-0.29769	-0.00823	0.03239	-0.30487	-0.01542	0.02520
27	-8.35401	0.06509	0.00600	-8.35741	0.06169	0.00260
28	-7.95183	0.11317	0.01043	-7.95774	0.10726	0.00452
29	-7.36679	0.00720	0.00066	-7.36717	0.00682	0.00029
30	-5.72789	0.31832	0.02935	-5.74452	0.30169	0.01272
31	-6.74928	0.01771	0.00163	-6.75020	0.01679	0.00071
32	-7.97172	0.12503	0.01153	-7.97825	0.11850	0.00500
33	-8.41500	0.00983	0.00091	-8.41552	0.00932	0.00039
34	-9.85677	0.00014	0.00001	-9.85677	0.00013	0.00001
35	-11.01027	0.00000	0.00000	-11.01027	0.00000	0.00000
36	-3.17365	0.21767	0.02007	-3.18502	0.20630	0.00870
37	-2.91702	0.20023	0.01846	-2.92748	0.18977	0.00800
38	-4.65765	0.06057	0.00558	-4.66082	0.05740	0.00242
39	-5.29033	0.00005	0.00000	-5.29033	0.00005	0.00000
40	-5.18595	0.12362	0.01140	-5.19240	0.11716	0.00494
41	-2.48424	2.30012	0.21206	-2.60440	2.17997	0.09191
42	-4.36152	0.09960	0.00918	-4.36673	0.09440	0.00398
43	-4.74162	0.00196	0.00018	-4.74172	0.00186	0.00008

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-0.29239	-0.04763	0.00803	-0.30012	-0.05536	0.00029
45	-0.38352	-0.05043	0.00850	-0.39171	-0.05862	0.00031
46	-0.42505	-0.05858	0.00987	-0.43456	-0.06809	0.00036
47	-0.49261	-0.05195	0.00875	-0.50105	-0.06039	0.00032
48	-0.60591	-0.12038	0.02029	-0.62545	-0.13992	0.00074
49	-0.49985	-0.06717	0.01132	-0.51076	-0.07808	0.00041
50	-0.33727	-0.04562	0.00769	-0.34468	-0.05303	0.00028
51	-0.54901	-0.07163	0.01207	-0.56064	-0.08325	0.00044
52	-0.51298	-0.08671	0.01461	-0.52705	-0.10079	0.00054
53	-0.43160	-0.05932	0.01000	-0.44123	-0.06895	0.00037
54	-0.57345	-0.11183	0.01885	-0.59161	-0.12998	0.00069
55	-0.50559	-0.07910	0.01333	-0.51843	-0.09194	0.00049
56	-0.58117	-0.08193	0.01381	-0.59447	-0.09523	0.00051
57	-0.46970	-0.08014	0.01350	-0.48271	-0.09315	0.00050
58	-0.48638	-0.07409	0.01249	-0.49841	-0.08612	0.00046
59	-0.48612	-0.06574	0.01108	-0.49680	-0.07642	0.00041
60	-0.58273	-0.07057	0.01189	-0.59418	-0.08203	0.00044
61	-0.65748	-0.08135	0.01371	-0.67069	-0.09456	0.00050
62	-0.61498	-0.10141	0.01709	-0.63144	-0.11788	0.00063
63	-10.40956	0.55573	0.00640	-10.33627	0.62901	0.07968
64	-10.96773	0.00431	0.00005	-10.96716	0.00488	0.00062
65	-10.75257	0.27281	0.00314	-10.71660	0.30879	0.03912
66	-12.40068	0.00027	0.00000	-12.40065	0.00031	0.00004
67	-8.58680	0.46096	0.00531	-8.52601	0.52175	0.06609
68	-3.89559	4.51603	0.05198	-3.30004	5.11158	0.64753
69	-6.57722	0.43983	0.00506	-6.51922	0.49783	0.06306
70	-13.38253	0.00451	0.00005	-13.38193	0.00510	0.00065
71	-13.35840	0.00210	0.00002	-13.35812	0.00237	0.00030
72	-11.41245	0.23633	0.00272	-11.38128	0.26749	0.03389
73	-11.85315	0.00871	0.00010	-11.85201	0.00986	0.00125
74	-14.23366	0.00000	0.00000	-14.23366	0.00000	0.00000
75	-14.92130	0.00053	0.00001	-14.92123	0.00060	0.00008
76	-15.40655	0.00000	0.00000	-15.40655	0.00000	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.56 The Elasticities with respect to Food Expense Shares from Model 3 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	0.33048	0.00620	-0.02440	0.33590	0.01161	-0.01898
