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The Labor Market in the Great Recession: An Update

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The Labor Market in the Great Recession: 
An Update

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**The Labor Market in the Great Recession:**

**An Update**

*This version: October 24, 2011*

**ABSTRACT:** Since the end of the Great Recession in mid-2009, the unemployment rate has recovered slowly, falling by only one percentage point from its peak. We find that the lackluster labor market recovery can be traced in large part to weakness in aggregate demand; only a small part seems attributable to increases in labor market frictions. This continued labor market weakness has led to the highest level of long-term unemployment in the U.S. in the postwar period, and a blurring of the distinction between unemployment and nonparticipation. We show that flows from nonparticipation to unemployment are important for understanding the recent evolution of the duration distribution of unemployment. Simulations that account for these flows suggest that the U.S. labor market is unlikely to be subject to high levels of structural long-term unemployment after aggregate demand recovers.

**Keywords:** Labor market dynamics, long-term unemployment, unemployment duration.

**JEL codes:** E24, J2

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In the Spring 2010 volume of BPEA, we provided an analysis of U.S. labor market developments in the most recent recession (Elsby, Hobijn, and Şahin, 2011). We documented that, from the perspective of a wide range of labor market outcomes, the 2007-2009 recession caused the deepest labor market downturn in the postwar era. In the present paper, we update that earlier work and also provide new analyses and results regarding the extent and persistence of long-term unemployment in the aftermath of the recession.

Section 1 provides a summary update of our original work, focusing on indicators of labor market adjustment such as Okun’s Law and the Beveridge Curve. We also discuss recent research regarding the implications of these indicators for the extent of structural unemployment and conclude that it appears to be limited. Section 2 extends our earlier analyses by describing a set of new facts about unemployment inflows and outflows, which determine the evolution of the unemployment rate and its duration distribution. We document a sharp increase since the recession in the incidence of measured monthly inflows to unemployment at reported durations that substantially exceed one month, which appears to reflect a rising incidence of reporting error in regard to labor force status and the continuity of periods spent unemployed. Based on this more complete characterization of net flows, in Section 3 we update the simulation of unemployment dynamics presented in Elsby, Hobijn, and Şahin (2010). The results of this simulation indicate that long-term unemployment will largely dissipate if exit rates for the short-term unemployed recover, reinforcing our conclusion that the current extent of structural unemployment is quite limited.

1. Update on labor market adjustment

The labor market downturn that accompanied the 2007-2009 recession was the most severe experienced in the postwar era, and the subsequent recovery has been tentative and uneven. The most adversely affected groups include men in general as well as younger, less educated workers and individuals from ethnic minorities. Starting in early 2010, labor market conditions have begun to recover slowly. The unemployment rate, which peaked at 10.1%, fell to 9.1%, still 4.6 percentage points above pre-recession levels. Of the groups that experienced larger increases in their
unemployment rates during the recession, most have subsequently seen relatively larger declines in their unemployment rates, i.e. men, younger workers, and Hispanic workers (Table 1).¹

In our earlier paper, we showed that the nature of labor market adjustment until mid-2009 had displayed a notable resemblance to that observed in past severe downturns. However, the evolution of indicators of real activity and the labor market began to diverge from past patterns starting in 2009. We summarized this divergence in the context of Okun’s Law and the Beveridge Curve, and concluded that labor market conditions were weaker than implied by historical relationships between real activity and the labor market. Since then, there have been downward revisions to both GDP and the job-openings rate. In addition, the recovery in GDP and job openings slowed considerably in the first half of 2011 while the unemployment rate fell by about a percentage point. These developments brought the Okun’s Law relationship in line with historical observations and narrowed the divergence in the Beveridge Curve relationship.²

Even though measures of real activity and the labor market are now better aligned compared with late 2009, recent observations on unemployment and job vacancies imply a rightward shift in the Beveridge Curve of around 2.7 percentage points.³ Based on a search and matching model that incorporates incentives for vacancy creation, this rightward shift is consistent with an increase in the natural rate of unemployment of about 0.5 to 1.5 percentage points (see Barnichon, Elsby, Hobijn, and Şahin, 2011, and Daly, Hobijn, Şahin, and Valletta, 2011). This shift and the implied increase in the natural rate have been interpreted by us and others as evidence of the growing importance of structural factors in the persistently high unemployment rate (see for example Kocherlakota, 2010). In our earlier paper, we identified potential causes of this deviation and evaluated three factors: 1. skill mismatch; 2. geographic mismatch arising from house-lock; and 3. emergency unemployment compensation.

