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## **Working Paper**

Unemployment and transitions in the Turkish labor market: evidence from individual level data

IZA Discussion Papers, No. 1663

#### **Provided in Cooperation with:**

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*Suggested Citation:* Taşçi, H. Mehmet; Tansel, Aysit (2005): Unemployment and transitions in the Turkish labor market: evidence from individual level data, IZA Discussion Papers, No. 1663, Institute for the Study of Labor (IZA), Bonn

This Version is available at: https://hdl.handle.net/10419/33623

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IZA DP No. 1663

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July 2005

Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor

# Unemployment and Transitions in the Turkish Labor Market: Evidence from Individual Level Data

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## **ABSTRACT**

# **Unemployment and Transitions in the Turkish Labor Market:** Evidence from Individual Level Data\*

This paper provides a systematic analysis of the determinants of transitions in the Turkish labor market by using the Household Labor Force Survey (HLFS) panel data of 2000 and 2001. We provide two types of evidence. First, we compute annual transition probabilities between the labor market states of employment, unemployment and out-of-the labor force under Markovian assumptions by gender and rural-urban residence and marital status. Transition probabilities are used to analyze the differences in unemployment rates of these groups. Second, we present estimates of gender-specific multinomial logit models to analyze the determinants of men's and women's transition probabilities across labor market states. We find that urban women have higher unemployment rates than urban men because they have lower probability of exiting unemployment for a job and higher probability of exiting employment for unemployment. Non-married men and women's unemployment rates are higher than married men and women's. This may be attributed to the higher probability of nonmarried men and women's to lose a job. Increases in education level are found to decrease the probability of losing a job. University graduates of two-year and over are more likely to find employment compared to non-graduates. Younger individuals are more likely to lose a job but older individuals are less likely to find a job from unemployment. In provinces with high unemployment the probability of obtaining a job is lower from unemployment. The findings indicate negative duration dependence for women, but not for men. Men improve their chances of obtaining a job if they use newspapers or worker agents.

JEL Classification: J23, J64, J16

Keywords: panel data, unemployment, transition probabilities, gender, Turkey

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<sup>\*</sup> This paper is based on H. Mehmet Tasci's PhD thesis (see Tasci, 2005) prepared under the supervision of Aysit Tansel at the Department of Economics, METU. H. Mehmet Tasci would like to thank Hakan Ercan, Cem Somel, Yusuf Ziya Özcan, Abuzer Pinar and Murat Kirdar for helpful comments on his PhD thesis. Thanks are also due to Sefik Yildizeli and Ömer Demir past and current presidents of the State Institute of Statistics (SIS) of Turkey, Nurgül Ögüt former vice-president and Enver Tasti director of the Labor Force Statistics Department of SIS for their kind help in implementing this study. An earlier version of this paper was presented at the ERC/METU International Conference in Economics VII, September 2003 in Ankara. Thanks are also due to conference participants, particularly Insan Tunali, for helpful comments. Any errors are our own.

#### 1. Introduction

"The labor market is in continuous internal motion, with workers moving rapidly between jobs, unemployment and non-participation even during periods of stable economic activity" (Marston, 1976, p.169). This paper is concerned with the transitions between the labor market states. There are many studies on this topic for the developed countries, for example, Marston (1976) and Francesconi (1999) for the USA, Bellman et al. (1995) for Germany, Nielsen et al. (2000) for Norway, and Theeuwes et al. (1990) for Holland investigated the transitions. There are also several studies for the transition countries, for instance Huitfeldt (1996) and Lauerova and Terrel (2002) studied the transitions in the Czech Republic while Foley (1997) and Grogan (2000) studied the same in Russia. Studies for developing countries are scarce. Wolterman (2002) who studied the transitions in Brazil is the only study we encountered. Present paper is the first study of the transitions between labor market states in Turkey.

In February 2001, Turkey experienced the worst economic and financial crisis of the history of the republic. Gross Domestic Product declined by about 10 percent. Unemployment rate increased from 6.56 percent in 2000 to 8.32 percent 2001. Economy recovered in 2002. Since then the economy grew at an average annual rate of 7.5 percent. The annual inflation rate declined from 68.5 percent in 2001 to 8.18 percent in 2005. The main feature of the post 2001 recovery period was "jobless growth". In spite of the high growth rates after the 2001 crisis, unemployment rate is in double digits. This emerges as a sign for concern. The numbers unemployed stood at 2.8 million people in the first quarter of 2005 with unemployment rate of 11.7 percent. The unemployment rate of the young was much higher with 22.2 percent for

men and 21.2 percent for women.

In this paper we undertake a systematic study of the determinants of transitions in the Turkish labor market using the Household Labor Force Survey (HLFS) panel data of 2000 and 2001. Towards this end we provide two types of evidence. First, we compute annual transition probabilities between labor market states of employment, unemployment and out-of-the labor force by gender, rural-urban residence, marital status, age and educational groups. We then use the transition probabilities to analyze the differences in unemployment rates of these groups. We highlight the differences between urban men and urban women and between individuals with different marital status. We next present estimates of gender-specific multinomial logit models to analyze the determinants of men and women's transition probabilities across labor market states in Turkey. This analysis includes the factors which can explain the transition probabilities such as age, education, regions of residence, occupation, provincial unemployment rate etc. This process provides insights about factors affecting transition probabilities. The findings are important for designing policies to reduce the unemployment rate.

This paper proceeds as follows. The HLFS and sample data used in this paper are briefly described in Section 2. Section 3 presents the methodology. Section 4 presents transition probabilities between the labor market states under Markovian assumptions. Section 5 analyzes the sources of differentials in unemployment rates among some demographic groups by using Marston (1976)'s decomposition. Section 6 provides the estimation results of the multinomial-logit models for determinants of transitions out of employment, unemployment and not-in-the labor force. The final

section provides the concluding remarks.

#### 2. The Data and Unemployment Characteristics

The data used in this paper are taken from the Turkish Household Labor Force Survey (HLFS) which is nationally representative and covers rich information about the Turkish labor market. This survey was conducted biannually by the State Institute of Statistics of Turkey between 1988 and 1999. Since 2000, the survey has been implemented on a quarterly basis with a panel feature. The survey includes about 23,000 households in every quarter. It conveys information about all individuals in the household.

The panel feature of the HLFS makes it possible to measure the changes between successive quarters and years (SIS, 2001b:18). Approximately, half of the individuals surveyed in the first quarter of 2000 are re-interviewed in the first quarter of 2001 in which the sample is still representative of the country (SIS, 2001b:24). This property allows us to follow the individuals through time. For example, we can observe whether an unemployed individual finds a job, or an employed individual loses his/her job over time.

HLFS distinguishes between the labor market states of employed, unemployed, and out-of-the labor force. Following internationally accepted definitions are used in order to identify these labor market states. The employed covers all individuals aged 15 or over who during the reference period were economically active for at least one hour. They could be regular employee, casual

employee, employer, self-employed or family worker. Individuals who did not work during the reference period for various reasons but have a job attachment are also included. The unemployed includes all individuals aged 15 or over who were not employed at any job even one hour, who have no job attachment during the reference period. They should have used also at least one of the job search channels for seeking work during the last three months and should be available to start work within 15 days. The remaining individuals aged 15 or over comprise the out-of-the labor force group (SIS, 2001a:XXIII-XXIV).

In this paper first two quarters of the 2000 and 2001 HLFS are used. The sample is restricted to individuals between the ages 15 and 65. There are 19,653 matching individuals over the first quarters of 2000 and 2001. The same number is 18,813 over the second quarters of 2000 and 2001.

Tables 1 and 2 report the main characteristics of the individuals in the three labor market states in the first and second quarters of 2000 and 2001, respectively. The labor force participation rate for all individuals was about 43 percent in the first quarter of 2000 and about 46 percent in the second quarter of 2001. This is very low compared to the labor force participation rates in the OECD countries (OECD database, 2004). Further women's labor force participation rate is in particular low at about 19-22 percent during the first and second quarters of 2000 and 2001. We note that a low proportion of individuals who are non-graduate (illiterate plus literate without a diploma) is employed. Similarly, a rather low proportion of married females are employed. The unemployment rate for women is somewhat higher than for men. However, the unemployment rate for urban women is substantially higher

than for urban men, 16 percent versus 9 percent in the first quarter of 2000. The unemployment rate for youth between 15-24 years is also very high, 17 percent for men and 21 percent for women in the first quarter of 2000. Further, we note that the unemployment rate of non-married men (17 percent) and women (19 percent) are much higher than that of the married men (6 percent) and women (6 percent).

The trends in annual urban versus rural unemployment rates, between 1988 and 2004, are provided in Figure 1. The rate of unemployment for urban men has been quite steady while for urban women it has been on a declining trend. Nevertheless, the recent economic and financial crisis negatively affected these tendencies (Tunali 2003:45). Especially, in the years between 2000 and 2002, the rate of unemployment increased from 7.77 percent to 13.07 percent for urban men and from 13.00 percent to 18.81 percent for urban women. The unemployment rates have been noticeably lower in rural areas. In the rural areas about 88 percent of female labor force and about 57 percent of the male labor force were employed in the agricultural sector (SIS, 2005). This finding supports the suggestion of Tunali (2003:44) that "while women have traditionally been economically active in family-owned farms, young men have sought work outside agriculture to supplement farming income". Therefore, the rate of unemployment for rural women is generally lower than for rural men while the rate of unemployment of urban women is much higher than that of urban men.

Trends in unemployment rates by gender and marital status over time are shown in Figure 2. An increase in these rates after the 2001 crisis is obvious in this figure also. The figure shows that unemployment rates of non-married men and women are much higher than those for married men and women. Therefore, this

study seeks to provide reasons for the differential in unemployment rates of urban men and women and of the non-married versus married men and women.

### 3. Methodology

#### 3.1 Transition Probabilities Methodology

The movement of the individuals from one labor market state to another is regarded as a dynamic process which can be described by a Markov Process. Individuals in each period are observed in one of the three labor market states of employment, unemployment and out-of-the labor force. Corresponding to these three labor market states nine transition probabilities between states i and j can be observed. These are provided in the following matrix notation as:

$$T = \begin{bmatrix} P_{ee} & P_{eu} & P_{eo} \\ P_{ue} & P_{uu} & P_{uo} \\ P_{oe} & P_{ou} & P_{oo} \end{bmatrix}$$
(1)

The cells of the matrix, T, show the transition probabilities between the labor market states. For example,  $P_{uu}$  denotes the probability that an individual stays in unemployment between time t and t+1;  $P_{ue}$  refers to the probability of leaving unemployment for employment, etc. The gross probability of transition from state i to state j is defined as the ratio of the number of persons in state i at time t who are in state j at time t+1, to the stock of persons in the original state i at time t (Marston, 1976).

Marston (1976:171) states that we do not need to know all of the transition probabilities between the labor market states to depict the system. Since the probability of keeping the initial position in any one of the labor market state is equal to one minus the probability that the individual exits from the initial position for the other states, we need only two of the each row. Thus, we have six independent transition probabilities. All of these probabilities can be transformed in various alternative techniques. For example, one can calculate the "probability of successful labor-force entry" as (Marston, 1976:172):

$$P_{ns} = \frac{P_{oe}}{P_{oe} + P_{ou}} \tag{2}$$

Following the equation developed by Marston (1976) one can write the rate of unemployment (UR) in terms of the transition probabilities. Thus, if the transitions into and out of employment are equal and the transitions into and out of unemployment are equal, i.e. if the labor market is in a "steady state". the rate of unemployment can be written in terms of the transition probabilities as:

$$UR = \frac{P_{eu} + (1 - P_{ns})P_{eo}}{P_{eu} + (1 - P_{ns})P_{eo} + P_{ue} + P_{ns}P_{uo}}$$
(3)

It should be noted that the rate of unemployment shown in the equation (3) will not be equal to the actual unemployment rate due to the possible biases in the gross flow data and the fact that the labor market may not be in steady state (DeBoer and Seeborg, 1989:407). Nevertheless, this formula may be very functional in examining the impacts of changes in the transition probabilities on the rate of unemployment.

We observe from equation (3) that rises in the  $P_{eu}$ ,  $P_{eo}$ , and  $P_{ou}$  rise the rate of unemployment. However, increases in  $P_{ue}$ ,  $P_{uo}$ , and  $P_{oe}$  reduce the rate of unemployment. Lauerova and Terrel (2002:7) suggest that if we can identify the transition probabilities that are crucial for decreasing the rate of unemployment for a particular labor market group, then we can design the appropriate policies to decrease the unemployment rate.

#### 3.2 Multinomial Logit Model

We estimate a gender-specific multinomial logit model of transition probabilities in order to assess the effects of personal characteristics, employment characteristics and local labor market conditions. The multinomial logit model is given by:

$$\Pr(Y_{it} = j \mid Y_{it-1} = k) = \frac{\exp(\beta'_{j} Z_{i})}{\sum_{k} \exp(\beta'_{k} Z_{i})}, \qquad j,k=1,2,3.$$
 (4)

where subscript i represents the individual and  $Z_{ijk}$  are the characteristics of the i-th individual moving from state k to state j. The covariates included in the Z vector such as age, education, marital status etc. are described in Table 3. Greene (1994:666) states that the coefficients of the multinomial-logit model are difficult to interpret. Therefore, we obtain the marginal effects. The marginal effect of a covariate,  $z_i$ , on the transition probability to state j,  $P_j$ , is given by:

$$\frac{dP_j}{dz_i} = P_j \left[ \beta_j - \sum_k P_k \beta_k \right], \tag{5}$$

where  $\beta_j$  and  $\beta_k$  are the relevant elements of the parameter vector  $\beta$ . Consequently, the size of a variable's effect depends on the choice of Pj (Foley (1997:24) and Lauerova and Terrel (2002:8)). In this paper, we provide the estimates of marginal effects and their standard errors evaluated at the sample means of the variables.

#### 4. Estimates of Transition Probabilities

In this section we will examine the annual transition probabilities between the first quarters of 2000 and 2001 in Table 4 and between the second quarters of 2000 and 2001 in Table 5. These probabilities are presented by gender, rural-urban residence, marital status, age and education groups.

#### 4.1 Transitions from Employment

Table 4 (5) shows that the probability that an individual stays employed (P<sub>ee</sub>) from the first (second) quarter of 2000 to the first (second) quarter of 2001 is 79.47 (80.46) percent. Both of these probabilities are not very high because of the crisis experienced during the first two quarters of 2001 and the ensuing recession. Further, P<sub>ee</sub> is lower for women with 61.4 percent than for men with 86.15 percent. As a result women have higher risk of losing their jobs compared to men. Most of the women who lose their jobs become discouraged and go out-of-the labor force rather than go into unemployment. Similar results hold if we consider rural-urban residence differential for men and women. The probability of remaining employed (P<sub>ee</sub>) is

higher for urban men and women than for rural men and women in the first quarter results and the opposite holds in the second quarter results.

