Official unemployment

Australia’s official unemployment rate is now 5.2%, one of the lowest official rates since 1980. This official person-based measure of unemployment fails, however, to capture the splintering of full-time, permanent jobs into part-time and casual positions that has occurred since then. Jobs involving one hour of paid work per week are counted in the official measure as a job, and anyone so employed is counted as employed. However, many people working in these fragments of jobs want more hours of employment, and for many the need is desperate. In fact such a person is partly employed (the hours they work) and partly unemployed (the hours they want to work).

The CLMI developed by CofFEE are designed to incorporate these important realities and to provide broader measures of labour underutilisation. These more fully represent the degree to which willing labour resources are being wasted. A description of all the concepts used in the CLMI appears at the end of this note.

Underutilisation by gender

At February 2006, the female unemployment rate was 5.3% and the male unemployment rate was 5.2%. While these rates are relatively close now, this has not always been the case. For example, during the 1980s female unemployment rates were on average 1.3 percentage points higher than male unemployment rates. Throughout the 1990s however, male unemployment rates were consistently above female unemployment rates (average over the period of 0.8 percentage points higher).

Measures of underutilisation have generally risen since the last quarter and rates on all measures, particularly those measured in hours, remain consistently higher for females. For example, the gap between U3 and CU7 is consistently higher for females which shows that it is females who are most constrained by the lack of hours available. For both males and females, the gap between U3 and CU7 has risen since 1980, which indicates that a proportion of jobs created over that period have been part-time but with less than desired hours on offer. The broadest underutilisation measure (CU8) is consistently and significantly higher for females, largely due to the higher underemployment experienced by them. This is also reflected in the measure UE where the rate for females is more than double that of males.

Table 1 Official unemployment rate (U3) and CLMI hours-based indicators, by gender (%)

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Males</th>
<th></th>
<th>Females</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U3</td>
<td>CU4</td>
<td>UE</td>
<td>CU7</td>
</tr>
<tr>
<td>Feb-2004</td>
<td>5.58</td>
<td>7.47</td>
<td>2.05</td>
<td>7.64</td>
</tr>
<tr>
<td>May-2004</td>
<td>5.49</td>
<td>7.33</td>
<td>2.05</td>
<td>7.56</td>
</tr>
<tr>
<td>Aug-2004</td>
<td>5.51</td>
<td>7.34</td>
<td>2.12</td>
<td>7.63</td>
</tr>
<tr>
<td>Nov-2004</td>
<td>5.28</td>
<td>7.01</td>
<td>2.07</td>
<td>7.35</td>
</tr>
<tr>
<td>Feb-2005</td>
<td>4.98</td>
<td>6.58</td>
<td>2.12</td>
<td>7.09</td>
</tr>
<tr>
<td>May-2005</td>
<td>4.91</td>
<td>6.46</td>
<td>2.12</td>
<td>7.03</td>
</tr>
<tr>
<td>Aug-2005</td>
<td>4.76</td>
<td>6.21</td>
<td>2.00</td>
<td>6.76</td>
</tr>
<tr>
<td>Nov-2005</td>
<td>5.08</td>
<td>6.70</td>
<td>1.97</td>
<td>7.05</td>
</tr>
<tr>
<td>Feb-2006</td>
<td>5.23</td>
<td>6.93</td>
<td>1.87</td>
<td>7.10</td>
</tr>
</tbody>
</table>

Females have higher rates of underutilisation than males on all indicators, especially those measured in hours.

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The following graphs compare male and female underutilisation since February 1978. For consistency, a standard left hand scale has been used. For both males and females, there were major upwards shifts associated with the 1991 recession. These step increases, particularly in underemployment measured in CU7 and CU8 have not been reversed over the long period of growth in the 1990s.