There has been a substantial amount of research done to address the quantitative importance of these channels since early 2010. Our view, which is informed by reviewing the recent literature, as well as some of our own work, can be summarized as follows:

¹ Two important exceptions to this pattern were workers with less than high-school education and black workers. Workers with less than a high-school diploma saw only a 0.6 percentage point decline in their unemployment rate after a huge 8.3 percentage-point rise during the recession. And following its initial surge, the unemployment rate of black workers has increased further, by 0.3 percentage points.
² See Figures A1 and A2 in the accompanying web appendix.
³ See Figure A3 in the web appendix.
1. Skill mismatch likely has contributed about 1 percentage point to the increase in the unemployment rate, with the range of estimates varying from about 0.25 to 1.75 percentage points (Barnichon and Figura, 2011; Estevão and Tsounta, 2011; Daly, Hobijn, Şahin, and Valletta, 2011; Şahin, Song, Topa, and Violante, 2011). However, available evidence suggests that the increase in unemployment that can be attributed to skill mismatch is not structural. Şahin et al. study a range of measures of mismatch, reflected by the imbalance of vacancy and unemployment shares across sectors and occupations. While these measures began rising from 2007 until the end of the recession in mid-2009, they have declined significantly since then, suggesting that the impact of mismatch will largely disappear as the recovery proceeds. This pattern is consistent with dispersion in the sensitivity of sectoral activity to aggregate demand fluctuations (e.g. Abraham and Katz, 1986), but further research is needed to study the deep causes of mismatch.

2. The role of geographic mismatch and the house-lock mechanism has been quantitatively negligible (Daly, Hobijn, Şahin, Valletta, 2011; Molloy, Smith, and Wozniak, 2010; Şahin, Song, Topa, and Violante, 2011; Valletta 2010). The observation that the interstate migration rate declined during the recession was cited by some as motivating evidence for the importance of geographic mismatch. However, Kaplan and Schulhofer-Wohl (2010) have shown that the significant drop reported in the annual interstate migration rate between 2005 and 2006 in the Current Population Survey was a statistical artifact arising from the procedure the Census Bureau used to handle missing data. The corrected data show that interstate migration has been trending downward for many years. Relative to that trend, there was no additional decrease in interstate migration during the December 2007 to June 2009 period.

3. Recent research on the effect of Emergency Unemployment Compensation (EUC) has shown that EUC has likely had an impact on the evolution of the natural rate of unemployment. While estimates range from 0.3-3 percentage points, most studies find an effect of around 1 percentage point or less. (See Aaronson, Mazumder, and Schecter, 2010; Farber and Valletta, 2011; Fujita, 2010; Nakajima, 2010; Rothstein, 2011; Valletta and Kuang, 2010; and Valletta, 2010).

To summarize, recent research indicates that skill mismatch and EUC have contributed to the deviation in the Beveridge Curve. However, because this deviation of the Beveridge Curve has occurred at very low levels of vacancies, it is difficult to separate shifts in the curve that reflect an
increase in matching frictions from short-term cyclical adjustments back toward the curve’s initial position; at low vacancies, along the flat portion of the curve, small increases in vacancies imply a large deviation from the prior position of the curve. The existing evidence that we cite above suggests that the cyclical component has been much more important than the increase in frictions, and that the latter will dissipate as the labor market recovery progresses and the EUC extensions are eliminated.

The continued weakness of the labor market thus appears mainly to be due to the continued shortfall in aggregate demand. The modest recovery in labor demand has been too weak to generate a substantial decline in the unemployment rate.

An ongoing development that appears at odds with our claim of limited matching frictions is the observation that the U.S. is experiencing a record level of long-term unemployment, which has intensified rather than improved during the two years since the recession ended. This can be seen from Figure 1, which plots the unemployment rate decomposed into six duration groups. As of July 2011, 4 percent of the labor force reported that they had been unemployed for more than six months, with three quarters of those unemployed for more than a year. The extent and persistence of long-term unemployment raises the concern that the U.S. might develop a long-term unemployment problem of the type that many European countries experienced after the severe recessions of the 1970s and 1980s (referred to as “Eurosclerosis”). However, in the next two sections we provide new evidence indicating that the risk of the U.S. developing its own version of Eurosclerosis—which we term “Ameriscerosis”—is not likely, based on our updated and extended analysis of net unemployment flows and simulations of the resulting unemployment dynamics.

