

NOTES FOR A PANEL DISCUSSION ON EARLY WARNING SYSTEMS FOR GLOBAL FINANCIAL CRISES

Luci Ellis Head of Financial Stability Department

Australian National Audit Office Canberra – 10 June 2011

NOTES FOR A PANEL DISCUSSION ON EARLY WARNING SYSTEMS FOR FINANCIAL CRISES

1

The US experience has led many observers to put more emphasis on the risks posed by households and housing markets. And understandably so: housing prices are one-third below their peak, and even more in some cities; millions of people have lost their home to foreclosure; at least 12 per cent of outstanding mortgages were three or more months behind on their payments or in foreclosure proceedings in the first quarter of this year.

In Australia, households have become more indebted over recent decades, and housing prices are high. So we need to be alert to the possibility that many households might become overstretched. Arrears rates on home loans have drifted up as interest rates have risen. But they remain fairly low overall, even compared to the *pre*-crisis experience in some other countries. The cohort that borrowed in 2004–2007 is performing a lot worse than those who took out loans before or since then. Many of the borrowers in that period were investors, and thus more prone to speculative motives than owner-occupiers. Perhaps more importantly, lending standards eased during that period; they have since tightened again, especially around income

documentation. There was a surge of first-home buyers in 2008–09 in response to government incentives. These households usually have less equity in their home, so we continue to watch them closely for emerging signs of stress. But so far, they are behaving like earlier cohorts of first-home buyers. It was the buyers in the earlier boom that now seem most vulnerable.

In any case, we need to keep those potential vulnerabilities in perspective. It is very rare that households are the instigators of financial instability. We need to be mindful of the role institutional differences play. The meltdown in the US housing market was an exception to the normal dynamic for mortgage defaults. Arrears rates and defaults started to rise rapidly there *before* the economy turned down. Everywhere else, before and since, unemployment rises in tandem with large upswings in arrears. The difference seems to be the many institutional settings that are unique to the United States. These include: a segmented mortgage lending industry with a large subprime sector; the rapid non-judicial foreclosure processes; weak or incomplete financial regulation; and a household sector that is exceptionally exposed to income and other shocks. We should bear in mind the true relative risk posed by different parts of the non-financial economy. We would be doing our fellow citizens a disservice if we allowed the housing market to become the Maginot Line of financial stability analysis.

As noted in the background paper, Barrell and his co-authors found that housing prices correlate well with periods of distress. But the loan losses, and thus the damage to financial stability, are typically in loans to property developers. That has certainly been the experience in Ireland, Spain and the UK recently.

Developments in Australian Households' Borrowing Capacity: An Update

Households' potential borrowing capacity is little changed since December 2010.1

According to our survey of lenders' online loan calculators, is the only major bank that has reduced maximum borrowing capacity; the other major banks have left their calculators unchanged since December 2010.

recently increased its interest rate buffer, resulting in a significant reduction in borrowing capacity across all income levels.⁴ For example, the maximum loan size for an individual with a gross income of \$100,000 has declined by 13 per cent.

Sophie Stone Institutional Markets Section Domestic Markets Department 10 June 2011

¹ For developments between March 2009 and December 2010, see Deans, C (2011), '<u>Developments in Australian Households' Borrowing Capacity'</u>, DM internal note.

⁴ The increase in the interest rate buffer was confirmed by our mystery shopping. This interest rate buffer can be used by the banks as a broader serviceability buffer and therefore may also take into account potential increases in the cost of living.

CHANGES IN THE PROVISION OF LOW-DOC LOANS

Standards of low-doc lending tightened considerably following the onset of the financial crisis. This owes partly to a reduction in the level of competition in the market as a number of smaller and more aggressive lenders exited the market. Furthermore, there was a general reassessment of the risks involved with this type of product by both lenders and mortgage insurers. As a result, tighter regulations for low-doc lending, introduced in January 2011, appear to have had a limited effect on the industry. Nevertheless, these laws should act to curb the return of some of the riskier lending practices employed prior to the crisis.