2	0.71914	0.01352	-0.05321	0.73095	0.02533	-0.04140
3	0.57260	0.01732	-0.06816	0.58772	0.03244	-0.05303
4	0.76273	0.01844	-0.07259	0.77884	0.03455	-0.05648
5	0.73816	0.02341	-0.09213	0.75861	0.04385	-0.07169
6	0.73062	0.02026	-0.07974	0.74831	0.03796	-0.06205
7	0.83461	0.02084	-0.08202	0.85281	0.03904	-0.06382
8	0.64810	0.02046	-0.08054	0.66598	0.03833	-0.06266
9	0.74480	0.02027	-0.07977	0.76250	0.03797	-0.06206
10	0.61066	0.02041	-0.08033	0.62849	0.03824	-0.06251
11	0.72980	0.02310	-0.09091	0.74997	0.04327	-0.07074
12	0.71683	0.01912	-0.07527	0.73354	0.03583	-0.05857
13	0.62770	0.01788	-0.07036	0.64332	0.03349	-0.05475
14	0.47907	0.01242	-0.04887	0.48992	0.02326	-0.03802
15	0.73953	0.02414	-0.09500	0.76061	0.04522	-0.07391
16	0.67846	0.03727	-0.14671	0.71102	0.06983	-0.11415
17	0.85734	0.02095	-0.08244	0.87564	0.03924	-0.06415
18	0.87131	0.02089	-0.08221	0.88956	0.03913	-0.06397
19	0.63471	0.01299	-0.05111	0.64606	0.02433	-0.03977
20	0.82268	0.01650	-0.06495	0.83710	0.03092	-0.05054
21	0.69097	0.01402	-0.05517	0.70322	0.02626	-0.04293
22	0.65002	0.01627	-0.06404	0.66423	0.03048	-0.04983
23	0.78748	0.01844	-0.07258	0.80359	0.03455	-0.05647
24	0.84549	0.01394	-0.05486	0.85766	0.02611	-0.04268
25	0.87856	0.03188	-0.12547	0.90641	0.05972	-0.09762
26	0.94971	0.02625	-0.10333	0.97264	0.04919	-0.08040
27	11.99976	-0.09350	-0.00862	12.00465	-0.08861	-0.00374
28	12.70877	-0.18087	-0.01668	12.71821	-0.17142	-0.00723
29	11.56500	-0.01130	-0.00104	11.56559	-0.01071	-0.00045
30	11.44397	-0.63599	-0.05863	11.47719	-0.60277	-0.02541
31	11.87470	-0.03116	-0.00287	11.87632	-0.02954	-0.00125
32	12.70128	-0.19921	-0.01837	12.71169	-0.18880	-0.00796
33	15.80980	-0.01848	-0.00170	15.81076	-0.01751	-0.00074
34	14.56176	-0.00020	-0.00002	14.56177	-0.00019	-0.00001
35	19.18849	0.00000	0.00000	19.18849	0.00000	0.00000
36	8.37078	-0.57412	-0.05293	8.40077	-0.54413	-0.02294
37	10.17668	-0.69856	-0.06440	10.21317	-0.66207	-0.02791
38	10.08552	-0.13115	-0.01209	10.09238	-0.12430	-0.00524
39	12.18764	-0.00012	-0.00001	12.18765	-0.00012	0.00000
40	10.99615	-0.26212	-0.02417	11.00984	-0.24842	-0.01047
41	7.18793	-6.65517	-0.61357	7.53557	-6.30753	-0.26593
42	12.23092	-0.27932	-0.02575	12.24551	-0.26473	-0.01116
43	11.84223	-0.00489	-0.00045	11.84248	-0.00463	-0.00020
44	0.94328	0.15366	-0.02589	0.96822	0.17860	-0.00095
45	0.81089	0.10663	-0.01797	0.82820	0.12394	-0.00066
46	0.82921	0.11427	-0.01926	0.84777	0.13283	-0.00071
47	1.00722	0.10622	-0.01790	1.02447	0.12347	-0.00066
48	1.10266	0.21907	-0.03692	1.13822	0.25464	-0.00135
49	1.04082	0.13987	-0.02357	1.06352	0.16257	-0.00086
50	0.98975	0.13389	-0.02256	1.01149	0.15562	-0.00083
51	1.04061	0.13576	-0.02288	1.06265	0.15780	-0.00084
52	1.11076	0.18776	-0.03164	1.14124	0.21823	-0.00116
53	0.93912	0.12908	-0.02175	0.96007	0.15004	-0.00080
54	1.06389	0.20747	-0.03496	1.09757	0.24115	-0.00128
55	1.05720	0.16541	-0.02787	1.08405	0.19226	-0.00102