2. Unemployment inflows and outflows reconsidered

In Elsby, Hobijn, and Şahin (2010) we used a labor market flows framework to discuss the evolution of the U.S. labor market during the Great Recession. A first clue to the potential sources of recent developments in the unemployment rate can be gleaned from an anomaly that has emerged in the behavior of two leading measures of these unemployment flows.

The first measure constructs flow transition probabilities from the longitudinally-matched individual-level data in the Current Population Survey (CPS). For example, the unemployment-to-employment transition probability can be estimated using these data by computing the fraction of
the unemployed in a month who subsequently report they are employed in the following month’s survey. Estimates of these aggregate transition probabilities for 1990 onwards are available from the Bureau of Labor Statistics (BLS, 2008), while pre-1990 estimates have been made available by Shimer (2007). A drawback of these estimated flows is that they appear to contain a large number of spurious transitions, especially between unemployment and non-participation.\footnote{See Poterba and Summers (1995) and references therein for a discussion of these spurious flows.}

A second measure of labor market flows can be inferred from the reported duration structure of unemployment (Perry, 1972; Shimer, 2007). This measure estimates the outflow rate from unemployment using cross-sectional data on the stock of unemployed workers, \( u_t \), and the number unemployed for less than 5 weeks, \( u_t^{<5w} \), rather than longitudinal microdata data on the flows. Using these data, Shimer (2007) computes the unemployment outflow hazard according to

\[
    f_t = -[\ln(u_{t+1} - u_{t+1}^{<5w}) - \ln(u_t)].
\]

Shimer’s outflow hazard can be interpreted as follows. First, one calculates the fraction of those unemployed this month who are still unemployed next month. If all inflows into unemployment consist of persons who report a duration of unemployment shorter than 5 weeks, then this fraction equals the number of persons unemployed next month, \( u_{t+1} \), minus those unemployed next month with a duration of unemployment shorter than 5 weeks, \( u_{t+1}^{<5w} \), expressed as a fraction of the number of currently unemployed, \( u_t \). Second, one transforms this one-month unemployment “survival” rate into a continuous-time outflow hazard. This is the unemployment outflow measure that we used for the majority of the analysis in Elsby, Hobijn, and Şahin (2010).

Figure 2 displays Shimer’s estimate of the outflow hazard together with the unemployment-to-employment transition rate, where each is plotted as a logarithmic deviation from its respective historical mean. As we noted in our original paper, historically these two measures have moved very closely together over the business cycle. Towards the end of the recession in mid-2009, however, a discrepancy emerged between the two series: Shimer’s measure exhibited a much larger cyclical downturn than the unemployment-to-employment transition rate.

What might account for this anomaly? A natural candidate is suggested by the observation that the outflow rate \( f_t \) not only captures flows from unemployment to employment due to people
finding jobs, but also flows from unemployment into non-participation. Thus, one might think that the recent deviation in Figure 2 reflects a decline in the number of unemployed dropping out of the labor force relative to those finding jobs. In fact, the opposite turns out to be the case. Figure 3 reveals that the flow transition rate from unemployment to non-participation has actually increased since the end of the recession, while that to employment has basically been flat. Far from raising the observed cyclical downturn in the estimated outflow hazard, this would tend to attenuate its cyclical amplitude relative to the unemployment-to-employment transition rate.

What turns out to be driving the discrepancy is that the outflow hazard is calculated under the natural assumption that everyone who flows into unemployment in a month reports a duration of unemployment of 5 weeks or less. This assumption is not borne out by the data.