The probability of remaining employed for a married individual is higher than for a non-married individual between both the first and the second quarters. Further, the gender differential in P<sub>ee</sub> is higher for married than for non-married individuals. This gender gap for married individuals is 27.98 (18.00) percent between the first (second) quarter transitions while for non-married individuals it is 8.25 (9.9) percent between the first (second) quarter transitions. Hence, married men have lower probability of losing their jobs compared to married women. This makes sense in the Turkish context since married men as traditional breadwinners, show greater job attachment than married women.

The youngest age group 15-19 has higher probability of losing their jobs than the older age groups. We further observe that the probability of losing a job decreases with an increase in the education level. For men the probability of losing a job is less than ten percent for high school graduates and over in the first and second quarter transitions while for women this probability is less than ten percent only for university level education.

## **4.2 Transitions from Unemployment**

The probability that an individual finds a job from unemployment (P<sub>ue</sub>) between the first quarters of 2000 and 2001 is 45.66 percent, which decreases to 42.66 percent between the second quarters of 2000 and 2001. This decrease must be

attributed to the economic crisis experienced during the first two quarters of 2001 and the ensuing recession. The probability of remaining unemployed ( $P_{uu}$ ) is higher for women than for men in the both quarter transitions. The increase in the probability of going from unemployment to out-of-the labor force ( $P_{uo}$ ) from first to the second quarter transitions is striking. This probability increases from 4.45 percent to 26.81 percent for men and from 6.40 percent to 55.29 percent for women from the first to the second quarter transitions. The increase is much larger for women than for men. Similar patterns are observed for rural-urban and married-non-married groups. The increases in the probability of going from unemployment to out-of-the labor force are much larger for urban women than for urban men and for married women than for married men. The discouraged worker effect implies an increase in the probability of going from unemployment to out-of-the labor force during recessions (Seeborg and DeBoer, 1989). This increase was obvious during the second quarter transitions of the recession period. The discouraged worker effect is mostly observed for women rather than for men.

The probability of finding a job from unemployment is lowest for age groups 55 plus and age 15-19. The probability of going from unemployment to out-of-the labor force is highest for the same age groups. The probability of finding a job from unemployment shows an increase with the level of education except for the high school and vocational high school graduates in the first quarter transitions. In the second quarter transitions this probability increases with the level of education except for the vocational high school graduates. Further, the probability of going from unemployment to out-of-the labor force is larger for all education levels in the

second quarter transitions than in the first quarter transitions. For instance, for the non-graduates this probability increases from 8.33 percent to 53.85 percent.

#### 4.3 Transitions from Out-of-the Labor Force

The probability that an individual remains out-of-the labor force is about 86 percent for the first and second quarter transitions. The probability from out-of-the labor force to unemployment increases for women while it decreases for men from the first quarter to the second quarter transition. Similarly, this probability increases for married women while it decreases for married men from the first quarter to the second quarter transition. These observations imply that as economic conditions worsen from the first quarter to the next, male workers become unemployed and women reduce their reservation wage and enter the labor market as added-workers.

Men are more likely to find a job from out-of-the labor force than women: 22.89 percent versus 6.69 percent in the first quarter transition. Further, married men are least likely to remain out-of-the labor force (smallest  $P_{oo}$ ) and most likely to find a job (highest  $P_{oe}$ ) in both the first and second quarter transitions. The examination of transitions by age group indicates that the probability of going from out-of-the labor force to unemployment decreases smoothly with age. The 55-plus age group has the lowest probability of leaving for a job and the highest probability of remaining in out-of-the labor force in both quarter transitions. Analysis of the transitions by education level indicates that the probability of going from out-of-the labor force to unemployment increases with the level of education except for the two- and four-year university level in the first quarter transition and except for the vocational high

school level in the second quarter transition. Four-year university and over group has the highest probability of leaving for a job in both quarter transitions and lowest probability of remaining in out-of-the labor force in the second quarter transition.

In the next section we examine the transition probabilities by using the Marston's decomposition in equation (3).

#### 5. Sources of Unemployment Rate Differentials by Gender and Residence

In order to understand the differentials in unemployment rates we should examine the differentials in all transition probabilities besides transitions in and out of unemployment. It is clear from the equation (3) that the unemployment rate is negatively correlated with the probabilities of  $P_{ue}$ ,  $P_{uo}$ , and  $P_{oe}$ . Thus, the increases in these three transition probabilities will decrease the rate of unemployment. On the other hand, the probabilities of  $P_{eu}$ ,  $P_{eo}$  and  $P_{ou}$  are positively related with the rate of unemployment and the increases in these probabilities will increase the rate of unemployment.

Let us first look at the sources of unemployment rate differentials between urban men and urban women. We know that larger values of the probabilities of  $P_{ue}$ ,  $P_{uo}$ , and  $P_{oe}$  for urban men compared to urban women increase the unemployment rate differential between urban men and urban women, since these transition probabilities decrease the rate of unemployment for urban men more than that for urban women. Therefore, as shown in Tables 6 and 7, urban women's larger unemployment rate is being forced by differences in the two probabilities. These are the probability of a move from unemployment and out-of-the-labor-force to

employment (P<sub>ue</sub> and P<sub>oe</sub>). These probabilities are 34.10 (31.25) and 15.26 (13.19) percentage points larger for urban men than for urban women in the first (second) quarters. The difference in the  $P_{uo}$  is in favour of urban women (i.e. decreasing the rate of unemployment for urban women more than that for urban men). These are 1.82 (25.78) percentages in the first (second) quarter transitions. But this cannot compensate the other differences in probabilities of P<sub>ue</sub> and P<sub>oe</sub>. Lauerova and Terrel (2002:12) reach the same conclusion for the Czech Republic in explaining the gender differential in unemployment rate. Let us now look at the other remaining three probabilities: Peu, Peo and Pou. We know that if one of these transition probabilities is lower for urban men than for urban women, it decreases rate of unemployment for urban men compared with that of for urban women. Thus, it increases the difference among them. However, as can be observed from the Tables 6 and 7, Peo and Pou are higher for urban women than urban men. These two probabilities contribute to increase the gender differential in urban unemployment rates, and the largest contribution comes from Peo. Thus, urban women are more likely to leave the labor force from employment than urban men, i.e. become discouraged. Also, the difference in Peu is in favor of urban women, but this cannot compensate the other differences in Peo and Pou.

We now look at the unemployment rate differentials between non-married and married individuals. This gap is positive in the two transition periods. All the transition probabilities that determine the rate of unemployment are against the non-married individuals, except  $P_{uo}$  in the first quarter transition. The probability of losing a job and going to unemployment ( $P_{eu}$ ) is more than two times higher for non-married individuals than for the married in the first quarter transition. The difference

between non-married women and men is also positive. The two main sources that explain non-married women's higher unemployment rate with respect to non-married men are the transition probability from unemployment to employment and from employment to not-in-the labor force. The difference in the first probability is -28.47, that is, negatively related to the unemployment rate, and the second probability is 10.48, which is positively related to the unemployment rate in the first quarter transition. Therefore these probabilities increase the unemployment rate differential between non-married women and non-married men. As shown in the Table 8, the most pronounced difference in unemployment rates is seen between non-married women and married women. There are two sources of this difference; these are  $P_{ns}$  and  $P_{eo}$ .

When we control for education, we observe that the unemployment rate differential between non-graduates and other education levels are negative for the individuals with less than university degree in both transition periods. It is observed from the Tables 8 and 9 that two main sources of this negative difference are the differential between  $P_{ns}$  and  $P_{uo}$ . In the Tables 8 and 9 we provided the partial differences in unemployment rates for prime aged and education groups for men and women. These tables indicate that the difference between women and men is generally positive and the gender gap reaches its maximum level for the middle school graduates in the first quarter and for the high school graduates in the second quarter transition.

#### 6. Multinomial-Logit Estimation Results

In this section, we pool the two quarters (quarter transition data) of the HLFS and estimate each model at the means of the explanatory variables. Consequently we have 37,984 individuals in the multinomial-logit estimation. In the Appendix Table 1 we provide the means and the standard deviations of the variables used in the analysis by labor market state of origin; employment, unemployment and out-of-the labor force. In the following sections we discuss the estimation results<sup>3</sup> of the models for each type of the transition separately.

#### **6.1** The Determinants of Transitions from Employment

In this section we examine the determinants of transitions from employment to unemployment and to out-of-the labor force. The results are displayed in Table 10 separately for men and women<sup>4</sup>. We discuss the variables, in the order they appear in the table. For men marginal effects of living in urban areas on the transition from employment to unemployment are insignificant but become positive and significant when occupation dummies are excluded. The same marginal effects for women are positive and statistically significant. For both men and women the marginal effects of living in urban areas on the transition from employment to out-of-the labor force are positive and statistically significant. These results imply that individuals who live in the urban areas are more likely to lose their jobs compared to those who live in rural areas. We now examine the results for marital status. For men and women both, the marginal effects of being married on the transition from employment to

<sup>&</sup>lt;sup>3</sup> In the tables from 10 to 12, we provide the marginal effects and their standard errors calculated at means of the variables. These marginal effects are calculated by using "mfx" command of Stata.

<sup>&</sup>lt;sup>4</sup> Estimation results for the whole sample are given in Taşçı (2005).

unemployment are negative and statistically significant implying that because of family responsibilities, the married men and women are less likely to be unemployed. For men, the marginal effects of being married on the transition from employment to out-of-the labor force are negative and statistically significant while for women they are insignificant. The results imply that married men are less likely to go out-of-the labor force.

With regards to regions of residence, we observe that for men and women both there are no significant regional variations in the transitions from employment to unemployment. There are some significant regional differences in the transition from employment to out-of-the labor force. Men who live in the Black Sea region are more likely to go from employment to out-of-the labor force. Women who live in the Marmara, East Anatolia and the South East Anatolia regions are more likely to go out-of-the labor force if they lose their job. Considering the different levels of education, we observe that for men, the marginal effects of being two and four year university graduate on the transition from employment to unemployment are negative and statistically significant. While for women the marginal effects for different levels of education are not statistically significant. These results imply that university graduate men have lower risk of becoming unemployed compared to the base category of illiterates and non-graduates. For both men and women the marginal effects of different levels of education for the transition from employment to out-ofthe labor force are negative and mostly significant. These results imply that men who are graduates of primary school, vocational high school, two- and four-year universities and over are less likely to go out-of-the labor force when they lose their jobs. Similarly women, who are graduates of high school and over are also less likely

to go out-of-the labor force when they lose their jobs. Thus, for both men and women, the probability of leaving a job for out-of-the labor force decreases with an increase in the education level.

Considering the different age categories, we observe that for men, the marginal effects on transition from employment to unemployment are mostly insignificant. The statistically significant marginal effects for age 20-24 and age 25-34 are positive and imply that men in these age groups have higher risk of becoming unemployed compared to the base category of age 15-19. The statistically significant marginal effect for age 55 plus is negative when occupation dummies are excluded implying that older men have lower risk of becoming unemployed compared to the base category of age 15-19. Similar results and implications hold for women also. For both men and women the marginal effects of different age categories on transition from employment to out-of-the labor force are mostly significant and negative except for men age 55 plus which is positive. Thus, the probability of going from employment to out-of-the labor force declines with the increase in age except for men in their late careers. Examining the marginal effects of the local unemployment rate on the transition from employment to unemployment we observe that for men, they are positive and statistically significant while for women they are statistically insignificant. These results imply that men who live in high unemployment provinces are more likely to become unemployed. For both men and women the marginal effects of local unemployment rate on the transition from employment to out-of-the labor force are positive and statistically significant implying that men and women who live in high unemployment provinces are more likely to go out-of-the labor force when they lose their job.

With regards to the effects of different occupation groups, we observe that for both men and women, the marginal effects on the transition from employment to unemployment are not statistically significant except for men for occupation 6 which is agricultural workers. The results imply that men agricultural workers are less likely to go from employment to unemployment compared to the base category of professional and related workers. For all of the other occupational categories this likelihood does not differ from that of the base category. For men, the marginal effects of the transition from employment to out-of-the labor force are all statistically insignificant implying that the likelihood of going out-of-the labor force does not differ for each of the occupational categories from that of the base category of professional and related workers. For women, the same marginal effects are all negative and statistically significant except for occupation 2 (administrative and managerial workers) and occupation 8 (workers not classified by occupation). The results imply that women in most of the occupational categories (occupation 3occupation 7) are less likely to go from employment to out-of-the labor force compared to the base category of professional and related workers. Next, we examine the results for the employment status. For men, all of the marginal effects on the transition from employment to unemployment are statistically significant. The results imply that casual employees (status 2) are more likely to become unemployed compared to regular employees, while the other employment statuses are less likely to become unemployed compared to regular employees. For women, the same marginal effects are all statistically insignificant except for unpaid family workers (status 6) who are less likely to become unemployed compared to regular workers. For both men and women all of the marginal effects of the transition from

employment to out-of-the labor force are statistically significant. The results imply that men casual employees and men unpaid family workers are more likely to go out-of-the labor force compared to regular employees while other employment statuses are less likely to go out-of-the labor force. For women, all of the employment statuses (status 2 – status 6) are more likely to go out-of-the labor force if they lose their job compared to the base category of regular employees.

Finally, we include a public sector dummy in order to capture the effect of establishment ownership. For men and women both the marginal effects on the transition from employment to unemployment are negative and statistically significant implying that workers in the public sector are less likely to become unemployed compared to private sector workers. For men the marginal effects on the transitions from employment to out-of-the labor force are negative and statistically significant implying that public sector workers are less likely to go out-of-the labor force while the same marginal effects for women are statistically insignificant.

#### **6.2.** The Determinants of Transitions from Unemployment

In this section we discuss the determinants of transitions from unemployment to employment and to out-of-the labor force. The estimation results are reported in Table 11 separately for men and women. In addition to the explanatory variables used in the previous section we included the duration of unemployment at first interview in order to capture the heterogeneity among the unemployed (Foley, 1997 and Huitfeldt, 1996). Further, it is highly likely that the probability of receiving an offer depends on an individual's job search strategy (Devine and Kiefer, 1991 and Hutifeldt, 1996). In order to capture this effect we also include a group of dummy

variables for the job-search methods used by unemployed individuals.