56	1.00712	0.14198	-0.02393	1.03017	0.16503	-0.00088
57	0.78474	0.13389	-0.02256	0.80647	0.15563	-0.00083
58	0.89930	0.13699	-0.02309	0.92154	0.15923	-0.00085
59	0.99001	0.13389	-0.02256	1.01174	0.15562	-0.00083
60	1.04291	0.12630	-0.02128	1.06341	0.14681	-0.00078
61	1.12394	0.13907	-0.02344	1.14652	0.16165	-0.00086
62	1.09508	0.18059	-0.03043	1.12440	0.20990	-0.00112
63	9.53696	-0.50914	-0.00586	9.46981	-0.57628	-0.07300
64	6.74979	-0.00266	-0.00003	6.74944	-0.00301	-0.00038
65	11.87241	-0.30122	-0.00347	11.83268	-0.34094	-0.04319
66	11.16511	-0.00025	0.00000	11.16507	-0.00028	-0.00004
67	7.79675	-0.41855	-0.00482	7.74155	-0.47374	-0.06001
68	5.13319	-5.95074	-0.06849	4.34844	-6.73550	-0.85324
69	9.86078	-0.65941	-0.00759	9.77382	-0.74636	-0.09455
70	12.11441	-0.00408	-0.00005	12.11388	-0.00462	-0.00059
71	13.79070	-0.00217	-0.00002	13.79041	-0.00245	-0.00031
72	9.01578	-0.18670	-0.00215	8.99115	-0.21132	-0.02677
73	11.80269	-0.00867	-0.00010	11.80155	-0.00981	-0.00124
74	17.72786	0.00000	0.00000	17.72786	0.00000	0.00000
75	11.95345	-0.00043	0.00000	11.95340	-0.00048	-0.00006
76	17.00383	0.00000	0.00000	17.00383	0.00000	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.

Table F.57 The Elasticities with respect to Housing Expense Shares from Model 3 of Group 3 in 2011

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
1	-1.20060	-0.02252	0.08864	-1.22027	-0.04219	0.06897
2	-1.40622	-0.02643	0.10404	-1.42930	-0.04952	0.08095
3	-1.14668	-0.03468	0.13650	-1.17697	-0.06497	0.10621
4	-1.29598	-0.03134	0.12334	-1.32336	-0.05871	0.09597
5	-1.09740	-0.03480	0.13697	-1.12779	-0.06520	0.10657
6	-1.14560	-0.03177	0.12504	-1.17335	-0.05952	0.09729
7	-1.30082	-0.03248	0.12784	-1.32920	-0.06085	0.09947
8	-0.91904	-0.02902	0.11420	-0.94439	-0.05436	0.08886
9	-1.11659	-0.03038	0.11959	-1.14313	-0.05692	0.09305
10	-0.85150	-0.02846	0.11202	-0.87636	-0.05332	0.08716
11	-1.06310	-0.03365	0.13243	-1.09249	-0.06304	0.10304
12	-1.04846	-0.02797	0.11010	-1.07289	-0.05241	0.08566
13	-0.90614	-0.02581	0.10157	-0.92868	-0.04835	0.07903
14	-0.77927	-0.02020	0.07949	-0.79691	-0.03784	0.06185
15	-0.98023	-0.03199	0.12592	-1.00817	-0.05994	0.09797
16	-0.89984	-0.04944	0.19458	-0.94302	-0.09262	0.15140
17	-1.30898	-0.03198	0.12588	-1.33692	-0.05992	0.09794
18	-1.22811	-0.02944	0.11588	-1.25383	-0.05516	0.09016
19	-1.21111	-0.02478	0.09753	-1.23275	-0.04642	0.07589
20	-1.40742	-0.02823	0.11112	-1.43208	-0.05289	0.08646
21	-1.41972	-0.02880	0.11335	-1.44487	-0.05396	0.08820
22	-1.10076	-0.02755	0.10845	-1.12483	-0.05162	0.08438
23	-1.29694	-0.03037	0.11953	-1.32346	-0.05690	0.09301
24	-1.70830	-0.02816	0.11084	-1.73289	-0.05276	0.08624
25	-1.10387	-0.04005	0.15764	-1.13886	-0.07504	0.12266
26	-1.25702	-0.03475	0.13677	-1.28737	-0.06510	0.10642
27	-16.15287	0.12585	0.01160	-16.15945	0.11928	0.00503
28	-15.72387	0.22378	0.02063	-15.73556	0.21209	0.00894
29	-15.97005	0.01560	0.00144	-15.97086	0.01479	0.00062
30	-15.86315	0.88158	0.08128	-15.90920	0.83553	0.03523
