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Wage mobility in Israel: the effect of sectoral concentration

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Abstract
Using a unique eight-year data set, merging population census and national insurance data, the paper examines and compares patterns of wage mobility in Israel. First, the public and the private sectors are compared. Second, within each of these sectors, a distinction is made between sub-sector groupings that exhibit a high level of concentration and those that are more diffuse and unregulated. Based on alternative measures of wage mobility, the central finding of the paper is that the extent of wage mobility in a given economic sector is negatively related to the degree of concentration in that sector.

Keywords: wage mobility, concentration, economic sectors, Israel

JEL codes: J3, J6, L5

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* Also associated with the CEPR, London

# Also associated with IZA, Bonn
1 Introduction

The central hypothesis of this paper is that the extent of wage mobility in a given economic sector is related to the degree of concentration and regulation in that sector: the greater the extent of concentration the lower will be the expected level of wage mobility. The relationship between the degree of concentration and labor market regulation on the one hand, and wage mobility on the other, has been examined in earlier studies (a recent example is provided in Cardoso, 2006) but these studies have taken the form of international comparisons of differing types of economies as a whole rather than being located at the sectoral level within a given country. This macro-level analysis may be regarded as problematic because it is influenced by numerous macro-economic variables (such as economic growth, unemployment level and inflation) which may affect mobility patterns. As far as is known, the research reported here is the first of its kind, in analyzing the relationship between wages mobility and the degree of concentration and regulation at the sectoral level.

Using a unique eight-year combined data set (matching Israeli Census data with detailed wages information from the National Insurance Institute), the paper examines patterns of wage mobility in Israel in two differing types of sectors: those that exhibit a high level of concentration and significant regulation and those that are more diffuse and unregulated. Also, this association should be evident in sub-sectors, within both the public and the private sectors: more concentrated and regulated sectors are expected to be associated with lower wages mobility.

2 Background

It has been argued in the literature that more centralized labor markets with stricter regulations should exhibit lower wage mobility (e.g., Gottschalk 1997). This lower wage mobility would be explained partly by more continuous work histories and a lower tendency to change working places. Empirical evidence is scarce. The findings of international comparisons of labour markets, between countries, have not supported this view. Burkhauser et al. (1997) find similar mobility levels in the U.S. and
Germany. Aaberge et. Al. (2002) report lower mobility in the U.S. compared with the Scandinavian countries. The OECD (1997) found similar mobility levels in the U.S. and the U.K. and Cardoso (2006) concludes that the contrasting labour markets in the U.K. and in Portugal are not significantly different in terms of wage mobility.

A potential methodological and statistical problem that underlies these comparative studies is that the countries that have been examined and compared are very different in many macro economic aspects (business cycles, unemployment, growth, inflation and more). These factors, which might well affect wage mobility, have not been considered or controlled for. Unless we control for these differences, it cannot be concluded that stricter regulation does not lead to lower wage mobility.

The present study overcomes this potential problem which might bias the results, by examining different sectors within the same economy over a given time interval. Since all macro effects are held constant, sector-specific institutional effects are responsible for differences in the degree of wage mobility between economic sectors.

While the wide international empirical literature on wage mobility has focused on measuring wage mobility for whole economies and comparisons between countries, the pioneering study of wages mobility in Israel by Romanov and Zussman (2003) did include a sectoral dimension, though this was not its main focus. Using income-tax administrative data for 1993-1996, they examined the differing patterns of wage mobility in a number of directions over this three-year period, including a comparison of wage mobility in the public and private sectors. However, the research did not examine the effect of concentration and regulation on sectoral wage mobility.

