

Box B: Recent Developments in Housing Prices

It is now around 1½ years since the sharp cooling in the boom in Australian house prices. This box outlines some new data that have been compiled to provide a better measure of median house prices. It then surveys price developments since the market peak, both nationwide and in the major capitals, and their impact on the broader economy.

New data on house prices

Analysis of short-term developments in Australian house prices in recent years has been hampered by two major problems.¹ The first has been *data timeliness*. From an economic standpoint, it is desirable for house price data to be based on the period in which the price was determined (i.e. at contract exchange) rather than when the transaction was subsequently settled. In the absence of a reporting requirement at the time of sale, it has been necessary to rely on data collected by state governments after settlement has occurred.² This is usually several months after the transaction was agreed to, with information becoming available only very gradually. Furthermore, it has become apparent that the early samples are often quite unrepresentative and could provide a biased estimate of price developments in the eventual full sample of sales.

The second problem is the more general one of *compositional change*. Most of the house price series used in Australia are based on city-wide median prices.³ However, measures of median (or mean) prices are dependent on the sample of transactions in the period in question. There is evidence of substantial shifts in sample composition in some cities, with some quarters having a high proportion of sales in higher-priced suburbs and other quarters having more sales in lower-priced suburbs. For example, in Sydney, nearly three-quarters of the variation in quarterly median prices can be attributed to compositional shifts between higher and lower-priced suburbs, rather than reflecting pure price changes.

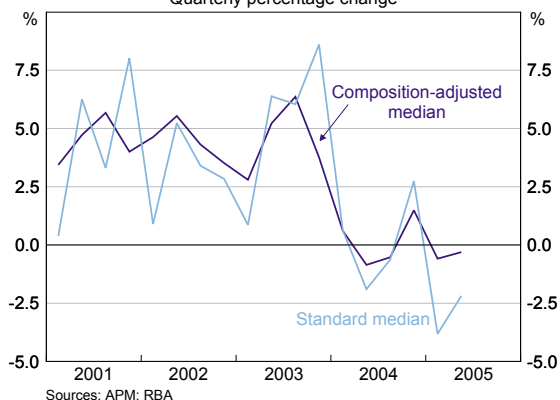
To overcome these problems, the Bank commissioned Australian Property Monitors (APM) to put together some new data on median house prices in major capitals stratified by market segment. To counter the problem of limited availability of data in the months immediately after the close of the most recent quarter, the data from state governments have been augmented with APM's own collection of data on auction and private treaty sales. This has the effect of significantly increasing the sample size for the most recent quarter: for the June quarter 2005, the sample size is more than doubled for Melbourne where the problem of slow reporting is most pronounced.

1 See the article on 'Measuring Housing Prices' in the RBA Bulletin, July 2004, for a more detailed discussion.

2 However, the ABS has indicated that its new house price measure, expected to be released later this year, will use data from bank loan applications and possibly some from state Real Estate Institutes for preliminary contract-dated price indices.

3 For example, the series from APM, CBA, and REIA. The exceptions are Residex, which uses repeat sales analysis, and the ABS which adjusts for compositional change by stratifying sales by geographic region.

Graph B1
Australian House Prices
 Quarterly percentage change



To address the more general problem of compositional change, sales in each quarter in each of the capital cities were sorted into ten different groups (five for Canberra) based on the longer-term median sales price for the suburb in which the property was located. Stratifying sales into groups in this way ensures that each group consists of a much more homogenous set of houses than the city-wide sample of all sales. Median prices in each of these individual groups can then be combined to provide an estimate of price developments in the

overall market that is far less affected by compositional change than a conventional city-wide median measure.

The combination of the use of data on additional sales, and the stratification of all sales into groups, results in a measure of median house prices for each city that is substantially less volatile than a conventional median and subject to much less seasonality (Graph B1). It is also considerably less subject to revision, even when initial estimates are made soon after the end of a quarter.

Recent developments in prices

The resulting new median price series confirm that there has been a marked cooling in nationwide house price growth over the past 18 months (Table B1 and Graph B2). In the 18 months prior to the December quarter of 2003, average nationwide prices rose by nearly 30 per cent, but they have been flat in the 18 months since then.

