Recent data shows that the recession will have led to a 10 per cent permanent loss of UK output in a few years time. Simon Wren-Lewis investigates this puzzle and discusses some of the potential explanations; including, the possibility that hysteresis effects [i.e. the possibility that high unemployment increases the rate of unemployment below which inflation begins to accelerate] may have operated more quickly than anyone thought, the survey data is simply wrong, and that underlying labour productivity has fallen.

The graph below looks like recent developments in actual output relative to potential. But it is not. It is various assessments of UK potential output against the pre-recession trend.

It comes from the post-budget forecast produced by the Office for Budget Responsibility (OBR), the independent body that the UK government has contracted out the job of producing the official budget forecast to. It shows that the OBR, and other international forecasters, think that the recession will in a few years time have led to a permanent loss of UK output of over 10 per cent. That is an extraordinarily large number. It makes the recent US debate on the subject look positively tame by comparison.

The OBR estimates mainly come from survey evidence. The following chart is from a recent OBR working paper which describes their methodology.
We can see the problem by comparing 1981 with 2009. Between 1979 and 1981 UK GDP fell by about 3.5 per cent, whereas between 2007 and 2009 it fell by 5.5 per cent. Yet movements in the output gap look quite similar. More significantly, from 2009 to 2011 UK GDP grew at an average annual rate of just less than 1.5 per cent, yet this survey evidence suggests the output gap was almost halved as a result!

The OBR estimate that the current output gap is about 2.5 per cent. Of this about 0.5 per cent represents below trend levels of output per worker, with about 2 per cent reflecting the gap between actual and potential employment. Unemployment is now around 8.5 per cent, compared to about 5 per cent before the recession.

Other institutions use a production function approach to estimating productive capacity. The extent to which this is an alternative methodology depends in large part on how underlying total factor productivity (TFP) is estimated. (We can estimate the potential labour force from employment and unemployment, and the capital stock from investment data, but there is no data on changes in how efficiently those factors could be used.) If TFP is imputed from survey evidence on the output gap, we are going to get similar results.

So if these numbers are correct, how can they be explained? The major explanation has to come from a slowdown in underlying productivity. Actual labour productivity has indeed fallen in most sectors: the chart below comes from the Bank of England’s Feb 2012 Inflation Report.
Now falls in labour productivity are what might be expected in a demand led recession, because it takes time for firms to adjust employment. However, after a while one of two things should happen. The first possibility is that employment adjustment does occur as firms reconcile themselves to lower output, so productivity should rebound. It has not, particularly in services. The second is that firms are hoarding labour because they think output will recover to something like pre-recession trends. But in that case they should be reporting substantial spare capacity, which we have seen they are not. This behaviour in productivity appears to be the main difference between the UK and US estimates of potential output.

It is still possible that the survey data is just wrong. This is a view taken by Bill Martin (see both his FT article and the more detailed analysis behind it). However the survey evidence does receive some support from inflation. Although I noted that wage inflation had been very subdued following the recession, and that the recent peak in consumer price inflation was largely caused by commodity prices and tax changes, it remains the case that movements in domestic profit margins appear to be reasonably consistent with the survey evidence on the output gap. Firms are not cutting prices in an effort to utilise substantial spare capacity. However this is fairly weak evidence: there may be other reasons why firms are not cutting prices.

If the survey evidence is correct, then we have a major supply side puzzle. Is it the case that innovation has really come to a halt following the recession, perhaps because of financial constraints? Or are there more subtle supply side factors at work? (Subtle is code here for ideas that maybe interesting, or maybe silly.) A further possibility is that hysteresis effects [i.e. the possibility that high unemployment due to the recession has increased the rate of unemployment below which inflation begins to accelerate] may have operated more quickly than anyone thought, which really would be an indictment of austerity. A crucial question either way, posed by Mark Thoma, is whether these changes are temporary or permanent.

In the UK, this is not just an academic puzzle. With inflation still above target, the size of the perceived output gap remains important for (unconventional) monetary policy. Furthermore, and unlike the US, the government’s main fiscal target relates to the cyclically adjusted budget deficit. As I noted here, downward revisions made to potential output by the OBR in November led to a tightening of the government’s austerity plans. This was admittedly put off for a few years, but expectations matter. It is important to get this right, because with hysteresis effects (see DeLong and Summers) there is a danger that pessimism about productive capacity and productivity, even if
it is misplaced, may become self-fulfilling.

This post first appeared on Simon Wren-Lewis’s blog *Mainly Macro*.

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Simon Wren-Lewis is a professor at Oxford University and a Fellow of Merton College. His current research focuses on the analysis of monetary and fiscal policy in small calibrated macromodels, and on equilibrium exchange rates.

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