We observe in Table 11 that for men, the marginal effects of living in urban areas on the transition from unemployment to employment are insignificant while for women they are positive and statistically significant. These results imply that women who live in urban areas are more likely to find a job from unemployment. For men the marginal effects of living in urban areas on the transition from unemployment to out-of-the labor force are insignificant while for women they are negative and statistically significant. These results imply that women who live in urban areas are less likely to move out-of-the labor force from unemployment compared to those who live in rural areas. With regards to marital status we observe that for men the marginal effect of being married is positive and significant when the occupation dummies are excluded implying that marriage increases the probability of finding a job from unemployment possibly due to family responsibilities. The same marginal effects are statistically insignificant for women. For men, the marginal effects of being married on transition from unemployment to out-of-the labor force are statistically insignificant while for women positive and significant at the 10 percent level. This result implies that married women are more likely to exit from unemployment to out-of-the labor force.

When we consider the effects of living in different regions we observe that on the transition from unemployment to employment all of the marginal effects are statistically insignificant except South-East Anatolia for men and East Anatolia for women. Thus, men who live in South East Anatolia are more likely to find a job and women who live in East Anatolia are less likely to find a job from unemployment

compared to those who live in Central Anatolia. On the transition from unemployment to out-of-the labor force all of the marginal effects are statistically insignificant except East Anatolia for women. Thus, women who live in East Anatolia are more likely to exit from unemployment to out-of-the labor force compared to women who live in Central Anatolia. With regards to the different levels of education we observe the following results. For men on the transition from unemployment to employment the marginal effects are mostly positive and statistically significant when occupation dummies are excluded. These results imply that increasing levels of education increase the likelihood of getting a job from unemployment. For women, the same marginal effects are positive and statistically significant only for the university level education implying that tertiary level of education increase the likelihood of getting a job from unemployment compared to the base category of non-graduates. For both men and women, the marginal effects of different levels of education on the transition from unemployment to out-of-the labor force are negative and mostly significant implying that more educated men and women are less likely to exit from unemployment to out-of-the labor force compared to non-graduates.

When we consider effects of age, we observe that for men and women both the marginal effects of age on transition from unemployment to employment are negative and statistically significant after age 35. This implies that increases in age reduce the likelihood of getting a job from unemployment for both men and women compared to the base category of age 15-19. For men, the marginal effects of age categories on the transition from unemployment to out-of-the labor force are negative and mostly significant when the occupation dummies are excluded. The same

marginal effects for women are statistically insignificant. These results imply that for men increases in age reduce the likelihood of going from unemployment to out-of-the labor force, except for men in their late careers. Examining the marginal effects of the local unemployment rate on the transition from unemployment to employment we observe that for men they are negative and statistically significant while for women negative and statistically significant when occupational dummies are included. These results imply that men and women who live in high unemployment provinces are less likely to obtain a job from unemployment. For both men and women the marginal effects of local unemployment rate on the transition from unemployment to out-of-the labor force are statistically insignificant.

With regards to occupational groups, we observe that for men the marginal effects on transition from unemployment to employment are all positive and statistically significant except for occupation 2 which is administrative and managerial workers. This suggests that for all of the occupational categories (except for occupation 2) men are more likely to go from unemployment to employment compared to the base category of professional and related workers. For women the same marginal effects are positive and mostly statistically significant. The results imply that women clerical and related workers (occupation 3), service workers (occupation 5) and non-agricultural workers (occupation 7) are more likely to find a job from unemployment compared to the base category of professional and related workers. For men and women both, the marginal effects on the transition from unemployment to out-of-the labor force are all negative and statistically significant. The results imply that men and women both in all of the occupational categories are less likely to go from unemployment to out-of-the labor force compared to the

professional and related workers. We now consider the results for the employment status. For men, most of the marginal effects on the transition from unemployment to employment are positive and statistically significant. These results imply that employers (status 4), self employed (status 5) and unpaid family workers (status 6) are more likely to get a job from unemployment compared to the base category of regular employees. The same marginal effects for women are all statistically insignificant except for casual employees (status 2). The negative marginal effect implies that casual employees are less likely to find a job from unemployment. For men, most of the marginal effects on transition from unemployment to out-of-the labor force are insignificant except for self-employed (status 5) and unpaid family workers (status 6). These estimates are negative and imply that self-employed and unpaid family worker men are less likely to go out-of-the labor force from unemployment compared to the base category of regular employees. The same marginal effects for women are mostly insignificant except for casual employees (status 2) and self-employed (status 5). These estimates are negative and imply that casual employee and self-employed women are less likely to go from unemployment to out-of-the labor force.

In order to capture the duration dependence effect, we have included dummy variables for unemployment duration in the models. For men, the marginal effects on the transition from unemployment to employment are mostly statistically insignificant except for duration 6-12 months. The negative marginal effect implies that the likelihood of obtaining a job from unemployment is lower for duration 6-12 months compared to the base category of duration 1-3 months. The same marginal effects for women are all negative and statistically significant when occupational

dummies are excluded. These results imply that for women the likelihood of getting a job from unemployment declines with increases in unemployment duration. Thus, there is negative duration dependence. For men, most of the marginal effects of transition from unemployment to out-of-the labor force are positive and significant implying that the likelihood of going from unemployment to out-of-the labor force increases with unemployment duration. The same marginal effects for women are all statistically insignificant. The results for men suggest that there is a "discouraged worker effect". Finally, we examine the effects of job search methods. For men and women both the marginal effects on the transition from unemployment to employment are mostly statistically significant. For men using "newspapers" and "workers agents and mediators" increases the likelihood of getting a job from unemployment. For both men and women the job search channels of "try to provide equipment, credit and place to establish own business" and "other methods" reduce the likelihood of getting a job from unemployment. For women, the "employment office" also reduces the likelihood of getting a job from unemployment compared to the base category of personal job search. For men, most of the marginal effects on transition from unemployment to out-of-the labor force are negative. For men, the results imply that "employment office", "try to provide equipment, credit and place to establish own business" and "other methods" reduce the likelihood of going from unemployment to out-of-the labor force. The statistically insignificant results for women imply that the various job search channels are not different from the base category of personal job search. Overall the results suggest that for men the newspapers and workers agents are the most useful job search strategies.

#### 6.3. The Determinants of Transitions from Out-of-the Labor Force

In this section we discuss the determinants of transitions from out-of-the labor force to employment and unemployment. The estimation results are reported in Table 12 separately for men and women. The variables included are the same as those in the transitions from employment. For men, the marginal effects of living in urban areas on the transition from out-of-the labor force to employment are statistically insignificant. The same marginal effects for women are negative and statistically significant implying that the likelihood of getting a job from out-of-the labor force is lower for urban women. For men the marginal effects of living in urban areas on the transition from out-of-the labor force to unemployment are insignificant while for women they are positive and significant implying that urban women are more likely to move from out-of-the labor force to unemployment. Considering the effects of being married we observe that for men the marginal effects are positive and significant when the occupation dummies are excluded implying that marriage increases the likelihood of finding a job from out-of-the labor force. The same marginal effects for women are negative and statistically significant implying that marriage reduces the likelihood of finding a job from out-of-the labor force. We note the opposite effects of marriage for men and women. For men, the marginal effects of marriage on the transition from out-of-the labor force to unemployment are statistically insignificant while for women they are positive and significant. These results imply that married women are more likely to move from out-of-the labor force to unemployment.

When we consider the effects of living in different regions we observe that for men the marginal effects of the transitions from out-of-the labor force to

employment are positive and significant for Marmara and South East Anatolia but negative and significant for Aegean. These results imply that men who live in Marmara and South East Anatolia are more likely and those who live in Aegean are less likely to find a job from out-of-the labor force as compared to those who live in the base region of Central Anatolia. The same marginal effects for women are mostly statistically significant. The results imply that women who live in Marmara, Aegean, Black Sea and East Anatolia are less likely to exit from out-of-the labor force to employment, but, women who live in South East Anatolia are more likely to exit from out-of-the labor force to employment. With regards to transitions from out-ofthe labor force to unemployment, the marginal effects for men are all statistically insignificant and those for women are insignificant in magnitude. When we consider the different levels of education we observe that for men, on the transition from outof-the labor force to employment the marginal effects are mostly significant. The results imply that the likelihood of exiting out-of-the labor force to employment is higher for primary school, vocational high school, and four-year university graduates but lower for middle school graduates. The same marginal effects for women are positive and mostly significant implying that higher levels of education increase the likelihood of exiting out-of-the labor force to employment. For men the marginal effects on transition from out-of-the labor force to unemployment are all statistically insignificant while for women they are mostly significant and imply that increasing levels of education increase the likelihood of exiting out-of-the labor force to unemployment.

With regards to effects of age we observe that the marginal effects of age for men (after age 45) and for women are all negative and statistically significant

implying that increases in age reduce the likelihood of exiting out-of-the labor force to employment compared to the base category of age 15-19. The marginal effects of age on transition from out-of-the labor force to unemployment are statistically significant and negative after age 44 implying that for men increases in age reduce the likelihood of exiting out-of-the labor force for unemployment. The same marginal effects for women are mostly insignificant in magnitude. Examining the marginal effects of the local unemployment rate on the transition from out-of-the labor force to employment we observe that for both men and women they are negative and statistically significant implying that men and women who live in high unemployment provinces are less likely to obtain a job from out-of-the labor force. For both men and women the marginal effects of local unemployment rate on the transition from out-of-the labor force to unemployment are statistically insignificant.

With regards to occupational groups we observe that for both men and women the marginal effects on transition from out-of-the labor force to employment are all positive and statistically significant. These results suggest that for all of the occupational categories men and women both are more likely to obtain a job from out-of-the labor force compared to the base category of professional and related workers. For both men and women the marginal effects on the transition from out-of-the labor force to unemployment are mostly insignificant. We now consider the results for the employment status. For both men and women most of the marginal effects of employment statuses on the transition from out-of-the labor force to employment are all positive and statistically significant. The results imply that all of the individuals in different employment statuses are more likely to get a job from out-of-the labor force compared to the base category of regular employees. As for the

transition from out-of-the labor force to unemployment most of the marginal effects are statistically insignificant for both men and women.

#### 7. Concluding Remarks

In this paper, we examine the labor market transitions in Turkey by using the HLFS data. In the first part, we analyze the transition probabilities between the labor market states of employment, unemployment, and out-of-the-labor force under Markovian assumptions. We analyze the sources of unemployment rate differentials for gender, rural-urban residence and marital status, by using the Marston's (1976) decomposition. In the second part of the study, we further analyze the transitions in the Turkish labor market by estimating multinomial logit models. In this part we concentrate on the role of individual characteristics. These include age, education and other determinants, such as, region, occupation and status in employment. The main findings of the study are summarized in this section.

For designing policy tools in order to reduce the unemployment rate differentials among the labor market groups it may be useful to have an idea about the differentials in the following six transition probabilities (Lauerova and Terrell, 2002). These are  $P_{eu}$ ,  $P_{eo}$ ,  $P_{ue}$ ,  $P_{uo}$ ,  $P_{ou}$ ,  $P_{oe}$ . For example, for non-married individuals, the most important factor explaining their higher unemployment rates are that they are less likely to enter the labor market successfully than the married individuals, and they are more likely to leave (quit or lose) their jobs for unemployment ( $P_{eu}$ ). The main factors behind the unemployment rate differential between women and men in the urban areas are as follows. The first is the probability of exiting from employment for unemployment ( $P_{eu}$ ) for urban women is larger than those of urban

men. The second is the probability that women leave unemployment for a job (P<sub>ue</sub>) is lower than men's. Thus, due to the above factors the rate of unemployment is considerably higher for the urban women than urban men. This observed unemployment rate differential can be considered one of the factors behind the female's lower labor force participation in the urban areas (Tansel, 2002; Tunali, 2003). Our findings support this since most of the job loser women go to out-of-the labor force. Hence, because of the economic crisis most of the job-loser urban women become discouraged. In this regard, Turkish policy makers might consider creating a policy tool to increase women's participation rate. A further policy tool might be developed to increase women's chances of obtaining a job from unemployment. Another policy tool might focus on reducing the women's higher risk of losing job relative to men.

Let us now consider the estimation results of the multinomial logit model. It is found that for both men and women, there is a significant difference between the education groups in the probability of becoming unemployed from employment. For men, we observe that the university educated individuals are less likely to go both to unemployment and to out-of-the labor force compared to illiterates and nongraduates. However, for women increases in the education level does not affect the transition from employment to unemployment. While educated women are less likely to go from employment to out-of-the labor force compared to illiterates and nongraduates. A further finding is that men and women with a university degree are more likely to find a job from unemployment compared to non-graduates. However, having a vocational high school diploma does not make any significant difference in obtaining a job from unemployment. Hence, human capital effect is seen only for the

university graduates. This finding is also supported by the estimation results of transitions from out-of-the labor force to employment. Four-year university education increases the likelihood of exiting from out-of-the labor force to employment. Further, younger individuals are more likely to lose a job but older individuals are less likely to find a job from unemployment.

We used the provincial level unemployment rate as a proxy for labor market conditions. We found significant and expected marginal effects for each gender in the cases of P<sub>eo</sub> P<sub>ue</sub> and P<sub>oe</sub>. In the other transition case of P<sub>uo</sub>, this variable is not significant for men and women. These results imply that men and women who live in high unemployment provinces are more likely to lose their jobs and less likely to obtain a job from unemployment. Policy makers could concentrate on improving the unemployment rates in the high unemployment provinces. Further, increasing labor mobility between provinces could increase the likelihood of finding a job.

One of the important findings is that casual employees are more likely to lose their work compared to regular employees. Regarding the employment sector the most striking result is that the marginal effect of the public sector variable on the transitions from employment is negative and highly significant suggesting that workers in the public sector are less likely to become unemployed. The findings, on casual and non-public sector employees, imply that these groups are more likely to lose their job compared to other groups. Therefore, they may be considered as special target group by the policy makers. Regarding the unemployment duration parameters in the transitions from unemployment to employment, in general, we found the expected marginal effects. However, they were significant only for women implying

negative duration dependence which means that the likelihood of getting a job from unemployment declines with increases in unemployment duration.

Finally, for the job search methods in  $P_{ue}$  equation, we found negative significant effect for "try to provide equipment, credit, place to establish own business" and positive effect comes from "newspaper" and "workers agent and mediators" variable compared to "personally job seekers" for men. If we look at the  $P_{uo}$  equation for men, the negative and significant effects only comes from "employment office", "workers agents" and "other" variables. Therefore, it is possible to say that although the "employment office" variable does not contribute to finding a job for unemployed men, it ties them to the labor force. However, all of the job search method dummies are insignificant in the transition from unemployment to out-of-the labor force in the female equations. Overall, the results suggest that for men the newspapers and workers agents are the most useful job search strategies.