Table B1: Composition-adjusted House Prices
 Percentage change

	18 months to Dec qtr 2003	18 months to Jun qtr 2005
Sydney	25	-7
Melbourne	20	0
Brisbane	62	5
Adelaide	35	9
Perth	33	19
Canberra	41	0
Australia	29	0

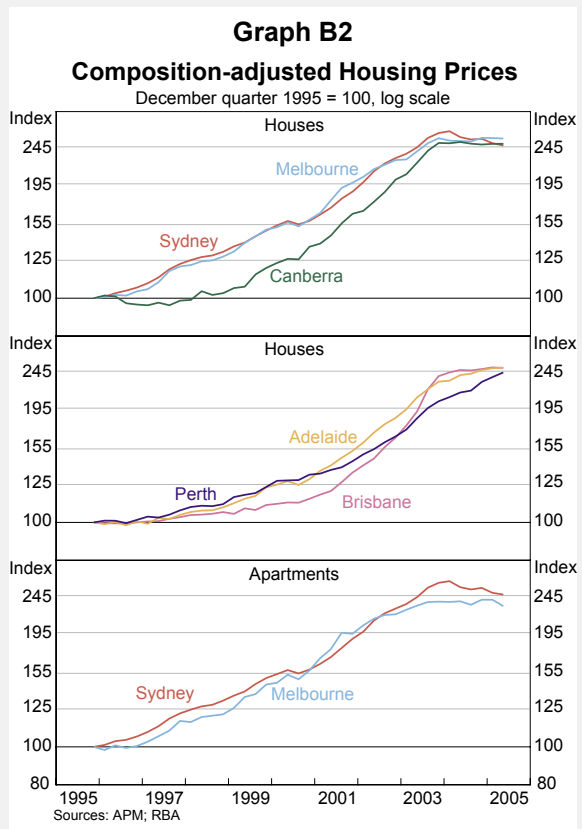
Sources: APM; RBA

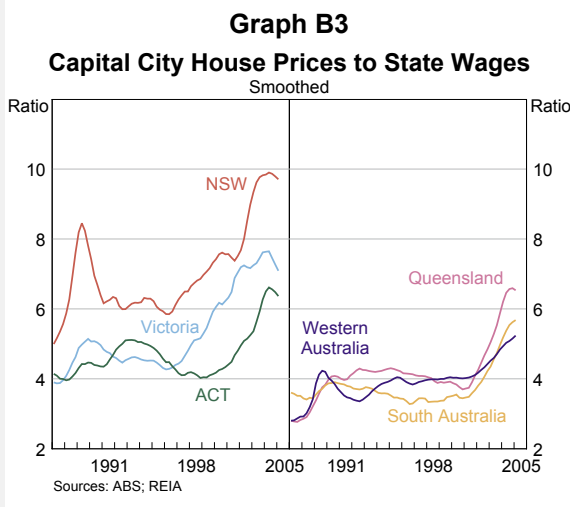
This pattern of rapidly rising prices followed by a noticeable slowdown in house price growth is evident, albeit to varying degrees, in each of the capitals. Indeed, it is also evident in every group of suburbs in every capital. Average city-wide prices have fallen or remained unchanged in Sydney, Melbourne and Canberra over the past 18 months. There has been only modest growth in Brisbane over this period, which is a very sharp slowdown from the prior period when prices rose by around 60 per cent. Growth in Adelaide and Perth has also slowed, but in contrast to the other capitals, prices continued to rise at a solid rate over the most recent 18 months, especially in Perth which has clearly benefited from the strength of the resources sector.

Composition-adjusted measures of apartment prices in Sydney and Melbourne, which together account for around 70 per cent of the total capital-city apartment stock, have followed a broadly similar pattern to house prices. Apartment prices rose solidly in the 18 months to the December quarter 2003, but have fallen over the past 18 months.

The divergent experience in house prices over the past 18 months appears to be partly related to the extent and timing of the prior build-up in prices. The boom started first in Sydney and Melbourne, with these capitals showing significant growth from 1996. Cumulative growth in house prices from late 1995 to late 2003 was strongest in these two capitals and in Canberra, with prices increasing by around 12 to 13 per cent per year on average in this period. These are also the three cities where house prices have been weakest since late 2003. By contrast, the boom in Perth started later and the cumulative price gain until late 2003 was noticeably less than in other capitals, with prices rising by 9 per cent per year on average over this period. So it may not be surprising that price growth has been strongest in Perth in the subsequent period.