Unusually, Romanov and Zussman reported greater wage mobility in the public sector than in the private sector; this contrasts with the generally accepted assumption of greater wage stability in the public sector (for example, this is confirmed for Austrian data in Raferzeder and Winter-Ebmer, 2006). However, there may be a compositional issue here. This is because both the private and the public sector are internally diverse, with each containing contrasting sub-sectors in terms of concentration and regulation. Thus wage mobility will be influenced not only by the public-private sector divide but also by the degree of sub-sectoral
concentration within both the private and the public sectors. In this paper we confirm, with Israeli data, that wage mobility is greater in the private than in the public sector. But when these two sectors are broken down into concentrated and non-concentrated groupings, we observe that for both the public and private sectors, wage mobility in the low concentrated sub-sector grouping substantially exceeds wage mobility in the highly concentrated sub-sector grouping. The level of concentration is a more potent force explaining mobility than is the public – private divide.

3 Research objectives

The aim of the research reported in this paper is to measure and compare patterns of wage mobility for four different sectoral groupings, based on the extent of concentration. The common finding that private sector wage mobility exceeds wage mobility in the public sector is tempered by our working assumption that workers employed in sectors with greater concentration (whether private or public) will experience less wage mobility than those in low concentrated sectors. The private sector low-concentrated sectors include such sub-sectors as computer services and hi-tech; the public low concentrated sector includes public administration. Sectors of high concentration are typified by commercial banking (private) and public monopolies such as water and electricity.

Thus, wages mobility is expected to display the following pattern:

Private sector > public sector
Private sector, low concentration > private sector, high concentration
Public sector, low concentration > public sector, high concentration
Low concentrated public & private sectors > high concentrated public & private sectors

4 Data base

The study is based on a newly compiled, combined database, which provides information on individual labor market histories over a thirteen-year period. Individual
background information from the 1995 Population Census is matched with data on individual work histories from the National Insurance Institute (NII) administrative records; this forms an extensive database covering some 20% of the Israeli population (Neuman and Ziderman, 2003).1

The NII compiles information on individuals’ annual wages from all employers and on employment start and finish dates for each period of continuous work. The NII data were linked to data on personal characteristics for a sample of individuals from the 1995 Census. The Census of Population is the most comprehensive source of demographic and socio-economic data on the Israeli population. The extended questionnaire, filled out by 20 percent of the population, provides information, for all individuals aged 15 and over, a series of socio-economic variables, including gender, sector of employment and monthly wage. Data from the 20 percent sample were matched with individual work profiles and wages data from the NII, for a period of thirteen years. This new joint data source constitutes a unique longitudinal data set on wages and work histories of a large representative sample of the Israeli population of working age, during the years 1983-1995.

Our data set may be seen as an improvement on that used by Romanov and Zussman in their study of labor income mobility for Israel in 1993-96: it covers many more years and uses non-truncated earnings data (see below). More important, our study employs finer sectoral breakdowns.

While the data set contains data for the time period of 1983-1995, the analysis of wage mobility is restricted to the years 1988-1995. Income data for 1983-1987 is problematic and not compatible with the 1988-1995 period data, for a number of reasons:

- The change in 1987 of the beginning of the calendar year: it was April up to 1987 and then it changed to January subsequently;

- A national minimum wage was introduced in 1987;

- During the first half of the 1980s, inflation in the Israeli economy rose to unprecedented records, with a peak of over 400% in 1984. The stabilization program, introduced in 1985, brought inflation down dramatically to 19.7% in 1986 and to less than 20% in each of the years of our study.
Hyperinflation has macro economic effects on wage structures that are difficult to control for. The time period used in the analysis (1988-1995) is much more homogenous with relatively reasonable inflation rates.

The analysis uses annual wages information from the NII Administrative Records, rather than wages data from the Census. In general, administrative tax data are more reliable than those reported by individuals in surveys; the use of direct administrative data collection in this study ensures that measurement errors are minor. Administrative income tax records are sometimes censored, both at the bottom (individuals who are below the minimum contribution level and do not pay taxes are not registered) and at the top (due to contribution ceilings or confidentiality measures). Obviously, the use of such truncated samples compromises the validity of empirical studies of inequality and mobility. The data set used in our study contains wages for all employees, including workers at the bottom and at the top of the wage distribution. Problems associated with truncated samples are thus avoided.