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Table 1: Demographic Differences between Individuals in Different Labor Market States in the First Quarters

a) 2000		Francisco est (in 0/ of	Unamentary and (in 0/	Out of Labor Fares (in
,		Employment (in % of the population)	Unemployment (in % of the labor force)	Out of Labor Force (in % of the population)
All		38.93	9.09	57.18
By Sex	Male Age 15-24	62.72 36.67	8.19 17.11	31.42 55.76
	Age 25-54	79.62	6.89	14.49
	Age 55pl	40.30	3.71	58.15
	Female	16.37	9,61	81.61
	Age 15-24 Age 25-54	16.04 17.69	20.69 6.88	79.77 81.00
	Age 55pl	10.31	0.74	89.62
Rural		45.40	5.79	51.81
Urban	Linham Mala	36.90	10.30	58.87
	Urban-Male Rural-Male	62.15 64.54	9.02 7.07	31.69 30.56
	Urban-Female	13.01	15.68	84.57
	Rural-Female	27.12	2.74	72.12
Estra estima				
Education	Non-Graduate	20.16	6.68	78.40
1	Primary School	40.32	9.11	55.64
	Middle School	32.47	9.76	64.02
	High School	41.29	11.18	53.52
	Voc.High School Two-Years University	56.75 65.29	12.24 10.48	35.33
	Four Years University	76.30	3.72	27.07 20.75
Non-Married	r car r care criii creity	29.38	17.37	64.44
Married		43.50	6.04	53.70
	Married Male	74.17	6.15	20.97
	Non-Married Male	39.24	16.77	52.85
	Married Female	14.76	5.54	84.38
	Non-Married Female	19.79	18.51	75.71
b) 2001		Employment (in % of	Unampleyment (in %	Out of Labor Force (in
b) 2001		Employment (in % of the population)	Unemployment (in % of the labor force)	Out of Labor Force (in % of the population)
<b>b) 2001</b>				
		the population)	of the labor force)	% of the population)
All	Male	39.32 64.14	of the labor force) 10.38	% of the population) 56.12 29.30
All	Age 15-24	the population) 39.32 64.14 37.83	of the labor force) 10.38 9.28 20.31	% of the population) 56.12 29.30 52.52
All	Age 15-24 Age 25-54	the population) 39.32 64.14 37.83 80.24	9.28 20.31 7.11	% of the population) 56.12 29.30 52.52 13.62
All	Age 15-24	the population) 39.32 64.14 37.83	of the labor force) 10.38 9.28 20.31	% of the population) 56.12 29.30 52.52
All	Age 15-24 Age 25-54 Age 55pl Female	64.14 37.83 80.24 41.30	9.28 20.31 7.11 3.64 14.29	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32
All	Age 15-24 Age 25-54 Age 55pl Female Age 15-24	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52	9.28 20.31 7.11 3.64 14.29 24.85	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34
All	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54	64.14 37.83 80.24 41.30 16.01 15.52 17.39	9.28 20.31 7.11 3.64 14.29 24.85 10.19	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63
All	Age 15-24 Age 25-54 Age 55pl Female Age 15-24	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52	9.28 20.31 7.11 3.64 14.29 24.85	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34
All	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54	64.14 37.83 80.24 41.30 16.01 15.52 17.39 9.81	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10
All Sex	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54 Age 55pl  Urban-Male	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85
All Sex	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male	64.14 37.83 80.24 41.30 16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49
All Sex	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29
All Sex	Age 15-24 Age 25-54 Age 55pl Female Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male	64.14 37.83 80.24 41.30 16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49
All Sex	Age 15-24 Age 25-54 Age 55pl  Female Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female  Non-Graduate Primary School	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Femole Non-Graduate Primary School Middle School High School Voc.High School	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 25-64 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Voc.High School Two-Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69 6.07 9.88 12.26 15.20 13.47 6.90	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79 76.93 55.55 64.23 49.11 37.06 34.46
All Sex Rural Urban	Age 15-24 Age 25-54 Age 25-54 Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Femole Non-Graduate Primary School Middle School High School Voc.High School	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69	% of the population) 56.12 29.30 52.52 13.62 57.14 81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06
All Sex Rural Urban Education	Age 15-24 Age 25-54 Age 25-54 Age 25-64 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Voc.High School Two-Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02 77.37	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69  6.07 9.88 12.26 15.20 13.47 6.90 4.81	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06 34.46 18.72 62.60
All Sex Rural Urban Education	Age 15-24 Age 25-54 Age 25-54 Age 25-64 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Voc.High School Two-Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02 77.37	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69 6.07 9.88 12.26 15.20 13.47 6.90 4.81	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06 34.46 18.72
All Sex  Rural Urban  Education	Age 15-24 Age 25-54 Age 25-54 Age 25-64 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Voc.High School Two-Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02 77.37 29.54 43.86	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69  6.07 9.88 12.26 15.20 13.47 6.90 4.81	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06 34.46 18.72 62.60
All Sex Rural Urban Education	Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Voc.High School Two-Years University Four Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02 77.37	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69  6.07 9.88 12.26 15.20 13.47 6.90 4.81 21.02 6.44	% of the population) 56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06 34.46 18.72 62.60 53.12
All Sex Rural Urban Education	Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Femole Rural-Femole Yon-Graduate Primary School Middle School High School Voc.High School Two-Years University Four Years University	the population) 39.32  64.14 37.83 80.24 41.30  16.01 15.52 17.39 9.81 46.04 37.26 63.31 66.87 12.63 26.89  21.67 40.06 31.38 43.16 54.46 61.02 77.37  29.54 43.86 75.05	9.28 20.31 7.11 3.64 14.29 24.85 10.19 0.81 6.86 11.62 9.73 7.78 19.58 4.69  6.07 9.88 12.26 15.20 13.47 6.90 4.81 21.02 6.44 6.31	% of the population)  56.12  29.30 52.52 13.62 57.14  81.32 79.34 80.63 90.10 50.57 57.83 29.85 27.49 84.29 71.79  76.93 55.55 64.23 49.11 37.06 34.46 18.72  62.60 53.12 19.90

**Table 2: Demographic Differences between Individuals in Different Labor Market States in the Second Quarters** 

a) 2000	States in the Seco	Employment (in % of the population)	Unemployment (in %	Out of Labor Force (in
			of the labor force)	% of the population)
All		43.73	6.90	53.03
Sex	Male	69.04	6.19	26.40
	Age 15-24	43.44	13.90	49.55
	Age 25-54	85.21	4.48	10.79
	Age 55pl	44.82	3.63	53.49
	Female	20.04	9.13	77.94
	Age 15-24	19.30	14.93	77.31
	Age 25-54	21.68	7.30	76.61
	Age 55pl	13.57	1.10	86.27
Rural		56.18	2.70	42.26
Urban		39.76	8.68	56.47
	Urban-Male	66.44	7.19	28.42
	Rural-Male	77.24	3.36	20.07
	Urban-Female	14.77	14.46	82.73
	Rural-Female	36.54	1.37	62.95
Education				
	Non-Graduate	26.16	4.63	72.57
	Primary School	45.42	6.01	51.67
	Middle School	35.91	8.97	60.55
	High School	46.05	9.57	49.08
	Voc.High School	57.46	9.83	36.28
	Two-Years University	70.74	7.78	23.30
	Four Years University	77.52	4.83	18.55
Non-Marrie	ed .	34.21	13.97	60.24
Married		48.19	4.28	49.65
	Married Male	80.15	3.83	16.66
	Non-Married Male	45.61	14.01	46.96
			6.09	80.31
	Married Female Non-Married Female	18.49 23.39	6.09 13.89	80.31 72.84
	Married Female	18.49 23.39	13.89	72.84
b) 2001	Married Female	18.49		
<b>b) 2001</b>	Married Female	18.49 23.39 Employment (in % of the	13.89 Unemployment (in %	72.84  Out of Labor Force (in
_	Married Female	18.49 23.39 Employment (in % of the population)	Unemployment (in % of the labor force)	72.84  Out of Labor Force (in % of the population)
All	Married Female	18.49 23.39 Employment (in % of the population)	Unemployment (in % of the labor force)	72.84  Out of Labor Force (in % of the population)
All	Married Female Non-Married Female	18.49 23.39 Employment (in % of the population) 42.57	Unemployment (in % of the labor force)	72.84  Out of Labor Force (in % of the population)  53.59
All	Married Female Non-Married Female	18.49 23.39 Employment (in % of the population) 42.57	Unemployment (in % of the labor force)  8.27  7.57	72.84  Out of Labor Force (in % of the population)  53.59  27.73
All	Married Female Non-Married Female  Male Age 15-24	18.49 23.39 Employment (in % of the population) 42.57 66.80 40.94	Unemployment (in % of the labor force)  8.27  7.57 15.33	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65
All	Married Female Non-Married Female  Male  Age 15-24  Age 25-54  Age 55pl	18.49 23.39 Employment (in % of the population) 42.57 66.80 40.94 82.70 42.56	13.89  Unemployment (in % of the labor force)  8.27  7.57  15.33  6.06  3.94	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69
All	Married Female Non-Married Female  Male Age 15-24 Age 25-54 Age 55pl  Female	18.49 23.39 Employment (in % of the population) 42.57 66.80 40.94 82.70 42.56 20.13	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69 77.54
All	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18
All	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12
All	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56 20.13 18.40 22.13 14.02	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91
All Sex	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54	18.49 23.39 Employment (in % of the population) 42.57 66.80 40.94 82.70 42.56 20.13 18.40 22.13 14.02 57.03	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14
All	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 25-59	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48
All Sex	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Urban-Male	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79
All Sex	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 35pl	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09
All Sex	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79
All Sex	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 25-64 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Non-Graduate	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21 6.02	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Primary School	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Rural-Female Non-Graduate Primary School Middle School	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Primary School Middle School High School	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Voc.High School	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21 6.02 7.25 9.71 12.19 11.74	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Voc.High School Two-Years University	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05
All Sex Rural Urban	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 25-54 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Voc.High School	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21 6.02 7.25 9.71 12.19 11.74	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67
All Sex Rural Urban Education	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47 75.87  32.09	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06 5.39	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91  41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05 19.81
All Sex  Rural Urban  Education	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female Rural-Female Votan-Female Rural-Female Rural-Female Rural-Female	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47 75.87	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06 5.39	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05 19.81
All Sex Rural Urban Education	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Two-Years University Four Years University	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47 75.87	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06 5.39  16.62 5.29	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05 19.81  61.51 49.91
All Sex  Rural Urban  Education	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Rural-Female Frimary School Middle School High School Voc.High School Two-Years University Four Years University	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47 75.87  32.09 47.44  77.53	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06 5.39  16.62 5.29 5.26	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05 19.81  61.51 49.91 18.17
All Sex  Rural Urban  Education	Married Female Non-Married Female  Male  Age 15-24 Age 25-54 Age 55pl  Female  Age 15-24 Age 25-54 Age 55pl  Urban-Male Rural-Male Urban-Female Rural-Female Primary School Middle School High School Two-Years University Four Years University	18.49 23.39  Employment (in % of the population)  42.57  66.80 40.94 82.70 42.56  20.13 18.40 22.13 14.02 57.03 38.05 64.05 75.61 13.96 39.87  26.82 44.23 32.62 44.05 58.54 62.47 75.87	13.89  Unemployment (in % of the labor force)  8.27  7.57 15.33 6.06 3.94  10.36 19.37 7.33 0.56 3.12 10.50 8.76 4.18 17.21 1.21  6.02 7.25 9.71 12.19 11.74 8.06 5.39  16.62 5.29	72.84  Out of Labor Force (in % of the population)  53.59  27.73 51.65 11.97 55.69  77.54 77.18 76.12 85.91 41.14 57.48 29.79 21.09 83.14 59.64  71.46 52.32 63.87 49.84 33.67 32.05 19.81  61.51 49.91

## Table 3: List of the Variables

- 1. "Urban" is a dummy variable taking value 1 if a man or woman lives in a town of more than 20,000 inhabitants and 0 otherwise
- 2. "Married" is a dummy variable taking value 1 if the survey respondent is married and 0 otherwise
- 3. Region of residence is a set of seven dummies: Central Anatolia (base category), Marmara, Aegean, Mediterranean Black Sea, East Anatolia, and South East Anatolia.
- 4. Education consists of a set of six dummies: The reference category includes those who are illiterate plus those who are literate but did not graduate from a school. The other education categories are "Primary School", "Middle School", "High School", "Vocational High School", "Two-Year University", and "Four-Year University and over" ("Univ4pl").
- 5. Age is a set of six dummies:

```
"age1519": Age 15-19 (base category)
"age2024": Age 20-24
"age2534": Age 25-34
"age3544": Age 35-44
"age4554": Age 45-54
"age55pl": Age 55 and over.
```

- 6. "Unemprate" is the provincial unemployment rate.
- 7. Occupation in the job (last job for the unemployed persons) consists of eight dummies:

```
"occup1": Professional and related workers (base category),
```

- 8. Status in the current job (last job for the unemployed persons) consists of six dummies:
  - "status1": Regular Employee (base category)
  - "status2": Casual Employee
  - "status3": Paid family Workers
  - "status4": Employer
  - "status5": Self Employed
  - "status6": Unpaid Family Workers

## Variable(s) used only in transitions from employment:

9. Public Sector dummy takes value 1 if an individual works in the public sector, 0 (zero) otherwise.

## Variables used only in transitions from unemployment:

- 10. Search Method dummies takes value 1 if used by an unemployed individual. The reference category includes those who are "personally job-seeking". Other Job-search methods are; "Friendsetc" (Friends and relatives", "Newspapers", "Employment Office", "Workersagent" (Workers agents and mediators), "Trytoprovideequipment" (try to provide equipment, credit and place to establish own business), and "Other methods".
- 11. Duration of unemployment is set of five dummies. Takes value of one if the duration of unemployment lies into that group; duration 1-3 (month) (base category), duration 4-6, duration 7-12, duration 13-24, duration 24 plus.

<sup>&</sup>quot;occup2": Administrative and managerial workers

<sup>&</sup>quot;occup3": Clerical and Related Workers,

<sup>&</sup>quot; 4" C. L. W. L.