Although it is difficult to reach conclusive judgements on the extent of possible overvaluations in house prices, two measures that are sometimes used to shed light on this issue are the ratios of house prices to labour incomes and to rents. In each case, these ratios suggest that housing valuations may have been most stretched in late 2003 in Sydney and Melbourne. For example,

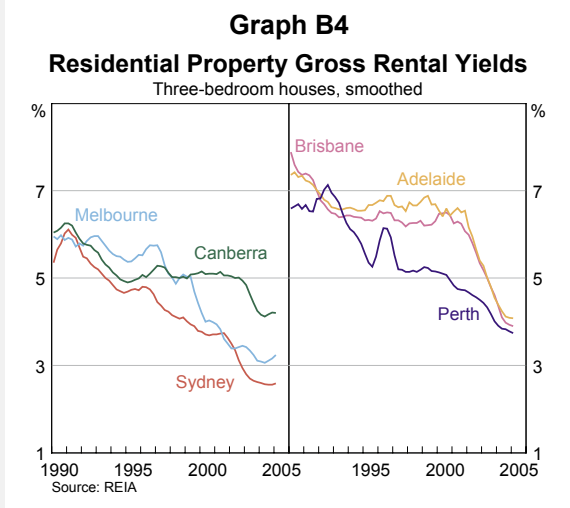




the ratio of capital city house prices to (state-wide) annual earnings had risen sharply in these two cities, to levels well above those in the other capitals (Graph B3).⁴ Similarly, gross rental yields had also fallen to particularly low levels in these cities (Graph B4). Hence the price weakness in the two largest cities over the past 18 months appears to partly reflect an unwinding of earlier unsustainable movements in prices.

The relationship between house prices and the broader economy

Given the importance of housing in the macroeconomy, it is not surprising that the sharp slowing in the growth of house prices has been associated with a slowing in the growth of domestic demand. The earlier long boom in house prices was accompanied by a sharp rise in residential building activity. However, this was reversed with the cooling of the price boom, with the number of nationwide private residential building approvals falling by 11 per cent between the December quarter 2003 and the June



quarter 2005, despite picking up in the first half of 2005. House price developments appear to have also had broader effects on spending by households. Whereas nationwide real retail sales had risen by nearly 10 per cent in the 18 months to the December quarter 2003, growth slowed to 4½ per cent over the period to June 2005. Although the state-level data for building approvals and retail trade data are fairly volatile, state developments do tend to be correlated with house price developments (Table B2). For example, activity in Western Australia has remained stronger than the nationwide average while activity in NSW and the ACT has been relatively weak, consistent with developments in house prices.

⁴ However, there is cross-country evidence that ratios of house prices to labour income tend to be higher in larger cities: see the article on 'City Sizes, House Prices and Wealth' in the RBA Bulletin, December 2001.

Table B2: Composition-adjusted Capital City House Prices and State Economic Activity

Percentage change over the 18 months to the June quarter 2005

	Composition-adjusted house prices ^(a)	Residential building approvals	Real retail sales
NSW	-7	-23	2
Victoria	0	1	7
Queensland	5	-10	4
South Australia	9	-20	2
Western Australia	19	-5	9
ACT	0	-41	2
Australia	0	-11	4

(a) Refers to movements in capital city house prices for each state.

Sources: ABS; APM; RBA

Of course, developments in house prices have not been the only cause of the different outcomes experienced by state economies over the recent period. Nor has the impact been completely from house prices to economic developments, as opposed to vice versa. However, the state-level data are consistent with developments in house prices having had major direct and indirect effects on the Australian economy and having contributed to the recent slowing in the growth of domestic demand. As the Bank has noted in other contexts, this slowing in demand is part of a consolidation of household balance sheets and was unavoidable given the sharp run-up in household borrowing that accompanied the rapid increase in house prices. The correction in the housing market appears so far to have proceeded reasonably smoothly, and the prospect of an excessive and unwelcome slowing in domestic demand has been reduced by the boost to national incomes coming from the favourable terms of trade. ❧