The NII records include information on annual wages (which is deflated and expressed in 1995 prices). Information on number of hours of work is not available. To overcome this problem, the empirical wage analysis is restricted to a homogenous sample of full-year, full-time workers (in 1995) who had a continuous attachment to the labor market over the time period under discussion. Work history information (Neuman and Ziderman, 2003) facilitated the identification of respondents with a stable, continuous link to the labor market. To justify the use of annual wage earnings (not controlling for hours) we also make the assumption that workers employed full time in 1995 (when we have detailed personal data) had the same work load also in 1988-1994. This is most probably the case for male workers. Because we are less confident that this assumption holds for women, they are not included in the analysis.

Workers may have switched sectors during the period under scrutiny. Since mobility between economic sectors represents an alternative channel for wage mobility, the analysis includes only those workers who have worked continuously over the eight-year period 1988-1995, without even one short work break. It is rare for a worker to move to another sector without a break in employment, so that the
effect of including only continuously employed workers is to wean out of the data set workers who have been mobile between economic sectors over the period.

The analysis is restricted to Jewish individuals between the ages of 32-65 in 1995. The lower age limit is chosen in order to exclude respondents who were under the age of 25 in 1988 and may have been serving in the armed forces. The upper limit is set to include only individuals who have not reached formal retirement age (65 for men, at that time). Immigrants who arrived after 1983 are excluded from the sample, to ensure that all immigrants included in the study had at least five years to learn the language and to adjust to the Israeli labor market.

The remaining sample of 25,713 individuals was assigned to employment in either the public or private sector, based on the Standard Industrial Classification (SIC). After dropping individuals employed in mixed (private-public) SIC industrial categories, the remaining sample of 22,298 males was distributed as follows: 6,341 in the public sector and 15,957 in the private sector.

SIC industries were assigned to one of four sectoral groupings (Private sector, low concentration; Private sector, high concentration; Public sector, low concentration; and Public sector, high concentration), based on the extent of concentration in that sector in 1995. The concentration ratio (CR3) refers to the share in total sectoral sales of the three largest concerns in the sector. Sectors with concentration ratios of less than 25% were defined as of low concentration, while those sectors with concentration ratios in excess of 50% were designated as highly concentrated sectors. Sectors with concentration ratios in the 25-50% range, and those sectors that could not be specified, were excluded from the analysis (11,184 workers).

The final sample, on which the analysis is based, totaled 11,114. These are distributed amongst the four sectoral groupings, as follows:

- Private sector, low concentration: 4,836
- Private sector, high concentration: 2,038
- Public sector, low concentration: 2,963
- Public sector, high concentration: 1,277
Further details on the sample distribution by SIC classification are provided in Appendix Table 1.

5 Wage mobility measures

Two measures are employed to measure relative wage mobility, in terms of changes in the position of the workers in the wage distribution over the defined period:

Mobility matrix (wage quintiles)

The first measure provides a broad indication of such wages movement, reporting the percentage of workers that switched their rank in the wage distribution between the initial and final periods. Partitioning the worker sample into wage quintiles in the two years 1988 and 1995, the wage mobility matrix shows movement of workers between wage quintile categories over the seven year period. The more workers that change rank in the wage distribution (i.e. move to a different quintile), the greater is the extent of wage mobility. Workers who remain in the same quintile in both years (i.e. lie on the matrix diagonal) display no wage mobility. Wage mobility (off the diagonal) may be upward (moving to a higher wage quintile) or downward (moving to a lower wage quintile).

Spearman Rank Correlation Coefficient (S)

This is the well-known non-parametric measure of correlation equivalent to the Pearson correlation coefficient but computed on rank position rather than levels of a variable.\(^3\)

\[
S = 1 - \frac{6 \sum_{i=1}^{N} (rank_{it} - rank_{is})^2}{N(N^2 - 1)}
\]

Rank\(_{it}\) and rank\(_{is}\) are percentile ranks of worker \(i\) in the wage distribution in time period \(t\) and \(s\), respectively. \(N\) is the total number of workers in the sample. \(S\) is a
measure of wage immobility and ranges between zero (no wage immobility, i.e. maximal wage mobility) and unity (maximum wage immobility, i.e. no wage mobility). We compute alternative measures of $S$ for $t$ and $s$ that are one and four years apart, i.e. wage mobility over one year and four year time periods.