<sup>&</sup>quot;occup4": Sales Workers,

<sup>&</sup>quot;occup5": Service Workers,

<sup>&</sup>quot;occup6": Agricultural Workers,

<sup>&</sup>quot;occup7": Non-Agricultural Workers

<sup>&</sup>quot;occup8": Workers not classified by Occupation

Table 4: Transition Probabilities between the First Quarters of 2000 and 2001 (%)

	Peu	Pee	Peo	Puu	Pue	Puo	Pou	Poe	Poo
All	3.48	79.47	17.04	46.23	45.66	8.11	2.28	11.56	86.16
By Sex									
Male	3.81	86.15	10.04	39.68	55.87	4.45	5.15	22.89	71.96
Female	2.13	61.40	36.47	73.84	19.77	6.40	1.16	6.69	92.15
By Place									
Urban	3.87	82.10	14.04	47.33	45.44	7.23	2.46	8.72	88.82
Rural	2.56	73.23	24.21	40.98	46.72	12.30	1.60	22.00	76.40
By Urban-Male									
Urban-Male	3.98	86.99	9.03	40.45	55.53	4.02	5.36	19.49	75.14
Rural-Male	3.31	83.70	12.99	36.46	57.29	6.25	4.40	34.42	61.17
Urban-Female	2.93	66.14	30.93	72.73	21.43	5.84	1.38	4.23	94.39
Rural-Female	1.09	55.33	43.58	83.33	5.56	11.11	0.30	16.21	83.48
Marital Status									
Non-Married	6.91	66.56	26.53	49.83	35.64	14.52	4.52	13.47	82.01
Married	2.42	83.43	14.14	45.45	52.34	2.20	1.10	10.04	88.86
By Married-Male									
Married-Male	2.89	88.72	8.39	39.93	58.75	1.32	3.77	25.50	70.73
Non-Married-Male	7.86	73.69	18.45	42.07	47.56	10.37	6.49	18.61	74.90
Married-Female	0.44	60.74	38.82	75.44	21.05	3.51	0.47	6.37	93.16
Non-Married-Female	5.63	65.44	28.93	73.64	19.09	7.27	3.07	7.26	89.67
Age Group									
Age15-19	6.78	58.19	35.03	53.61	30.93	15.46	3.25	11.80	84.96
Age20-24	5.58	72.32	22.10	44.53	47.66	7.81	4.76	12.50	82.74
Age25-34	4.50	85.86	9.64	46.81	50.35	2.84	2.49	10.22	87.29
Age35-44	2.25	88.10	9.65	46.23	52.83	0.94	1.87	9.64	88.49
Age45-54	1.86	80.46	17.68	55.71	42.86	1.43	1.03	11.00	87.97
Age55pl	0.34	70.18	29.48	47.06	52.94	0.00	0.18	8.19	91.63
By Age Group- MALE-									
Age15-19	6.69	69.60	23.71	43.33	41.67	15.00	4.25	16.55	79.20
Age20-24	7.44	78.51	14.05	39.24	59.49	1.27	12.02	24.04	63.94
Age25-34	5.17	90.09	4.74	38.14	60.82	1.03	14.50	46.56	38.93
Age35-44	2.66	93.12	4.22	37.78	61.11	1.11	13.24	45.59	41.18
Age45-54	2.25	84.71	13.05	50.79	47.62	1.59	4.16	22.60	73.25
Age55pl	0.43	75.59	23.97	50.00	50.00	0.00	0.47	13.06	86.47
By Age Group- FEMALE-	0.10	10.00	20.07	50.00	00.00	0.00	0	10.00	00.47
Age15-19	9.03	49.31	41.67	80.65	12.90	6.45	2.38	6.63	90.99
Age20-24	3.08	68.21	28.72	65.00	25.00	10.00	2.44	7.16	90.40
Age25-34	1.37	70.96	27.67	69.05	28.57	2.38	1.47	6.35	92.18
Age35-44	0.52	66.58	32.90	93.75	6.25	0.00	0.86	6.39	92.75
Age45-54	100.00	0.00	0.00	0.00	59.79	40.21	0.00	7.11	92.89
Age55pl	0.00	51.49	48.51	0.00	100	0.00	0.00	5.03	94.97
Education Group	2.00	20	.0.01	2.00	.50	2.00		2.00	
Non-Graduate	1.16	64.92	33.91	43.75	47.92	8.33	0.45	9.09	90.47
Primary	4.20	79.11	16.69	43.70	49.58	6.72	1.73	10.87	87.40
Middle School	3.72	81.73	14.55	44.19	51.16	4.65	2.37	6.86	90.76
High School	2.89	88.45	8.66	63.30	25.69	11.01	5.36	12.18	82.46
Voc. High School	3.55	91.13	5.32	53.57	32.14	14.29	7.51	12.72	79.77
Two-Year University	1.92	91.35	6.73	17.24	72.41	10.34	2.22	11.11	86.67
Four-Year Un.and over	1.10	94.12	4.78	38.89	50.00	11.11	3.33	15.00	81.67
Number of Transitions	272	6206	1330	326	320	57	254	1288	9600
realised of fransidoris	7808	7808	7808	703	703	703	11142	11142	11142

Table 5: Transition Probabilities between the Second Quarters of 2000 and 2001 (%)

	Peu	Pee	Peo	Puu	Pue	Puo	Pou	Poe	Poo
All	3.53	80.46	16.00	19.69	42.66	37.65	2.51	11.52	85.97
By Sex									
Male	4.05	86.77	9.18	19.57	53.62	26.81	5.13	20.06	74.8
Female	2.01	68.98	29.01	24.12	20.59	55.29	1.66	7.68	90.66
By Place									
Urban	4.55	79.62	15.83	20.19	41.36	38.45	2.74	8.78	88.48
Rural	1.42	82.22	16.36	15.63	53.13	31.25	1.52	23.34	75.15
By Urban-Male									
Urban-Male	4.75	85.64	9.61	19.69	52.00	28.31	5.35	17.79	76.86
Rural-Male	2.20	89.76	8.04	18.75	64.58	16.67	4.13	30.23	65.63
Urban-Female	3.76	65.38	30.86	25.16	20.75	54.09	1.88	4.82	93.30
Rural-Female	0.11	72.88	27.01	9.09	18.18	72.73	0.73	19.87	79.40
Marital Status	•								
Non-Married	5.25	66.21	28.55	21.27	41.42	37.31	4.81	12.71	82.48
Married	2.96	84.98	12.06	18.25	43.07	38.69	1.20	10.23	88.57
By Married-Male		000		10.20					00.07
Married-Male	3.53	89.24	7.22	19.59	55.67	24.74	3.74	23.05	73.21
Non-Married-Male	6.49	75.03	18.49	18.99	50.00	31.01	5.94	16.06	77.99
Married-Female	0.91	71.35	27.74	16.00	13.33	70.67	0.71	7.47	91.81
Non-Married-Female	4.03	64.26	31.71	31.40	25.58	43.02	4.34	8.20	87.46
Age Group	4.00	04.20	01.71	01.40	20.00	40.0L	4.04	0.20	07.40
Age 15-19	4.89	58.32	36.79	18.42	38.16	43.42	3.40	9.58	87.02
Age20-24	4.84	73.45	21.71	17.35	46.94	35.71	6.69	13.90	79.41
Age25-34	3.95	86.83	9.23	17.89	47.15	34.96	3.01	10.84	86.14
Age35-44	3.10	88.75	8.15	27.08	38.54	34.38	0.94	10.03	89.04
Age45-54	3.03	82.21	14.76	16.98	41.51	41.51	1.29	9.48	89.22
Age55pl	1.42	73.30	25.28	5.26	36.84	57.89	0.36	9.47	90.17
By Age Group- MALE-	1.42	73.30	25.26	5.20	30.04	57.69	0.36	9.47	90.17
	5.22	69.97	24.80	16.67	52.38	30.95	3.76	11.96	84.27
Age15-19	5.54	83.03	11.44	16.67 12.70	58.73	28.57	17.29	22.56	60.15
Age20-24				-					
Age25-34	4.70	91.88	3.42	21.62	63.51	14.86 20.59	13.64	46.59 52.44	39.77
Age35-44	3.55	93.07	3.38	27.94	51.47		7.32		40.24
Age45-54	3.69	84.66	11.65	18.18	47.73	34.09	4.81	17.95	77.24
Age55pl	1.92	76.76	21.32	5.88	35.29	58.82	0.97	14.20	84.82
By Age Group- FEMALE-	4.00		44.00		04.40	F0 F7	0.70	0.70	00.50
Age15-19	4.89	51.09	44.02	25.00	21.43	53.57	3.70	6.78	89.53
Age20-24	4.85	66.50	28.64	33.33	22.22	44.44	3.70	8.74	87.56
Age25-34	1.40	73.60	25.00	13.33	22.22	64.44	2.41	7.97	89.62
Age35-44	1.50	74.09	24.41	25.93	7.41	66.67	0.57	7.39	92.05
Age45-54	0.00	75.29	24.71	11.11	11.11	77.78	0.19	7.03	92.78
Age55pl	0	63.29	36.71	0	50.00	50.00	0	6.60	93.40
Education Group									
Non-Graduate	3.04	68.69	28.27	7.69	38.46	53.85	0.45	12.00	87.55
Primary	4.05	81.70	14.25	19.57	45.65	34.78	1.74	11.09	87.16
Middle School	3.56	80.80	15.63	16.87	43.37	39.76	2.07	4.23	93.70
High School	3.03	87.16	9.81	15.48	40.48	44.05	7.06	8.82	84.12
Voc. High School	3.59	90.88	5.52	36.84	28.07	35.09	2.79	18.99	78.21
Two-Year University	1.55	94.57	3.88	15.38	46.15	38.46	4.76	7.14	88.10
Four-Year Un.and over	1.49	91.79	6.72	25.93	51.85	22.22	7.62	21.90	70.48
Number of Transitions	298	6788	1350	114	247	218	246	1129	8423
Number of Observations	8436	8436	8436	579	579	579	9798	9798	9798

Table 6: Differences in Flow Probabilities ( $\Delta Pi$ ) between Q1-2000 and Q1-2001

	Peo	Peu	Pue	Puo	Pou	Poe	Pns
Female-Male	26.43	-1.68	-36.10	1.95	-3.99	-16.2	0.04
Rural-Urban	10.17	-1.31	1.28	5.07	-0.86	13.28	0.15
Rural Male-Urban Male	3.96	-0.67	1.76	2.23	-0.96	14.93	0.10
Rural Female-Urban Female	12.65	-1.84	-15.87	5.27	-1.08	11.98	0.23
UrbanFemale-UrbanMale	21.90	-1.05	-34.10	1.82	-3.98	-15.26	-0.03
Rural Female-Rural Male	30.59	-2.22	-51.73	4.86	-4.1	-18.21	0.10
Non-Married-Married	12.39	4.49	-16.70	12.32	3.42	3.43	-0.15
Non-Married Male-Married Male	10.06	4.97	-11.19	9.05	2.72	-6.89	-0.13
Non-Married Female - Married Female	-9.89	5.19	-1.96	3.76	2.6	0.89	-0.23
Married Female-Married Male	30.43	-2.45	-37.70	2.19	-3.3	-19.13	0.06
Non Married Female-Non Married Male	10.48	-2.23	-28.47	-3.10	-3.42	-11.35	-0.04
Female1519-Male1519	17.96	2.34	-28.77	-8.55	-1.87	-9.92	-0.06
Female2024-Male2024	14.67	-4.36	-34.49	8.73	-9.58	-16.88	0.08
Female2534-Male2534	22.93	-3.80	-32.25	1.35	-13.03	-40.21	0.05
Female3544-Male3544	28.68	-2.14	-54.86	-1.11	-12.38	-39.2	0.11
Female4554-Male4554	27.16	-2.25	-47.62	-1.59	-4.16	-15.49	0.16
Female55pl-Male55pl	-23.97	51.06	-50.00	0.00	4.56	81.91	-0.02
Non-Graduate-Primary Edu.	17.22	-3.04	-1.66	1.61	-1.28	-1.78	0.09
Non-Graduate-Middle School	19.36	-2.56	-3.24	3.68	-1.92	2.23	0.21
Non-Graduate-High School	25.25	-1.73	22.23	-2.68	-4.91	-3.09	0.26
Non-Graduate-Voc.High School	28.59	-2.39	15.78	-5.96	-7.06	-3.63	0.32
Non-Graduate-Two Year Univ.	27.18	-0.76	-24.49	-2.01	-1.77	-2.02	0.12
Non-Graduate-Four Year Univ.	29.13	0.06	-2.08	-2.78	-2.88	-5.91	0.13

Table 7: Differences in Flow Probabilities ( $\Delta Pi$ ), Between Q2-2000 and Q2-2001

	Peo	Peu	Pue	Puo	Pou	Poe	Pns
Female-Male	19.83	-2.04	-33.03	28.48	-3.47	-12.38	0.03
Rural-Urban	0.53	-3.13	11.77	-7.20	-1.22	14.56	0.18
Rural Male-Urban Male	-1.57	-2.55	12.58	-11.64	-1.22	12.44	0.11
Rural Female-Urban Female	-3.85	-3.65	-2.57	18.64	-1.15	15.05	0.25
UrbanFemale-UrbanMale	21.25	-0.99	-31.25	25.78	-3.47	-12.97	-0.05
Rural Female-Rural Male	18.97	-2.09	-46.40	56.06	-3.4	-10.36	0.08
Non-Married-Married	16.49	2.29	-1.65	-1.38	3.61	2.48	-0.17
Non-Married Male-Married Male	11.27	2.96	-5.67	6.27	2.2	-6.99	-0.13
Non-Married Female - Married Female	3.97	3.12	12.25	-27.65	3.63	0.73	-0.26
Married Female-Married Male	20.52	-2.62	-42.34	45.93	-3.03	-15.58	0.05
Non Married Female-Non Married Male	13.22	-2.46	-24.42	12.01	-1.6	-7.86	-0.08
Female1519-Male1519	19.22	-0.33	-30.95	22.62	-0.06	-5.18	-0.11
Female2024-Male2024	17.20	-0.69	-36.51	15.87	-13.59	-13.82	0.14
Female2534-Male2534	21.58	-3.30	-41.29	49.58	-11.23	-38.62	-0.01
Female3544-Male3544	21.03	-2.05	-44.06	46.08	-6.75	-45.05	0.05
Female4554-Male4554	13.06	-3.69	-36.62	43.69	-4.62	-10.92	0.19
Female55pl-Male55pl	15.39	-1.92	14.71	-8.82	-0.97	-7.6	0.06
Under Primary-Primary Edu.	14.02	-1.01	-7.19	19.07	-1.29	0.91	0.10
Under Primary-Middle School	12.64	-0.52	-4.91	14.09	-1.62	7.77	0.29
Under Primary-High School	18.46	0.01	-2.02	9.80	-6.61	3.18	0.41
Under Primary-Voc.High School	22.75	-0.55	10.39	18.76	-2.34	-6.99	0.09
Under Primary-Two Years Univ.	24.39	1.49	-7.69	15.39	-4.31	4.86	0.36
Under Primary-Four Years Univ.	21.55	1.55	-13.39	31.63	-7.17	-9.9	0.22

Table 8: Partial Differences in Unemployment Rates Attributable to Transition Probabilities (Between Q1-2000 and Q1-2001)