To see this, consider Figure 4. It shows inflows into unemployment by reported duration as a share of the labor force. Historically, there have always been some inflows into unemployment at durations of 5 weeks or higher. Since the start of 2010, however, these inflows have increased in size and now comprise about half of the flows into unemployment. A quarter of the total inflows now reports durations of at least 6 months. Although in principle these flows should not exist, the reason they appear in the CPS can be traced to the way the survey records unemployment duration. In particular, nothing in the survey ensures that those who report that they are unemployed, but who were not classified as unemployed in the previous month’s survey, report a duration of unemployment of less than 5 weeks. As a result of these high-duration inflows, total inflows into unemployment exceed $u_{t+1}^{5w}$ in the longitudinally-matched data, particularly since 2010. Consequently, Shimer’s estimate of the outflow hazard has shown more of a cyclical decline than the outflow probabilities calculated based on the BLS (2008).5

There are a number of potential interpretations of this phenomenon. A natural candidate is that it reflects random measurement errors, either in labor force status, unemployment duration, or both (Poterba and Summers, 1995). Applying this interpretation, however, requires ignoring the clear cyclical pattern reflected in the recent sharp increase in these flows. The cyclical pattern suggests that these inflows may reflect something economically more meaningful about the labor market

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5 By the same token, the measure of the inflow rate into unemployment proposed by Shimer (2007), and used by us in our original paper, also misses these high duration inflows into unemployment, since it also is based on the number unemployed for less than 5 weeks. Consistent with this, Figure A4 in the accompanying web appendix shows that this measure of the inflow rate has reverted completely to its pre-recession level.
decisions of CPS respondents than just measurement error. Though a detailed analysis of who makes up these inflows at high durations is beyond the scope of this update, a couple of points are worth noting.

First, although approximately 60 percent of the inflows into unemployment at reported durations higher than one month originate from non-participation, only 25 percent of the inflows with duration less than one month originate from non-participation. These figures suggest that the majority of the high-duration inflows into unemployment are driven by individuals who stopped looking for work for some months and then started looking again in the survey month.\(^6\) When asked how long they have been looking for a job, it is quite plausible that they would report how long it is since they initially started looking, rather than when they resumed their search. Likewise, employment-to-unemployment flows at high durations are possible for individuals who took on a temporary or part-time job and continued looking for a better job while working.

Thus, one interpretation of these high-duration inflows is that they signal individuals who would like to work more but are not able to find jobs to their liking. Under this interpretation, for those flowing in from employment the lack of jobs has led them to commit to a temporary solution while continuing to seek better opportunities, while for those flowing in from non-participation the lack of jobs has reduced their search effort. The latter group could be reasonably considered as behaving as marginally attached to the labor force.

This brings us to the second aspect of these high duration inflows that is worth noting. The vast majority of those flowing in from non-participation and reporting durations in excess of one month were not classified as marginally attached when they were out of the labor force. As noted above, the increased incidence of these high-duration inflows since the recession ended suggests that this pattern does not solely reflect random measurement, but instead reflects periodic re-entry by individuals who are loosely attached to the labor market. If this interpretation is correct, it suggests that alternate measures of unemployment that include the marginally attached, like U5 and U6, have been understating the actual amount of labor underutilization since the recession ended.

The pattern of inflows into unemployment at reported durations exceeding one month that we uncovered is important not only for understanding anomalies that have recently emerged in

\(^6\) This is also consistent with the observation that non-participants have continued to flow into unemployment at an increasing rate since the end of the recession. See Figure A5 in the accompanying web appendix.
estimates of unemployment flows, it is essential for understanding the dynamics of the duration distribution of unemployment and thus the dynamics of the long-term unemployment rate. We turn to this issue in the next section.

### 3. Long-Term Unemployment: Ameriscerosis?

In Elsby, Hobijn, and Şahin (2010) we presented a simulation of the future evolution of the aggregate outflow rate that accounted for outflow rates out of unemployment that vary substantially by duration. That simulation did not account for the inflows at high durations that have become increasingly prominent since we wrote our original paper.\(^7\) Because these inflows raise measured unemployment durations, ignoring them makes it very difficult to match the right tail of the unemployment duration distribution. Although the emphasis in the simulation in Elsby, Hobijn, and Şahin (2010) was not on the duration distribution, it substantially underpredicts the number unemployed at durations of 6 months or longer in the data.

In order to simulate accurately the dynamics of the measured duration structure of unemployment, then, one needs to take into account both inflows and outflows into unemployment at all durations. Figure 4 has already summarized the duration structure of inflows into unemployment. Figure 5 plots analogous estimates of outflow rates from unemployment by duration and destination based on CPS microdata for the recent 12-month period of July 2010 through June 2011.