6 Findings

Wage mobility in the public and private sectors, overall

We first examine wage mobility in the public and private sectors as a whole. Mobility matrices for wage quintiles are shown in Table 1. More detailed, wage decile, matrices are shown in Appendix Table 2. Both sets of matrices confirm that wage mobility in the private sector exceeds wage mobility in the public sector.

The figures shown on the diagonals (in bold) represent the percentages of workers who are in the same wages quintile in the initial and final year. These diagonal values are consistently higher in the public sector matrix than in the private sector matrix, reflecting greater wage immobility in the public sector (greater wages mobility in the private sector). For example, 49.76 percent of public sector workers in the second wage quintile in 1988, remained in that quintile eight years later, compared with 43.21 percent of workers in the private sector.

Table 1 relates to wage mobility over seven years. The Spearman Rank Correlation Coefficient ($S$) provides a more compact, synthetic measure of wage mobility. In Figure 1 we plot $S$ coefficients for successive one and four year periods, for both the private and public sectors. Since $S$ provides a measure of wage immobility, the lower is the curve, the higher is the level of wage mobility. The curves in the upper section of Figure 1, relating to successive one-year mobility periods, intertwine - indicating little difference in measured wage mobility between the two sectors. However, as the time interval over which $S$ is measured is increased, wage mobility is seen to be greater.4 For four-year time periods shown in the lower part of the figure wage mobility shown to be very much higher in both sectors; $S$ ranges from 0.92 to 0.96 for one-year wage
mobility and from 0.84 to 0.89 for four-year wage mobility. More important, private sector wage mobility is substantially in excess of wage mobility in the public sector, confirming results from other wage mobility studies.

Table 1
Wage mobility matrices
Public versus private sectors, 1988-1995

<table>
<thead>
<tr>
<th>Public Sector</th>
<th>Wage quintile in 1995</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>Wage quintile in 1988</td>
<td></td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>67.77</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>23.26</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>4.73</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>2.44</td>
</tr>
<tr>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>1.81</td>
</tr>
<tr>
<td>Wage quintile in 1988</td>
<td>Wage quintile in 1995</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td></td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>65.41</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>24.37</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>5.92</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>2.82</td>
</tr>
<tr>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>1.47</td>
</tr>
</tbody>
</table>
Figure 1
Earnings (im)mobility (Spearman rank correlation coefficient), private versus public sectors, Israel, 1988-1995.

* The x-axis indicates the end year.
**Wage mobility: the role of sectoral concentration**

Both the public and private are internally diverse; in each case, parts of the sector is highly concentrated while other parts display low concentration. How does concentration affect wages mobility in these sub-sectors?

Wage mobility matrices for 1988-1995, based on decile transitions, are computed for each of the four sub-sectors: Private sector, low concentration; Private sector, high concentration; Public sector, low concentration and Public sector, high concentration. Detailed transition wage matrices are given in Appendix Table 3; the results are summarized in Table 2. For ease of comparison, only the diagonal cells of the decile matrices (representing wages immobility) are presented in the table; the lower are the values of these cells, the greater is wage mobility.

