Federal Reserve Bank *of* Atlanta

MACROBLOG

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Economic troughs, changes in the unemployment rate, and fed policy

Recent data on the U.S. economy have been mixed. But today's weak labor market report (discussed more here, here, and here) provides a reminder that thinking of the economy as being in anything other than a technical recovery at this time is likely an exaggeration. The report showed the unemployment rate inching higher to 9.8 percent—and it would have been even higher absent a measured decline in labor market participation. Those active in the labor market declined by an estimated 571,000 in August. Discouragement about job prospects is a likely explanation for at least part of this decline.

In the face of such a weak labor market, it is interesting to consider the relationship between the timing of a recession's end and the peak in the unemployment rate. The following table shows the National Bureau of Economic Research's recession dates, lining those dates up with the month when the unemployment rate peaks. (Note that I exclude the 1980 recession since the unemployment rate did not peak before the 1982 recession.)

Historical lag between end of recession, unemployment rate peak, and beginning of funds rate tightening cycle

				Months from
			Months	unempl.
		Beginning	from end	peak to
		of funds	of	beginning of
		rate	recession	funds rate
End of	Unempl.	tightening	to unempl.	tightening
Recession	rate peak	cycle	peak	cycle
Nov 2001	Jun 2003	Jul 2004	19	13
Mar 1991	Jun 1992	Feb 1994	15	20
Nov 1982	Dec 1982	Jun 1983	1	6
(Jul 1980)				
Mar 1975	May 1975	May 1976	2	12
Nov 1970	Aug 1971*	Mar 1972	9	7

*Following the 1970 recession, the unemployment rate was 6.1 in December 1970 and again in August 1971. If the December 1970 peak is used, months from end of recession to unemployment peak is 1 and months from unemployment peak to beginning of funds rate tightening cycle is 15.

Source: Bureau of Labor Statistics, National Bureau of Economic Research, and Federal Reserve Board

From the table, it is clear that there is considerable variation in how long it takes for the unemployment rate to move lower after the economy enters recovery mode. The typical explanation for the lag is that, as the economy shows signs of improvement, more people enter the labor force. These additional people raise the denominator in the unemployment rate calculation that often more than offset actual declines in unemployment (more on the labor force from Calculated Risk).

The past two recessions stand out as cases where the months from the end of the recession before the unemployment rate peak were very long—more than a year.

Of related interest is the historical relationship between the peak in unemployment and the beginning of a policy tightening. (<u>Tim Duy</u> <u>discusses</u> prospects for Fed policy and contrasts some recent economic data with recent Fed commentary.) Of course, the Fed does

not base policy solely on movements in the unemployment rate, and the always useful advice to not casually extrapolate future decisions based on the past is even more important given the unusual circumstances of this recession. Nonetheless, historically, the beginning of a tightening cycle has lagged behind the peak in the unemployment rate by many months. This pattern is true for expansions when the FOMC was felt to have done a poor job in managing inflation, such as the post-1975 period, and it is equally true for periods when the Fed is believed to have done a very good job of managing inflation, such as the post-1991 episode.

Let me be clear that I am not offering a forecast but instead a reminder that the dynamics of unemployment do not always follow the dynamics of recessions. And for what it's worth, Federal Reserve policy has not historically responded immediately to declines in the unemployment rate—for both better and worse.

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