	Peu	Peo	Pue	Puo	Pns	Total Difference
Female&Male	8.00	-3.15	15.06	-0.69	-1.88	17.33
Rural&Urban	-2.21	1.97	0.20	0.66	4.59	5.22
Rural Male&Urban Male	0.91	-0.93	-0.22	-0.23	-1.63	-2.09
Rural Female&Urban Female	3.60	-6.30	10.76	-3.03	-32.40	-27.36
Urban Female&Urban Male	8.58	-1.76	16.00	-0.65	1.19	23.36
Rural Female&Rural Male	3.74	-6.95	17.16	-1.56	-11.32	1.07
Non-Married&Married	2.99	6.50	4.08	-2.36	4.77	15.98
Non-Married Male&Married Male	2.51	6.63	2.08	-1.30	2.43	12.34
Non-Married Female&Married Female	-3.51	12.64	1.35	-2.00	20.72	29.21
Married Female&Married Male	6.26	-5.76	9.62	-0.51	-4.19	5.42
Non-Married Female&Non-Married Male	4.18	-3.16	17.62	1.36	1.53	21.53
Non-Graduate &Primary Edu.	2.37	-4.67	0.21	-0.18	-3.65	-5.93
Non-Graduate &Middle School	4.27	-3.90	0.44	-0.41	-8.10	-7.69
Non-Graduate &High School	9.48	-3.31	-4.97	0.44	-10.20	-8.56
Non-Graduate &Voc.High School	11.12	-4.20	-2.64	0.70	-11.26	-6.27
Non-Graduate&Two Year Univ.	3.64	-1.05	1.51	0.11	-3.82	0.39
Non-Graduate &Four Year Univ.	5.31	0.10	0.14	0.17	-4.30	1.41
Prime Age (age25-54) and Education						
Prim.& Non-Graduate (Female&Male)	9.92	-7.62	16.23	-0.11	-11.90	6.53
Mid.Sc.(Female&Male)	13.35	-7.40	48.74	0.00	8.26	62.95
H.Sch.(Female&Male)	7.06	1.59	9.35	-3.37	3.84	18.46
University (Female&Male)	1.78	-0.14	1.47	-0.42	0.58	3.26

Table 9: Partial Differences in Unemployment Rates Attributable to Transition Probabilities (Between Q2-2000 and Q2-2001)

	Peu	Peo	Pue	Puo	Pns	Total Difference
Female-Male	4.48	-2.43	3.70	-2.59	-0.73	2.44
Rural-Urban	0.09	-3.56	-0.98	0.48	-3.78	-7.76
Rural Male-Urban Male	-0.32	-2.93	-0.97	0.72	-1.34	-4.83
Rural Female-Urban Female	-0.70	-4.11	0.32	-1.72	-9.71	-15.91
Urban Female-Urban Male	6.20	-1.13	5.41	-3.28	1.54	8.74
Rural Female-Rural Male	1.70	-2.37	1.39	-1.51	-1.74	-2.53
NonMarried-Married	3.33	2.50	0.21	0.14	4.50	10.69
NonMarried Male-Married Male	2.47	3.23	0.65	-0.56	2.22	8.03
NonMarried Female-Married Female	0.99	3.62	-2.25	3.51	11.16	17.02
Married Female-Married Male	2.71	-3.07	2.51	-2.41	-1.22	-1.47
Non Married Female-Non Married Male	4.43	-2.66	5.86	-1.96	2.81	8.48
Non-Graduate &Primary Edu.	1.34	-1.08	0.49	-1.16	-2.51	-2.93
Non-Graduate &Middle School	2.58	-0.56	0.46	-0.97	-7.94	-6.44
Non-Graduate & High School	5.43	0.01	0.19	-0.60	-10.11	-5.08
Non-Graduate &Voc.High School	2.57	-0.69	-0.80	-1.30	-1.98	-2.19
Non-Graduate&Two Year Univ.	6.90	1.74	0.40	-0.61	-7.01	1.43
Non-Graduate &Four Year Univ.	4.11	1.82	0.73	-1.43	-4.60	0.62
Prime Age (age25-54) and Education	+					
Prim.&Under (Female-Male)	3.35	-4.56	2.70	-2.94	-2.15	-3.62
Mid.Sc.(Female-Male)	10.32	-3.71	8.15	-4.19	-6.22	4.35
H.Sch.(Female-Male)	5.46	-1.20	7.57	-4.58	10.69	17.94
University (Female-Male)	0.37	1.55	0.99	-1.51	-0.18	1.21

Table 10: Transition from Employment to Unemployment and Out-of-the Labor Force by Gender

		MA	LE DY	Gender	ı	EEM	ALE	
Variables	peu	peu		200	nou	peu		noo
Variables urban	-0.001	0.007**	<b>peo</b> 0.020***	<b>peo</b> 0.013**	<b>peu</b> 0.000*	0.001**	<b>peo</b> 0.181***	<b>peo</b> 0.205***
urburi	[0.004]	[0.003]	[0.006]	[0.005]	[0.000]	[0.000]	[0.027]	[0.023]
married	-0.019***	-0.020***	-0.067***	-0.066***	-0.001**	-0.001**	-0.015	-0.017
	[0.006]	[0.006]	[0.013]	[0.013]	[0.000]	[0.000]	[0.025]	[0.025]
REGION						-		
Marmara	0.000	0.000	0.014	0.014	0.000	0.000	0.069**	0.073**
	[0.004]	[0.005]	[0.009]	[0.009]	[0.000]	[0.000]	[0.033]	[0.033]
Aegean	0.006	0.008	0.010	0.009	0.000	0.000	-0.012	-0.005
	[0.006]	[0.006]	[0.010]	[0.010]	[0.000]	[0.000]	[0.033]	[0.033]
Mediterranean	-0.004	-0.006	0.013	0.015	0.000	0.000	0.039	0.036
Di I O	[0.004]	[0.005]	[0.010]	[0.010] 0.021**	[0.000]	[0.000]	[0.037]	[0.037] <i>-0.038</i>
BlackSea	0.003	0.005	0.021**		0.000	0.000	-0.035	
EastAnatolia	[0.006] 0.005	[0.006] 0.006	[0.011] 0.011	[0.010] 0.011	[0.000] 0.000	[0.000] 0.000	[0.032] 0.072*	[0.032] 0.078**
EdStAtiatolia	[0.006]	[0.007]	[0.011]	[0.011]	[0.000]	[0.000]	[0.039]	[0.039]
SouthEastAnatolia	0.007	0.008	0.003	0.003	0.001	0.001	0.181***	0.186***
	[0.007]	[0.007]	[0.011]	[0.011]	[0.001]	[0.001]	[0.049]	[0.049]
EDUCATION						•		, ,
PrimarySchool	-0.008	-0.006	-0.020**	-0.022***	0.001	0.001	-0.015	-0.008
	[0.005]	[0.005]	[800.0]	[800.0]	[0.000]	[0.001]	[0.024]	[0.024]
MiddleSchool	-0.008*	-0.008	0.013	0.012	0.001	0.001	-0.049	-0.046
	[0.005]	[0.005]	[0.011]	[0.011]	[0.001]	[0.001]	[0.040]	[0.039]
HighSchool	-0.008*	-0.008	-0.012	-0.012	0.001	0.001	-0.169***	-0.180***
Vaciliatos	[0.005]	[0.005]	[0.010]	[0.009]	[0.001]	[0.001]	[0.033]	[0.030]
VocHighSchool	-0.005 [0.005]	-0.006 [0.006]	-0.023** [0.009]	-0.023** [0.009]	0.000 [0.001]	0.000 [0.001]	-0.283*** [0.022]	-0.272*** [0.023]
TwoyearsUniv	-0.019***	-0.021***	-0.030**	-0.028**	0.001	0.001	-0.308***	-0.288***
. Noyeursoniv	[0.005]	[0.005]	[0.013]	[0.013]	[0.002]	[0.002]	[0.019]	[0.025]
Univ4pl	-0.017***	-0.020***	-0.032***	-0.028***	0.001	0.001	-0.375***	-0.346***
	[0.005]	[0.004]	[0.009]	[0.009]	[0.001]	[0.001]	[0.016]	[0.018]
AGE GROUP		· · · · · · · · · · · · · · · · · · ·						
age2024	0.021**	0.023**	-0.021***	-0.021***	0.000	0.000	-0.125***	-0.125***
	[0.010]	[0.010]	[0.007]	[0.007]	[0.000]	[0.000]	[0.029]	[0.029]
age2534	0.013*	0.014*	-0.063***	-0.063***	0.000*	0.000*	-0.182***	-0.185***
0544	[0.007]	[0.007]	[0.007]	[0.007]	[0.000]	[0.000]	[0.030]	[0.029] -0.197***
age3544	0.008 [0.007]	0.008 [0.007]	-0.058*** [0.009]	-0.058*** [0.009]	0.000 [0.000]	0.000* [0.000]	-0.193*** [0.031]	[0.031]
age4554	0.009	0.007	0.020	0.020	0.000	-0.001***	-0.175***	-0.178***
иденоон	[0.008]	[0.008]	[0.013]	[0.013]	[0.000]	[0.000]	[0.030]	[0.030]
age55pl	-0.009	-0.012*	0.107***	0.111***	-0.007***	-0.008***	-0.087**	-0.090**
	[0.007]	[0.006]	[0.025]	[0.025]	[0.002]	[0.002]	[0.037]	[0.037]
Unemprate	0.159***	0.178***	0.284***	0.277***	0.002	0.002	0.756***	0.768***
	[0.025]	[0.026]	[0.044]	[0.044]	[0.001]	[0.001]	[0.216]	[0.215]
OCCUPATION	0.000		0.000		0.004		0.400	
occup2	-0.003		-0.009		0.001		-0.139	
occup3	[0.013] -0.004		[0.015] -0.006		[0.001] 0.001		[0.093] -0.210***	
оссира	[0.004		[0.013]		[0.001]		[0.033]	
occup4	0.007		-0.011		0.001		-0.156***	
	[0.010]		[0.011]		[0.001]		[0.043]	
occup5	0.009		-0.011		0.001		-0.181***	
	[0.010]		[0.011]		[0.001]		[0.040]	
occup6	-0.018***		0.004		0.000		-0.220***	
	[0.006]		[0.014]		[0.000]		[0.057]	
occup7	800.0		-0.015		0.001		-0.140***	
	[0.008] 0.027		[0.011] -0.001		[0.001] 0.002		[0.046] -0.005	
occup8	[0.032]		[0.028]		[0.002]		[0.099]	
STATUS			[3:320]		[::502]		[2.200]	
status2	0.016***	0.017***	0.036***	0.035***	0.000	0.000	0.232***	0.219***
	[0.005]	[0.005]	[0.010]	[0.009]	[0.000]	[0.000]	[0.047]	[0.046]
status3	-0.026***	-0.028***	-0.070***	-0.070***	0.000	0.000	0.225**	0.182**
	[0.002]	[0.002]	[0.003]	[0.003]	[0.001]	[0.001]	[0.092]	[880.0]
status4	-0.017***	-0.019***	-0.024***	-0.024***	0.000	0.000	0.275***	0.283***
	[0.003]	[0.003]	[0.007]	[0.007]	[0.000]	[0.000]	[0.094]	[0.091]
status5	-0.013*** [0.003]	-0.016*** [0.003]	-0.012* [0.007]	-0.009 [0.007]	0.000 [0.000]	0.000 [0.000]	0.275*** [0.039]	0.262*** [0.036]
status6	-0.008*	-0.015***	0.036***	0.043***	-0.001*	-0.001**	0.153***	0.125***
Statuso	[0.005]	[0.004]	[0.013]	[0.013]	[0.000]	[0.000]	[0.039]	[0.034]
	[3.300]	[2.301]	[5:5:0]	[5.5.0]	[2.300]	[5.500]	[5.500]	11
PublicSector	-0.027***	-0.029***	-0.035***	-0.034***	0.000***	-0.001***	-0.044	-0.017
	[0.003]	[0.003]	[0.007]	[0.006]	[0.000]	[0.000]	[0.039]	[0.036]
q2q2	0.001	0.001	-0.008**	-0.008**	0.000	0.000	-0.072***	-0.073***
	[0.002]	[0.002]	[0.004]	[0.004]	[0.000]	[0.000]	[0.016]	[0.017]
Log-Likelihood	-5152.80	-5174.17	-5152.80	-5174.17	-2524.011	-2547.47	-2524.011	-2547.47
Wald-Test of Chi2	3756.2	5426.1	3756.2	5426.1	27321.2	33076.0	27321.2	33076.0
Prob>Chi2 Pseudo R2	0.000 0.127	0.000 0.124	0.000	0.000	0.000	0.000	0.000	0.000
Number of Transitions	483	483	0.127 1208	0.124 1208	0.162 87	0.155 87	0.162 1475	0.155 1475
Observations	12110	12110	12110	12110	4007	4007	4007	4007
N I) C I I		110			.507	.007	.007	.007

Note: 1) Standard errors in brackets.
2) \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 11: Transition from Unemployment to Employment and Out-of-Labor **Force by Gender** 