Figure 1 Underutilisation measures by gender (%)

Source: ABS Labour Force data and CoFEE estimates
Background - labour underutilisation concepts

Official measures: The labour force is the most commonly used measure of available labour resources in the economy. It counts all those over 15 who are either employed or unemployed. A person is defined as employed if they have at least one hours work per week. A person is defined as unemployed if they do not have work, but they are available for work and they are actively seeking work. The unemployment rate measures the number of persons unemployed as a percentage of the economically active population (the civilian labour force). The inference from the measure is that the economy is wasting resources and sacrificing income by not providing enough opportunities for work and underutilising labour.

Underutilisation refers to all persons who are currently not working but who are willing and able to undertake work. Some of them may be classified as ‘in the labour force’, like the unemployed. Others may not be ‘in the labour force’ but nevertheless have an attachment to it. These persons are referred to as marginally attached workers of which the hidden unemployment is a subset.

The hidden unemployed or discouraged workers want to work and are available to start work in the reference week but are not actively looking for work. A major reason for their lack of search activity is that they believe that search is futile given the poor state of the labour market. They are discouraged from actively looking for work, and thus participating in the labour force, because of labour-market related constraints. The discouraged worker is thus more like the unemployed (in the labour force) worker than they are, for example, like a retired person or a child in full-time education, who are clearly not in the labour force. It is therefore appropriate to take into account their labour market attachment by including them in measures of underutilised labour.

Underemployment refers to employed workers who are constrained by the demand side of the labour market to work fewer hours than they desire. It can also reflect underutilisation of skills due to lack of opportunities. In terms of time-related underemployment, a part of an underemployed worker is employed and a part is unemployed, even though they are wholly classified among the employed. Given this, it is appropriate to also include this unsatisfied willingness-to-work in measures of unused labour resources.

Typically, if these groups are taken into account, it is based on the numbers of persons involved. A truer measure of underutilisation is gained by taking into account how many hours each of the unemployed and marginally attached workers would like to work. Similarly, underemployment can be measured by considering how many more hours each of the currently underemployed would like to work. CoFEE has developed hours-based indicators which address these issues.

CoFEE’s hours-based indicators

U3 Total unemployed, as a percent of the civilian labour force (official unemployment rate)
CU4 Total unemployed, plus discouraged workers, as a percent of the civilian labour force plus discouraged workers. CU4 adds to U3 an estimate of working hours lost due to hidden unemployment.
CU7 Hours-adjusted unemployment rate which includes the unemployed based on the number of hours they wish to work as well as an estimate of the impact of underemployment of part-time workers, who want to work more hours than they are currently working. CU7 is U3 unemployment measured in hours plus an estimate of working hours lost due to underemployment of those working. It is the ratio of unutilised hours of work available to the total available (fully-utilised) labour force in hours.
UE A derivative measure of underemployment derived from the components of CU7.
CU8 Hours-adjusted unemployment rate with hidden unemployment (discouraged workers), which is equal to CU7 plus an estimate, in hours, of the unused resources currently not counted in the labour force but still willing to work – the so-called hidden unemployed. These discouraged worker estimates are explained in Mitchell (2001). CU8 extends CU7 by including the hours-aspirations of the hidden unemployed.

CU7 and CU8 distinguish between full-time and part-time employment, and take into account the fact that a substantial number of part-time workers (and in CU8 the hidden unemployed) are frustrated by their failure to gain fulltime work or more part-time hours. CU8, the hours-based measure augmented by estimates of hidden unemployment is the most comprehensive measure of underutilisation and underemployment.

All series are seasonally adjusted.

The labels used here reflect the fact that CoFEE computes a range of indicators; for consistency, we retain them here. For example, CoFEE has also computed measures CU7A and CU8A. These latter measures deviate from CU7 and CU8 from April 2001 because they exclude all part-time workers who preferred more hours of work but did not actively search for it or were unavailable. This is consistent with changes in data presentation by the Australian Bureau of Statistics. For the purposes of this report ONLY, the measures CU7A and CU8A as defined above are designated as CU7 and CU8. For the full range of indicators, see http://e1.newcastle.edu.au/coffee/indicators/indicators.cfm

References for further reading:

Next CLMI Publication: July 2006