The importance of partitioning the public and private sectors by extent of concentration is apparent from the Table 2 results. For both the private and public sector groupings, wage mobility in the low concentration sub-sector exceeds that in the high concentration sub-sector. This result is consistent for virtually all decile pairs, both public and private (the one exception is the fifth decile in the public sector grouping).
Table 2

Wage mobility matrices for public and private sector groupings, diagonal cells

Decile transition, 1988-1995

<table>
<thead>
<tr>
<th>Percentage of workers in each decile remaining in the same decile</th>
<th>Sectoral Grouping</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Private</td>
<td>(1)</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td>Low concentration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; decile</td>
<td>52.7</td>
<td>61.3</td>
<td>53.5</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt; decile</td>
<td>31.4</td>
<td>37.3</td>
<td>26.4</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt; decile</td>
<td>22.4</td>
<td>28.4</td>
<td>25.7</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>21.1</td>
<td>24.0</td>
<td>22.6</td>
</tr>
<tr>
<td>5&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>16.6</td>
<td>22.7</td>
<td>25.7</td>
</tr>
<tr>
<td>6&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>16.5</td>
<td>23.9</td>
<td>25.0</td>
</tr>
<tr>
<td>7&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>19.6</td>
<td>28.1</td>
<td>23.9</td>
</tr>
<tr>
<td>8&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>24.2</td>
<td>29.9</td>
<td>30.1</td>
</tr>
<tr>
<td>9&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>33.5</td>
<td>40.2</td>
<td>37.8</td>
</tr>
<tr>
<td>10&lt;sup&gt;th&lt;/sup&gt; decile</td>
<td>54.7</td>
<td>67.0</td>
<td>58.5</td>
</tr>
</tbody>
</table>
The table also shows that the finding of higher wage mobility in the private than the public sector, noted in the previous section, is generally preserved even after partitioning on the basis of concentration. For low concentration sectors, the value in Column (3) exceeds that in Column (1) for each decile (except for the second decile). Similar results are found for highly concentrated sectors, shown in Columns (4) and (2): exceptions are deciles 5 and 7.
Figure 2
Earnings (im)mobility (Spearman rank correlation coefficient), by sector: private high and low concentration, public high and low concentration, Israel, 1988-1995.

* The x-axis indicates the end year.
These findings are generally consistent with the Spearman rank correlation coefficients, for the four sub-sector groupings, that are plotted in Figure 2.

The upper panel relates to one-year wage mobility. Low-concentrated private and public sub-sectors each display greater earnings mobility than their high-concentration counterpart sub-sectors; this confirms our finding that the level of sub-sectoral concentration plays a central explanatory role in accounting for between sectoral differences in wage mobility. However, little difference is displayed in wage mobility between either of the two low concentration or the high concentration sub-sectors.

S curves for four-year periods are plotted in the lower panel of Figure 2. Again, for both the private and the public sectoral divisions, wage mobility is greater in the low-concentration sub-sector than in the high-concentration sector. While high concentration public and private sub-sector curves still coincide (as for the one-year curves), clear differences in the low concentration curves now emerge; wage mobility in the low concentrated private sector grouping is significantly greater than wage mobility in the low concentration public sector. Overall, the effect of sectoral concentration dominates over the public/private sectoral division, in accounting for wage mobility differences.
References