		84.4		y Gend		FEN	ALE	
	pue	pue MA	Puo	Puo	pue	FEM pue	ALE Puo	Puo
urban	0.041	-0.002	0.000	0.002	0.016*	0.059***	-0.359***	-0.373***
married	[0.069] 0.062	[0.057] 0.112*	[0.011] -0.010	[0.010] -0.019	[0.008] 0.000	[0.015] 0.015	[0.119] 0.165*	[0.105] 0.136
	[0.075]	[0.066]	[0.011]	[0.012]	[0.010]	[0.027]	[0.097]	[0.091]
REGION Marmara	0.070	0.057	-0.006	-0.008	0.038	0.093	0.130	0.027
	[0.066]	[0.065]	[0.010]	[0.010]	[0.046]	[0.097]	[0.156]	[0.151]
Aegean	0.079 [0.071]	0.099	-0.001 [0.013]	-0.011 [0.011]	0.197 [0.178]	0.243 [0.198]	-0.138 [0.166]	-0.118 [0.164]
Mediterrian	0.122*	0.095	-0.003	0.001	0.157	0.179	0.129	0.064
BlackSea	[0.065] 0.100	[0.063] 0.057	[0.011] -0.003	[0.013] 0.003	[0.145] 0.101	[0.147] 0.087	[0.196] 0.260	[0.170] 0.188
	[0.077]	[0.073]	[0.013]	[0.016]	[0.122]	[0.131]	[0.173]	[0.179]
EastAnatolia	-0.083 [0.091]	-0.043 [0.088]	0.022 [0.027]	0.013 [0.025]	-0.037*** [0.013]	-0.102*** [0.024]	0.451*** [0.147]	0.446*** [0.164]
SouthEastAnatolia	0.150**	0.139**	-0.008	-0.007	0.087	0.029	0.254	0.303*
EDUCATION	[0.069]	[0.066]	[0.010]	[0.012]	[0.143]	[0.097]	[0.208]	[0.168]
PrimarySchool	-0.019	0.015	-0.017	-0.025*	0.005	-0.001	-0.202*	-0.220**
MiddleSchool	[0.089] 0.109	[0.079] 0.131*	[0.012] -0.014*	[0.014] -0.018**	[0.017] -0.007	[0.031] -0.022	[0.111] -0.279***	[0.098] -0.283***
	[0.093]	[0.078]	[0.008]	[0.009]	[0.014]	[0.027]	[0.097]	[880.0]
HighSchool	0.006 [0.110]	-0.044 [0.101]	-0.013 [0.009]	-0.013 [0.010]	0.016 [0.026]	-0.004 [0.031]	-0.227* [0.123]	-0.286*** [0.093]
VocHighSchool	0.110	0.155*	-0.016**	-0.021***	0.018	0.012	-0.477***	-0.479***
T	[0.102]	[0.083]	[0.008]	[0.007]	[0.039]	[0.041]	[0.051]	[0.049]
TwoyearsUniv	0.234*** [0.083]	0.202** [0.083]	-0.023*** [0.006]	-0.022*** [0.009]	0.650* [0.377]	0.482* [0.269]	-0.375*** [0.084]	-0.364*** [0.107]
Univ4pI	0.344***	0.253***	-0.026***	-0.022***	0.765***	0.333*	-0.444***	-0.432***
AGE GROUP	[0.035]	[0.058]	[0.004]	[0.007]	[0.197]	[0.198]	[0.048]	[0.049]
age2024	0.087 [0.077]	0.112*	-0.014*	-0.022***	0.001	0.006	-0.062 [0.119]	-0.023 [0.107]
age2534	-0.031	[0.064] 0.041	[0.007] -0.021**	[0.007] -0.032***	[0.011] -0.016	[0.023] -0.017	[0.119] -0.059	[0.107] 0.008
	[0.095]	[0.079]	[0.009]	[800.0]	[0.010]	[0.024]	[0.127]	[0.116]
age3544	-0.182* [0.107]	-0.089 [0.095]	-0.014 [0.010]	-0.025*** [0.009]	-0.031*** [0.010]	-0.072*** [0.017]	-0.215* [0.111]	-0.149 [0.115]
age4554	-0.265**	-0.155	-0.005	-0.017*	-0.023***	-0.063***	-0.055	0.012
age55pl	[0.120] -0.299**	[0.109] -0.213	[0.013] 0.017	[0.010] 0.005	[0.007] NA	[0.013] NA	[0.169] NA	[0.173] NA
	[0.131]	[0.131]	[0.025]	[0.019]				
unemprate	-1.876*** [0.686]	-1.950*** [0.662]	0.062 [0.118]	0.107 [0.126]	-0.385* [0.224]	-0.519 [0.483]	-0.756 [1.777]	-1.020 [1.503]
OCCUPATION	0.045		0.000***		NIA		NIA.	
occup2	0.215 [0.155]		-0.023*** [0.005]		NA		NA	
occup3	0.326***		-0.026***		0.300**		-0.306***	
occup4	[0.040] 0.350***		[0.004] -0.032***		[0.135] 0.061		[0.094] -0.428***	
-	[0.046]		[0.006]		[0.058]		[0.051]	
occup5	0.370*** [0.042]		-0.031*** [0.005]		0.782*** [0.168]		-0.396*** [0.056]	
occup6	0.398***		-0.032***		0.258		-0.227*	
occup7	[0.038] 0.577***		[0.006] -0.076***		[0.163] 0.650***		[0.118] -0.297***	
•	[0.072]		[0.017]		[0.147]		[0.073]	
occup8	0.299*** [0.059]		-0.022*** [0.006]		0.385 [0.524]		-0.331*** [0.105]	
STATUS		0.007						0.050***
status2	-0.060 [0.054]	0.027 [0.045]	0.011 [0.009]	-0.006 [0.007]	-0.009 [0.010]	0.063	-0.153 [0.158]	-0.252*** [0.097]
status3	NA 1	NA	NA 1	NA 1	-0.018***	0.049	0.331	0.037
status4	0.309***	0.292***	-0.014	-0.018	[0.006] NA	[0.071] NA	[0.213] NA	[0.219] NA
	[0.045]	[0.046]	[0.012]	[0.014]	0.057	0.669**	0.007	0.074***
status5	0.247*** [0.050]	0.262*** [0.040]	-0.019*** [0.006]	-0.028*** [0.006]	0.057 [0.073]	[0.276]	-0.267 [0.208]	-0.374*** [0.132]
status6	0.218*** [0.079]	0.305*** [0.048]	-0.103*** [0.015]	-0.113*** [0.014]	NA	NA	NA	NA
DURATION								
duration46	-0.084 [0.056]	-0.082 [0.052]	0.002 [0.009]	0.003 [0.010]	-0.022** [0.010]	-0.068*** [0.018]	0.063 [0.110]	0.150 [0.103]
duration612	-0.096	-0.102*	0.017	0.024*	-0.010	-0.031*	-0.145	-0.093
duration1224	[0.062] -0.054	[0.057] -0.056	[0.012] 0.061*	[0.013] 0.077**	[0.008] -0.020***	[0.018] -0.047***	[0.101] -0.013	[0.101] 0.093
	[0.102]	[0.093]	[0.031]	[0.037]	[800.0]	[0.016]	[0.144]	[0.134]
duration24pl	-0.109 [0.136]	-0.115 [0.127]	0.139** [0.060]	0.150** [0.069]	-0.004 [0.021]	-0.050*** [0.017]	-0.044 [0.186]	0.062 [0.187]
SEARCH METHOD								
Friendsetc	0.064 [0.048]	0.055 [0.043]	-0.010 [0.008]	-0.009 [0.008]	0.005 [0.010]	-0.024 [0.025]	-0.020 [0.100]	0.002 [0.091]
Newspapers	0.125**	0.114**	0.002	0.006	0.012	-0.004	0.161	0.159
EmploymentOffice	[0.057] 0.036	[0.054] -0.002	[0.013] -0.022***	[0.014] -0.024***	[0.026] -0.005	[0.036] -0.039**	[0.195] -0.001	[0.141] -0.028
	[0.074]	[0.071]	[0.006]	[0.006]	[0.012]	[0.016]	[0.148]	[0.125]
Workersagent	0.263*** [0.089]	0.221*** [0.085]	-0.020*** [0.007]	-0.020* [0.010]	0.001 [0.029]	-0.015 [0.037]	-0.037 [0.234]	-0.074 [0.209]
Trytoprovideequipment	-0.333**	-0.324**	0.022	0.013	-0.023***	-0.065***	0.067	0.013
Othermethods	[0.140] -0.259	[0.147] -0.320**	[0.032] -0.020***	[0.027] -0.022**	[0.007] -0.027***	[0.015] -0.077***	[0.248] 0.201	[0.246] 0.294
	[0.168]	[0.153]	[0.006]	[0.010]	[0.009]	[0.017]	[0.273]	[0.219]
q2q2	0.035 [0.042]	0.051 [0.039]	0.066*** [0.011]	0.067*** [0.010]	-0.009 [0.007]	-0.011 [0.015]	0.657*** [0.050]	0.588***
Log-Likelihood	-666.234	-718.65	-666.234	-718.65	-220.91	-277.19	-220.91	-277.19
Wald-Test of Chi2 Prob>Chi2	12103.99 0.0000	10062.75 0.0000	12103.99 0.0000	10062.75 0.0000	10716.70 0.0000	12666.56 0.0000	10716.70 0.0000	12666.56 0.0000
Pseudo R2	0.2457	0.1864	0.2457	0.1864	0.4573	0.3190	0.4573	0.3190
Number of transitions Observations	493 897	493 897	149 897	149 897	77 386	77 386	154 386	154 386

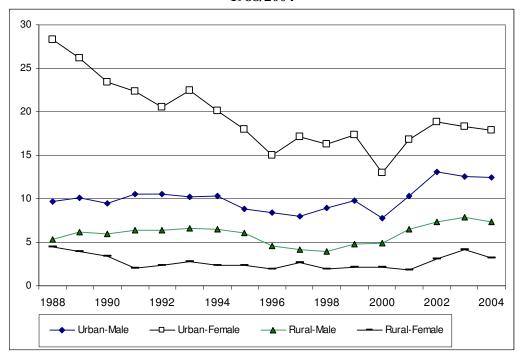
Observations
Notes:1) See Table 10.
2) NA:Not Applicable

Table 12: Transition from Out-of-the Labor Force to Employment and Unemployment by Gender