Despite the recent severity of long-term unemployment, job-finding rates among the long-term unemployed (defined as durations exceeding six months) remain sufficiently high that most will find work within a medium-term timeframe. The figure shows that each month an average of nearly 11 percent of the long-term unemployed find a job. While this job-finding rate is at a historical low in the U.S., it is nonetheless slightly higher than the outflow rate of the French unemployed, averaged across the complete duration distribution as well as expansions and recessions (Hobijn and Şahin, 2009). At this rate, about half of the long-term unemployed in the U.S. will find a job within six months, and three-fourths will find a job within one year.

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\(^7\) Other recent analyses that examine the duration distribution of unemployment and duration dependence in exit rates also do not account for the duration structure for inflows (e.g., Hornstein, 2011, and Rothstein, 2011).
Recent anecdotal evidence suggests that it is very difficult for the long-term unemployed to find a job.\(^8\) However, Figure 5 reveals that though job-finding rates for the long-term unemployed are much lower than for the short-term unemployed, they change little as duration lengthens beyond six months. The job-finding rate for the very long-term unemployed, with durations of 18 months and higher, is not much lower than for those with durations of 6 to 18 months.

The dynamics of the unemployment duration distribution are determined by the net outflow rates from unemployment at different duration bins (outflows, Figure 5, minus inflows, Figure 4). For example, the net outflow rate at durations of 1-3 months during a quarter is given by the share of those unemployed for 1 to 3 months who have not exited unemployment by the next quarter.\(^9\)

\[ f_{t}^{1-3m} = 1 - \left( \frac{u_{t+1}^{4-6m}}{u_{t}^{1-3m}} \right). \]  

The calculation of these net outflows is quite simple since it only involves counting unemployed individuals by duration bins and thus does not require the use of longitudinally-matched CPS data. This approach assumes that the reported durations are correct, which is appropriate for an exercise aimed at reproducing the duration distribution.\(^10\)

To consider how persistent the long-term unemployment problem in the U.S. might be, in Table 2 we use these flow rates to construct three simulated paths of the unemployment rate. All three paths start with the average duration structure of unemployment and unemployment rate observed in the most recent data for 2011Q2. The first path, “2010-2011,” is simulated under the assumption that the net outflow rates will remain at the levels that prevailed in the most recent four quarters of data. The second path, “Expansion,” is simulated under the assumption that net outflow rates return immediately to the levels that prevailed during the preceding expansion, covering 2004Q1-2007Q1.

Our main focus of interest is in the final path in Table 2, labeled “Counterfactual.” This performs a counterfactual experiment that provides some perspective on the possible effects of a recovery in labor demand for the short-term unemployed only. Specifically, it assumes that inflows

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8 Rampell (2011), for example, discusses the phenomenon of job ads that explicitly require candidates to be “currently employed” or “recently unemployed.” This anecdotal evidence provides support for theories of unemployment dynamics in which applicants are ranked based on unemployment durations (e.g., Blanchard and Diamond 1994).

9 For the rest of our analysis we use quarterly data because some of the monthly data turn out to be very noisy. The duration bins we consider are 1-3, 4-6, …, and 18+.

10 All net outflow rates, except that for durations of 16 to 18 months, are lower in the recent four quarters than before the recession. For some duration bins, net outflow rates are negative, indicating that inflows exceed outflows.
into unemployment, as well as the net outflow rates of the short-term unemployed (with duration less than 6 months) return to their expansion-period average. The demand for long-term unemployed is assumed not to recover—their net outflow rates remain at their “2010-2011” levels. This counterfactual simulation corresponds to a scenario in which the long-term unemployed are essentially stuck at their existing, depressed rates of exit from unemployment, consistent with the notion that their current status reflects structural unemployment that will not dissipate as aggregate labor demand recovers.

Table 2 reports the three paths for the unemployment rate and long-term unemployment rate obtained from these simulations. The “long-run” values correspond to the implied flow-steady-state outcomes; the unemployment rates listed for prior years converge quickly to the steady-state values. As can be seen from the table, the net outflow rates observed over the past four quarters imply a steady-state unemployment rate of 9.5 percent, slightly above that in 2011Q2. Since the “2010-2011” scenario suggests the labor market is approximately in its flow steady state, it implies that the long-term unemployment rate will barely budge going forward.

If instead the inflow and net outflow rates instantaneously return to their expansionary levels, then the unemployment rate will drop rapidly to below 6 percent in mid-2012, 5.1 percent at the end of 2015, and converge to 5.0 percent. Interestingly, the latter corresponds to a leading current estimate of the pre-recession natural rate (CBO, 2011). Under this scenario, the long-term unemployment rate will drop rapidly, and will approximately return to its pre-recession level of 1.2 percent as well.