<table>
<thead>
<tr>
<th>Low Concentrated</th>
<th>High Concentrated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public administration</strong></td>
<td><strong>Public: monopolistic</strong></td>
</tr>
<tr>
<td>(sample size = 2963)</td>
<td>(sample size = 1277 )</td>
</tr>
<tr>
<td>SIC digit</td>
<td>SIC classification</td>
</tr>
<tr>
<td>77</td>
<td>Public administration</td>
</tr>
<tr>
<td>410, 610</td>
<td>Water</td>
</tr>
<tr>
<td>650</td>
<td>National port and national courier activities</td>
</tr>
<tr>
<td><strong>Private: low concentrated</strong></td>
<td><strong>Private: high concentrated</strong></td>
</tr>
<tr>
<td>(sample size = 4836)</td>
<td>(sample size = 2038)</td>
</tr>
<tr>
<td>SIC digit</td>
<td>SIC classification</td>
</tr>
<tr>
<td>17</td>
<td>Textiles</td>
</tr>
<tr>
<td>18</td>
<td>Outwear (not knitted)</td>
</tr>
<tr>
<td>19</td>
<td>Footwear, leather</td>
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<tr>
<td>202</td>
<td>Builders’ carpentry</td>
</tr>
<tr>
<td>222</td>
<td>Printing</td>
</tr>
<tr>
<td>224</td>
<td>Publishing recorded media</td>
</tr>
<tr>
<td>246</td>
<td>Soap, detergents</td>
</tr>
<tr>
<td>248</td>
<td>Builders’ carpentry</td>
</tr>
<tr>
<td>25</td>
<td>Plastic and rubber products</td>
</tr>
<tr>
<td>260-262</td>
<td>Glass, ceramics</td>
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<tr>
<td>28</td>
<td>Metal products</td>
</tr>
<tr>
<td>29</td>
<td>Machinery and equipment</td>
</tr>
<tr>
<td>30</td>
<td>Office machinery and computers</td>
</tr>
<tr>
<td>31</td>
<td>Electric motors</td>
</tr>
<tr>
<td>32</td>
<td>Electronical components</td>
</tr>
<tr>
<td>350-351</td>
<td>Motor vehicles, bodies and parts</td>
</tr>
<tr>
<td>36</td>
<td>Furniture</td>
</tr>
<tr>
<td>38</td>
<td>Jewelry, gold and silver articles</td>
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<tr>
<td>390-395</td>
<td>Manufacturing n.e.c.</td>
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<tr>
<td>450-458</td>
<td>Building</td>
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<tr>
<td>501-502</td>
<td>Motor vehicles sales and repair</td>
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<td>550</td>
<td>Hotels</td>
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<tr>
<td>550-563, 568</td>
<td>Restaurants, dining services</td>
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<tr>
<td>633</td>
<td>Travel and tourist agencies</td>
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<tr>
<td>720-723</td>
<td>Computers</td>
</tr>
<tr>
<td>760-761, 763</td>
<td>Business activities</td>
</tr>
</tbody>
</table>
## Appendix Table 2

### Mobility matrices, decile transition

#### Private and public sectors, 1988-1995

<table>
<thead>
<tr>
<th>From decile</th>
<th>To decile</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<td>Private</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>55.35</td>
<td>20.10</td>
<td>9.02</td>
<td>4.51</td>
<td>3.07</td>
<td>2.13</td>
<td>1.82</td>
<td>1.44</td>
<td>1.25</td>
<td>1.31</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>22.51</td>
<td>32.85</td>
<td>19.87</td>
<td>11.29</td>
<td>5.96</td>
<td>3.01</td>
<td>1.69</td>
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<td>0.88</td>
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<td>7.27</td>
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<td>2.51</td>
<td>1.19</td>
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<td>4</td>
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<td>11.71</td>
<td>21.10</td>
<td>21.73</td>
<td>16.78</td>
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Appendix Table 3

Mobility matrices, decile transition

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1988-1995
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Public high concentration
Footnotes

1 Buchinsky et al., (2003) claim that “for no other country in the world is such information (administrative records) available for a nationally-representative sample of the working population” (page 2). Clearly, they were unaware that such a data set has been available in Israel since 2002.

2 The assignment of sectors into low and high concentration was based on the various sources. For the private sector, information on CR3 in Manufacturing was provided by the Israel Antitrust Authority; the identification of CR3 for the Banking sector is based on data provided by the Bank of Israel; our general knowledge was used for such sectors as Restaurants, Hotels, Motor Vehicles Sales and Repair, which are composed of many small enterprises. For the public sector, Public Administration, spread through numerous government offices and service centres, is defined as low concentrated; public monopolies that are country-wide, are highly concentrated. Sectors that are ambiguous with regard to level of concentration were excluded from the low-high concentration comparison.

3 For an explanation of Spearman’s rho, see Conover (1999), p. 314-315

4 A number of studies have been restricted to one-year wage mobility measures, usually because of (longitudinal) data limitations; the use of such short time horizons are unlikely to produce reliable findings. Two and three year wage mobility graphs are available from the authors

5 Clearly, S curves relating to two and three year time periods lie between the curves plotted in Figure 1.
Bar-Ilan University  
Department of Economics  
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