31	-16.28595	0.04274	0.00394	-16.28818	0.04051	0.00171
32	-17.69834	0.27758	0.02559	-17.71284	0.26308	0.01109
33	-20.55452	0.02402	0.00221	-20.55577	0.02277	0.00096
34	-20.05219	0.00028	0.00003	-20.05220	0.00027	0.00001
35	-31.98886	0.00000	0.00000	-31.98886	0.00000	0.00000
36	-13.14454	0.90153	0.08312	-13.19163	0.85444	0.03602
37	-14.84094	1.01873	0.09392	-14.89416	0.96551	0.04071
38	-15.78974	0.20532	0.01893	-15.80046	0.19460	0.00820
39	-22.47176	0.00023	0.00002	-22.47178	0.00022	0.00001
40	-16.17434	0.38555	0.03555	-16.19448	0.36541	0.01541
41	-8.84901	8.19314	0.75537	-9.27700	7.76516	0.32738
42	-16.41129	0.37478	0.03455	-16.43086	0.35521	0.01498
43	-18.98203	0.00784	0.00072	-18.98244	0.00743	0.00031

Province	Ag			Nonag		
	Ekk	Elk	Esk	Ekk	Elk	Esk
44	-1.18948	-0.19376	0.03265	-1.22093	-0.22522	0.00120
45	-1.30048	-0.17102	0.02882	-1.32824	-0.19878	0.00106
46	-1.25201	-0.17254	0.02908	-1.28002	-0.20055	0.00107
47	-1.57825	-0.16644	0.02805	-1.60527	-0.19346	0.00103
48	-1.10677	-0.21989	0.03706	-1.14246	-0.25559	0.00136
49	-1.33313	-0.17915	0.03019	-1.36221	-0.20823	0.00111
50	-1.38738	-0.18767	0.03163	-1.41785	-0.21814	0.00116
51	-1.38468	-0.18065	0.03044	-1.41401	-0.20998	0.00112
52	-1.35906	-0.22973	0.03871	-1.39636	-0.26702	0.00142
53	-1.42230	-0.19550	0.03294	-1.45404	-0.22723	0.00121
54	-1.09304	-0.21316	0.03592	-1.12765	-0.24776	0.00132
55	-1.22942	-0.19235	0.03241	-1.26064	-0.22357	0.00119
56	-1.32370	-0.18661	0.03145	-1.35399	-0.21690	0.00115
57	-0.93835	-0.16010	0.02698	-0.96434	-0.18609	0.00099
58	-1.14758	-0.17481	0.02946	-1.17596	-0.20319	0.00108
59	-1.30153	-0.17602	0.02966	-1.33010	-0.20459	0.00109
60	-1.42739	-0.17287	0.02913	-1.45545	-0.20093	0.00107
61	-1.56992	-0.19425	0.03273	-1.60145	-0.22579	0.00120
62	-1.18525	-0.19546	0.03294	-1.21698	-0.22719	0.00121
63	-12.73114	0.67967	0.00782	-12.64151	0.76930	0.09745
64	-11.71910	0.00461	0.00005	-11.71850	0.00522	0.00066
65	-15.35261	0.38952	0.00448	-15.30125	0.44089	0.05585
66	-18.88955	0.00042	0.00000	-18.88949	0.00047	0.00006
67	-10.70924	0.57490	0.00662	-10.63342	0.65071	0.08243
68	-6.83147	7.91950	0.09115	-5.78709	8.96389	1.13553
69	-13.01122	0.87008	0.01001	-12.89648	0.98482	0.12476
70	-15.25464	0.00514	0.00006	-15.25396	0.00582	0.00074
71	-18.81984	0.00295	0.00003	-18.81945	0.00334	0.00042
72	-10.73678	0.22234	0.00256	-10.70746	0.25166	0.03188
73	-15.90609	0.01169	0.00013	-15.90455	0.01323	0.00168
74	-27.04594	0.00000	0.00000	-27.04594	0.00000	0.00000
75	-18.02034	0.00064	0.00001	-18.02026	0.00073	0.00009
76	-24.02048	0.00000	0.00000	-24.02048	0.00000	0.00000

Note: Ekk is the direct elasticity; Elk is the cross elasticity in the same nest; Esk is the cross elasticity in the different nest; Standard errors in parentheses; The direct elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of that province; The cross elasticity is a percentage change in the probability of choosing a province due to a 1% change in a provincial attribute of another province.