It is the counterfactual exercise, however, that is most informative regarding the factors that are likely to shape the recovery of the labor market. Under this scenario, in which net outflow rates remain unchanged for the long-term unemployed, the unemployment rate falls steeply to 6.0 percent by the end of 2015, and ultimately converges to 5.9 percent. The latter coincides with the latest estimate of the natural rate reported in Daly, Hobijn, Şahin, and Valletta (2011). The relatively modest increase in the steady-state unemployment rate relative to its expansionary values emphasizes the critical role of improvement in outflow rates for the short-term unemployed for lowering the overall unemployment rate. Strikingly, even though the counterfactual scenario assumed no improvement in the demand for the long-term unemployed, their unemployment rate falls to 1.9 percent, less than half of its value implied by current unemployment flows.
This exercise highlights two important lessons for the recovery of the U.S. labor market. First, a very effective way to prevent a long-term unemployment problem is to improve the likelihood that individuals find a job before they become long-term unemployed. Second, even in the context of the very depressed labor market conditions of recent years, the long-term unemployed are nonetheless finding jobs at a sufficient rate that a stimulus to the prospects of the short-term unemployed will fuel a rapid and near-complete recovery in the labor market as a whole.\footnote{This insight regarding the overwhelming importance of exit rates for the short-term unemployed is not new. For example, Nickell (1997) emphasizes this point when he discusses the importance of active labor market policies to aid the unemployed in European countries that did not suffer much from Eurosclerosis. Of course, active labor market policies are only one particular policy option to improve labor market outcomes of the short-term unemployed. Other types of stimulus might have a similar effect.}

4. Conclusion

Since our original paper, Elsby, Hobijn, and Şahin (2010), many other studies have confirmed that there is little evidence that increases in labor market frictions due to mismatch or the effects of the temporary extensions of unemployment compensation can account for a large part of the continued elevated level of unemployment. Instead, downward data revisions on economic activity released since our original analysis suggest that the labor market weakness is more in line with overall economic slack than we initially thought.

Because of this continued weakness a record number of people now report to have been looking for a job for 6 months or longer. Recently measured unemployment durations have been propped up to an unusual degree by inflows to unemployment at reported durations exceeding one month. These inflows are typically ignored in the existing literature on unemployment duration dynamics but are essential to understanding the current environment. In addition, we found that during the last year, over 10 percent of the long-term unemployed have found jobs each month, but this pace has not been rapid enough to reduce reported durations in the presence of the high-duration inflows.

We used this information on the inflow and outflow rates at different durations to simulate the path of the unemployment rate under alternative scenarios for net outflow rates. We found that even if exit rates for the long-term unemployed do not rise above their recent depressed values, an increase in exit rates for the short-term unemployed to their pre-recession levels will substantially reduce the long-term unemployment rate. Hence, we interpret the current flow dynamics of the U.S. labor market as indicating a low risk that the U.S. labor market will suffer from a bout of
persistently elevated long-term unemployment (“Amerisclerosis”), even after the most severe recession in postwar U.S. history.

References


**Figure 1.** Unemployment rate by duration

Percent of labor force  
Seasonally adjusted monthly observations


**Figure 2.** Cyclical movements in Shimer's outflow hazard and unemployment-employment transition probability.

Log deviation from mean

Source: Shimer (2007), based on Ritter data provided by Hoyt Bleakley, Bureau of Labor Statistics, authors' calculations
Figure 3. Transition probabilities out of unemployment by destination.

![Transition probabilities graph](image)

Source: Shimer (2007), based on Ritter data provided by Hoyt Bleakley, Bureau of Labor Statistics, authors' calculations

Seasonally adjusted; 3-month moving average

Figure 4. Duration structure of inflows into unemployment

![Duration structure graph](image)

Source: Bureau of Labor Statistics, Current Population Survey and authors' calculations

Seasonally adjusted monthly observations
**Figure 5.** Transition probabilities out of unemployment by duration and destination

**Table 1.** Change in unemployment rates by group

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*Note: Changes reported in percentage points. “Recession” refers to 2007Q2 through 2009Q4. “Recovery” sample is 2009Q4 through 2011Q2.*
Table 2. Unemployment rate and long-term unemployment rate under three scenarios

<table>
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