MALE   FEMALE   Pou	u         poe         poe         pou         pou           05         -0.010***         -0.022***         0.000**         0.000***           07]         [0.002]         [0.003]         [0.000]         [0.000]           10         -0.004***         -0.014***         0.000***         0.000***		nou			noo	
	05						
Marmara	[0.002] [0.003] [0.000] [0.000] [0.000] [0.000] [0.000] [0.000]	-N N1N***					urhan
REGION	0.000*** 0.000***						uibaii
REGION   Marmara   0.023							married
REGION   Marmara   0.023							
Marmara		[0.001]	[0.010]	[0.011]	[0.020]	[0.022]	REGION
Aegean   0.017    0.022    0.009    0.006    0.0017    0.002    0.000    0.005** - 0.015** - 0.015** - 0.006** - 0.001 - 0.005** - 0.015** - 0.010** - 0.000    0.	05 -0.005*** -0.008*** 0.000 0.000	-0.005***	0.005	0.004	0.066***	0.023	
Mediterrenean   0.053***   0.004   0.001   0.005***   0.000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.0							
Mediterrenean   (0.019)   (0.028)   (0.013)   (0.012)   (0.001)   (0.002)   (0.001)							Aegean
Mediterrenean							7.10gou
BlackSea   [0.018]   [0.023]   [0.010]   [0.009]   [0.0011   [0.003]   [0.000]   [0							Mediterrenean
BlackSea   -0.022   -0.007   -0.013   -0.010   -0.005***   -0.014***   0.000°							
BestAnatolia   0.017   0.022   0.008   0.008   0.001   0.002   0.000							BlackSea
EastAnatolia							
SouthEastAnatolia							EastAnatolia
SouthEastAnatolia							
Description						0.130***	SouthEastAnatolia
PrimarySchool		[0.006]			[0.052]	[0.047]	
MiddleSchool   0.061***   -0.078***   -0.016   -0.001     -0.002     -0.002     -0.000       -0.002       -0.002     -0.002     -0.002     -0.000       -0.000					-		EDUCATION
MiddleSchool	17 -0.002** -0.003	-0.002**	0.017	0.006	0.039*	-0.021	PrimarySchool
HighSchool	[0.001] [0.002] [0.000] [0.000]	[0.001]	[0.013]	[0.014]	[0.023]	[0.018]	-
HighSchool   -0.006   -0.001     0.009   0.011     0.002   0.023***   0.001**	11 -0.002 -0.002 0.000 0.000*						MiddleSchool
HighSchool   0.006   -0.001   0.009   0.011   0.002   0.023***   0.001***   0.000]							
VocHighSchool   0.035   0.129**   0.007   0.012   0.007*   0.071***   0.001*		0.002			-0.001	-0.006	HighSchool
TwoyearsUniv	[0.002] [0.007] [0.000] [0.000]	[0.002]	[0.014]	[0.014]	[0.027]	[0.024]	
TwoyearsUniv   0.070   -0.012   0.035   0.016   0.037   0.112**   0.001   [0.073]   (0.048]   (0.044]   (0.031]   (0.024]   (0.052]   (0.001]   [0.001]   [0.002]   [0.001]   [0.002]   [0.000]   [0.001]							VocHighSchool
Univ4pl			[0.016]	[0.017]			
Univ4pl   0.348***   0.185***   0.000   0.001   0.177***   0.293***   0.002*   [0.080]   [0.054]   [0.021]   [0.020]   (0.060]   [0.049]   [0.001]							TwoyearsUniv
AGE GROUP         age2024         0.019         0.083***         0.057***         0.059***         0.000         0.006         0.000           age2534         0.083***         0.249***         0.056**         0.059***         -0.002**         0.000         0.000*           age3544         0.083**         0.249***         0.001         0.019         -0.002**         0.000         0.000*           age3544         -0.048***         0.084*         -0.001         0.019         -0.004***         -0.005         0.000           age4554         -0.152***         -0.127***         -0.015**         -0.019         -0.004***         -0.005         0.000           age4554         -0.152***         -0.127***         -0.034***         -0.019         [0.001]         [0.001]         [0.004]         [0.000]           age55pl         -0.152***         -0.127***         -0.034***         -0.019         [0.001]         [0.001]         [0.003]         [0.000]           age55pl         -0.212***         -0.202***         -0.072***         -0.058****         -0.001***         -0.018***         -0.005***           [0.014]         [0.019]         [0.008]         [0.007]         [0.001]         [0.002]         [0.001]      <							Univ4pI
age2024   0.019   0.083***   0.057***   0.059***   0.000   0.006   0.000	20] [0.060] [0.049] [0.001] [0.001]	[0.060]	[0.020]	[0.021]	[0.054]	[0.080]	
age2534							age2024
age3544         -0.048**         0.084*         -0.001         0.019         -0.004***         -0.005         0.000           age4554         -0.152***         -0.127***         -0.034***         -0.018*         -0.005***         -0.009***         0.000***           lo.012         lo.012         lo.021         lo.008         lo.010         lo.001         lo.003***         lo.009***           lo.012         lo.021         lo.008         lo.010         lo.001         lo.003         lo.000           lo.014         lo.019         lo.008         lo.007         lo.001         lo.002         lo.005***           lo.014         lo.019         lo.008         lo.007         lo.001         lo.002         lo.005***           lo.040         lo.0495***         -0.015         0.013         -0.027**         -0.050         0.000           occup2         lo.647***         lo.029*         lo.040         lo.000**         0.000**           occup3         lo.673***         lo.013         lo.042         lo.042         lo.000**           occup4         lo.741***         lo.005         lo.508***         lo.000**           occup5         lo.690***         lo.000         lo.012         lo.048							age2534
age4554         -0.152***         -0.127***         -0.034***         -0.018*         -0.005***         -0.009***         0.000***           age55pl         -0.212***         -0.222***         -0.072***         -0.058**         -0.007***         -0.018**           [0.014]         [0.014]         [0.019]         [0.008]         [0.007]         [0.001]         [0.002]         [0.001]           Unemprate         -0.495***         -0.518**         -0.015         0.013         -0.027**         -0.050         0.000           [0.190]         [0.221]         [0.101]         [0.093]         [0.011]         [0.031]         [0.000]           OCCUPATION           occup2         0.647***         -0.029*         [0.042]         [0.041]         [0.000]           occup3         0.673***         -0.013         0.318****         0.000***           [0.062]         [0.041]         [0.042]         [0.042]         [0.000]           occup4         0.741****         -0.005         0.508****         0.000***           [0.029]         [0.010]         [0.059]         [0.000]           occup5         0.690****         0.000         0.615****         0.000***           [0.034]         [0							age3544
age55pl   -0.212***   -0.202***   -0.072***   -0.058***   -0.007***   -0.018***   -0.005***   [0.001]   [0.002]   [0.001]   [0.002]   [0.001]							age4554
[0.014]   [0.019]   [0.008]   [0.007]   [0.001]   [0.002]   [0.001]							
Unemprate							agesspi
[0.190]   [0.221]   [0.101]   [0.093]   [0.011]   [0.000]							
OCCUPATION         0.647***         -0.029*         0.040         0.000****           [0.062]         [0.015]         [0.042]         [0.000]           occup3         0.673***         -0.013         0.318***         0.000***           [0.041]         [0.012]         [0.050]         [0.000]           occup4         0.741***         -0.005         0.508***         0.000**           [0.029]         [0.010]         [0.059]         [0.000]           occup5         0.690***         0.000         0.615***         0.000*           occup6         0.709***         -0.018*         0.250***         0.000           occup6         0.709***         -0.018*         0.250***         0.000           occup7         0.642***         0.012         0.402***         0.000**							Unemprate
occup2         0.647***         -0.029*         0.040         0.000***           [0.062]         [0.015]         [0.042]         [0.000]           occup3         0.673***         -0.013         0.318****         0.000***           [0.041]         [0.012]         [0.050]         [0.000]           occup4         0.741***         -0.005         0.508***         0.000**           [0.029]         [0.010]         [0.059]         [0.000]           occup5         0.690***         0.000         0.615****         0.000*           [0.034]         [0.010]         [0.048]         [0.000]           occup6         0.709***         -0.018*         0.250****         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642***         0.012         0.402****         0.000**	93] [0.011] [0.031] [0.000] [0.000]	[0.011]	[0.093]	[0.101]	[0.221]	[0.190]	COCURATION
[0.062] [0.015] [0.042] [0.000]  occup3 0.673*** -0.013 0.318*** 0.000***  [0.041] [0.012] [0.050] [0.000]  occup4 0.741*** -0.005 0.508*** 0.000**  [0.029] [0.010] [0.059] [0.000]  occup5 0.690*** 0.000 0.615*** 0.000*  [0.034] [0.010] [0.048] [0.000]  occup6 0.709*** -0.018* 0.250*** 0.000  [0.039] [0.010] [0.035] [0.000]  occup7 0.642*** 0.012 0.402*** 0.000**	0.040	0.040		0.020*		0.647***	
occup3         0.673***         -0.013         0.318***         0.000***           occup4         [0.041]         [0.012]         [0.050]         [0.000]           occup4         0.741***         -0.005         0.508***         0.000**           [0.029]         [0.010]         [0.059]         [0.000]           occup5         0.690***         0.000         0.615***         0.000*           [0.034]         [0.010]         [0.048]         [0.000]           occup6         0.709***         -0.018*         0.250***         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642***         0.012         0.402***         0.000**							occupz
[0.041]   [0.012]   [0.050]   [0.000]     0.741***   -0.005   0.508***   0.000***     [0.029]   [0.010]   [0.059]   [0.000]     0ccup5   0.690***   0.000   0.615***   0.000**     [0.034]   [0.010]   [0.048]   [0.000]     0ccup6   0.709***   -0.018*   0.250***   0.000     [0.039]   [0.010]   [0.035]   [0.000]     0ccup7   0.642***   0.012   0.402***   0.000**							
occup4         0.741***         -0.005         0.508***         0.000**           [0.029]         [0.010]         [0.059]         [0.000]           occup5         0.690***         0.000         0.615****         0.000*           [0.034]         [0.010]         [0.048]         [0.000]           occup6         0.709***         -0.018*         0.250****         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642****         0.012         0.402****         0.000**							occups
[0.029]   [0.010]   [0.059]   [0.000]     occup5   0.690***   0.000   0.615***   0.000*     [0.034]   [0.010]   [0.048]   [0.000]     occup6   0.709***   -0.018*   0.250****   0.000     [0.039]   [0.010]   [0.035]   [0.000]     occup7   0.642***   0.012   0.402***   0.000**							0001104
occup5         0.690***         0.000         0.615***         0.000*           [0.034]         [0.010]         [0.048]         [0.000]           occup6         0.709***         -0.018*         0.250***         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642***         0.012         0.402***         0.000**							occup4
occup6         [0.034]         [0.010]         [0.048]         [0.000]           0.709***         -0.018*         0.250****         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642****         0.012         0.402****         0.000***							occup5
occup6         0.709***         -0.018*         0.250***         0.000           [0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642***         0.012         0.402****         0.000***							оссаро
[0.039]         [0.010]         [0.035]         [0.000]           occup7         0.642***         0.012         0.402***         0.000**							occup6
<b>occup7</b> 0.642*** 0.012 0.402*** 0.000**							оссиро
				-			occun7
10.0001 1010.01 10.0001 10.0001	[0.036] [0.000]			[0.010]		[0.033]	
occup8 0.633*** -0.003 0.540*** 0.000	7 = 1 · · · 7 · · · · · · · · · · · · · · ·						8guppo
[0.094] [0.029] [0.103] [0.000]							
STATUS				, ,			STATUS
status2 0.122*** 0.391*** 0.075*** 0.069*** 0.010*** 0.432*** 0.000	9*** 0.010*** 0.432*** 0.000 0.000*	0.010***	0.069***	0.075***	0.391***	0.122***	
[0.028] [0.031] [0.019] [0.015] [0.004] [0.036] [0.000]	[0.004] [0.036] [0.000] [0.000]	[0.004]	[0.015]		[0.031]	[0.028]	
status3 NA NA NA NA 0.058* 0.831*** 0.001							status3
[0.033] [0.053] [0.001]	[0.033] [0.053] [0.001] [0.000]						
status4 0.430*** 0.592*** 0.028 0.000 0.130 0.812*** 0.000**	0.00 0.130 0.812*** 0.000*** 0.000***	0.130	0.000	0.028	0.592***	0.430***	status4
[0.062] [0.042] [0.034] [0.020] [0.094] [0.101] [0.000]				[0.034]			
status5 0.337*** 0.546*** 0.000 -0.012 0.035*** 0.656*** 0.000***	12 0.035*** 0.656*** 0.000*** 0.000***	0.035***	-0.012	0.000	0.546***	0.337***	status5
[0.038] [0.029] [0.014] [0.009] [0.008] [0.026] [0.000]			[0.009]			[0.038]	
status6 0.118*** 0.611*** -0.035*** -0.033*** 0.016*** 0.478*** 0.000							status6
[0.042] [0.030] [0.007] [0.005] [0.005] [0.019] [0.000]		[0.005]			[0.030]		
<b>q2q2</b> -0.036*** -0.056*** -0.005 -0.004 -0.001* -0.005** 0.000							q2q2
[0.012] [0.015] [0.006] [0.006] [0.001] [0.002] [0.000]		[0.001]			[0.015]	[0.012]	
<b>Log-Likelihood</b> -2523.89 -2857.18 -2523.89 -2857.18 -2777.22 -3315.01 -2777.22							
Prob>Chi2         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000	00 0.0000 0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Pseudo R2 0.3530 0.2676 0.3530 0.2676 0.4686 0.3657 0.4686	76 0.4686 0.3657 0.4686 0.3657	0.4686	0.2676	0.3530	0.2676	0.3530	Pseudo R2
		1152	280	280	1262	1262	Number of Transitions
	7 15357 15357 15357 15357	15357	5227	5227	5227	5227	Observations

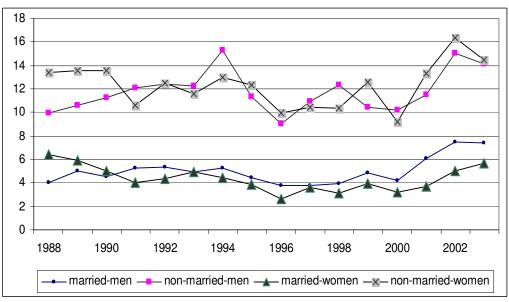
Note: See Table 11.

Figure 1: Trends in Unemployment Rates by Gender and Residence, Turkey 1988/2004



Source: SIS Database, 2004, SIS (2005).

Figure 2: Trends in Unemployment Rates by Gender and Marriage, Turkey 1988/2003<sup>5</sup>



Source: SIS Database, 2004

<sup>&</sup>lt;sup>5</sup> The unemployment rate data by marriage for 2004 were not available when this article written.

APPENDIX
Table 1: Summary Statistics of the Variables for Each Transition Model by Gender

		Emplo	yment			Unemple	oyment			Out of Lab	or Ford	e
	N	len	Wo	men	N	len .	Wo	men	N	len	Wo	men
	Mean	Std. Dev	Mean	Std. Dev	Mean	Std. Dev	Mean	Std. Dev	Mean	Std. Dev	Mean	Std. Dev
urban	0.735	0.441	0.557	0.497	0.834	0.372	0.896	0.305	0.790	0.407	0.802	0.399
married	0.832	0.374	0.636	0.481	0.595	0.491	0.389	0.488	0.463	0.499	0.728	0.445
Marmara	0.242	0.428	0.219	0.414	0.242	0.428	0.298	0.458	0.221	0.415	0.235	0.424
Aegean	0.133	0.339	0.160	0.366	0.147	0.354	0.168	0.375	0.126	0.332	0.140	0.347
CentralAnatolia	0.152	0.359	0.114	0.318	0.204	0.403	0.210	0.408	0.179	0.383	0.171	0.377
Mediterrianean	0.141	0.348	0.207	0.405	0.111	0.315	0.166	0.372	0.181	0.385	0.168	0.373
BlackSea	0.144	0.352	0.140	0.347	0.126	0.332	0.085	0.280	0.129	0.335	0.116	0.320
EastAnatolia	0.109	0.312	0.105	0.306	0.079	0.270	0.021	0.143	0.108	0.311	0.116	0.320
SouthEastAnatolia	0.079	0.270	0.055	0.229	0.090	0.287	0.052	0.222	0.073	0.260	0.080	0.272
Non-Graduate	0.056	0.230	0.205	0.404	0.060	0.238	0.091	0.288	0.087	0.282	0.229	0.420
PrimarySchool	0.526	0.499	0.431	0.495	0.547	0.498	0.365	0.482	0.352	0.478	0.516	0.500
MiddleSchool	0.134	0.341	0.067	0.250	0.132	0.338	0.140	0.347	0.283	0.451	0.108	0.311
HighSchool	0.122	0.327	0.107	0.309	0.136	0.343	0.228	0.420	0.164	0.370	0.094	0.292
VocHighSchool	0.069	0.253	0.062	0.241	0.064	0.244	0.091	0.288	0.064	0.246	0.031	0.173
Twoyear Univ.	0.022	0.146	0.029	0.167	0.029	0.168	0.023	0.151	0.019	0.135	0.008	0.087
Fouryear Univ. Plus	0.072	0.258	0.099	0.299	0.032	0.177	0.047	0.211	0.032	0.175	0.014	0.117
age1519	0.068	0.251	0.124	0.330	0.137	0.344	0.187	0.390	0.364	0.481	0.146	0.354
age2024	0.062	0.242	0.148	0.355	0.202	0.402	0.275	0.447	0.122	0.327	0.107	0.309
age2534	0.262	0.440	0.242	0.428	0.253	0.435	0.306	0.461	0.079	0.270	0.225	0.418
age3544	0.327	0.469	0.256	0.437	0.217	0.413	0.166	0.372	0.058	0.233	0.223	0.416
age4554	0.192	0.394	0.144	0.351	0.142	0.349	0.054	0.227	0.154	0.361	0.173	0.378
age55pl	0.088	0.284	0.086	0.280	0.049	0.216	0.013	0.113	0.223	0.417	0.126	0.331
Unemprate	0.106	0.052	0.099	0.048	0.093	0.033	0.093	0.029	0.079	0.036	0.077	0.035
occup1	0.084	0.277	0.133	0.339	0.028	0.165	0.057	0.232	0.047	0.212	0.018	0.132
occup2	0.032	0.175	0.011	0.107	0.013	0.115	0.000	0.000	0.015	0.121	0.002	0.040
occup3	0.065	0.246	0.115	0.319	0.025	0.155	0.119	0.324	0.045	0.206	0.024	0.153
occup4	0.162	0.369	0.062	0.241	0.110	0.314	0.070	0.255	0.072	0.259	0.012	0.107
occup5	0.128	0.335	0.078	0.269	0.117	0.322	0.067	0.251	0.091	0.288	0.015	0.121
occup6	0.160	0.367	0.436	0.496	0.098	0.298	0.060	0.237	0.105	0.307	0.109	0.312
occup7	0.362	0.481	0.156	0.363	0.494	0.500	0.135	0.342	0.244	0.430	0.040	0.196
occup8	0.006	0.080	0.008	0.092	0.009	0.094	0.008	0.088	0.009	0.094	0.003	0.056
status1	0.469	0.499	0.401	0.490	0.369	0.483	0.383	0.487	0.345	0.476	0.084	0.277
status2	0.118	0.323	0.068	0.252	0.324	0.468	0.070	0.255	0.090	0.287	0.021	0.144
status3	0.001	0.024	0.010	0.099	0.000	0.000	0.018	0.134	0.000	0.014	0.002	0.045
status4	0.082	0.274	0.013	0.112	0.025	0.155	0.000	0.000	0.019	0.137	0.001	0.027
status5	0.270	0.444	0.141	0.348	0.134	0.341	0.021	0.143	0.114	0.318	0.031	0.174
status6	0.060	0.237	0.368	0.482	0.042	0.202	0.000	0.000	0.060	0.237	0.084	0.277
PublicSector	0.205	0.404		0.374								
	0.203	0.404	0.168	0.374								
duration13					0.541	0.499	0.360	0.481				
duration46					0.205	0.404	0.233	0.423				
duration612					0.163	0.369	0.236	0.425				
duration1224					0.055	0.227	0.124	0.330				
duration24pl					0.037	0.188	0.047	0.211				
Personally					0.926	0.261	0.785	0.411				
Friendsetc					0.715	0.452	0.775	0.418				
Newspapers					0.082	0.275	0.067	0.251				
Employment Office					0.078	0.268	0.098	0.298				
Workersagent					0.025	0.155	0.010	0.101				
Try to provide own Eq.					0.020	0.140	0.005	0.072				
Othermethods					0.013	0.115	0.010	0.101				
q2q2	0.514	0.500	0.552	0.497	0.478	0.500	0.562	0.497	0.614	0.487	0.661	0.473
	I		4007		897		386		5227		15357	