Introduction

Low-doc housing loans are designed mainly for the self-employed and those with irregular incomes who do not have the required income documentation to obtain a conventional full-doc mortgage. Since their introduction in the late 1990s, low-doc loans have played an important role in broadening the provision of housing loans. There are greater risks for the lender, however, due to the generally lower quality of information regarding, and greater volatility in, the borrower's income. For example, before the onset of the crisis, some lenders had started to rely on low-doc borrowers self-certifying their income, rather than using more reliable information such as a business activity statement (BAS).

Changes in low-doc lending between 2007 and 2010

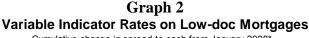
Standards of low-doc lending have tightened considerably over the past couple of years. Most obviously, there was a broad reassessment of the risks associated with low-doc lending in late 2008. Most of the major banks, and at least one regional bank, increased their documentation requirements, such as requiring an ABN and/or a BAS. also ceased offering low-doc loans with a loan-to-valuation ratio (LVR) of above 60 per cent, while tightened the conditions under which these loans were made available.

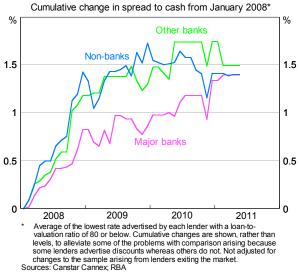
Following these changes, there was a marked fall in low-doc loans as a share of housing loan approvals (see below).

A number of smaller and arguably more aggressive lenders were also forced to exit the market as funding pressures intensified. According to Canstar Cannex, the number of lenders offering low-doc mortgage products declined from 38 in mid 2008 to 27 a year later (Graph 1). Meanwhile, the number of available products more than halved.

¹ Typical documentation required for a full-doc loan can include a letter of employment, a payslip and a tax return.

Graph 1 Low-doc Variable-rate Mortgages No No. Number of products 100 100 50 50 No No Number of lenders 30 30 15 15 O 2008 2009 2010 2011 Sources: Canstar Cannex; RBA





Funding pressures also indirectly led to an improvement in the average quality of low-doc loans. In particular, smaller lenders – which were generally viewed as less cautious in their lending practices – experienced a larger rise in their funding costs.⁵ This made it increasingly difficult for these lenders to offer competitive rates even if they were able to remain in the market (Graph 2). As a consequence, we estimate that the market share of the major banks in the low-doc market doubled from 2006 to 2008.

The incentives for borrowers to access these products also declined. In particular, the slowdown in the economy will have affected the self-employed to a greater extent than other borrowers. Furthermore, as expectations of house price growth declined, incentives to speculate on housing via potentially overstating income levels on low-doc loans arguably also fell. In combination, these factors contributed to a marked decline in the share of low-doc loan approvals from a peak of 12½ per cent in late 2008 to 6½ per cent by mid 2010.

3. Recent Developments and Outlook

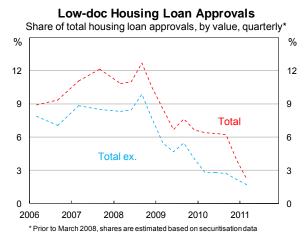
There has been a further reduction in the market share of low-doc loans in recent months. Some lenders attribute this to the recent introduction of the National Consumer Credit Protection (NCCP) legislation. These regulations have placed responsibility upon lenders and brokers – from July 2010 and January 2011 respectively – to make sure a loan is appropriate for the borrower. In particular, 'responsible lending' requirements mean that lenders have to take "reasonable steps to verify the consumer's financial situation".

Any effects on the availability of finance to the self-employed appear to have been relatively minor, with most of the recent decline in low-doc lending reflecting a procedural change in products offered by (Graph 3). had offered 'low doc loans' to borrowers with at least a 40 per cent deposit at no pricing differential to conventional mortgages. As such, many borrowers that were eligible for a full-doc loan had applied for a low-doc loan in order to reduce the administrative requirements of the application. With the introduction of the NCCP, now requires these individuals to apply for full-doc loan products.

_

⁵ For example, smaller lenders accounted for the vast majority of products available to borrowers with weaker credit histories.

Graph 3



Furthermore, there

has been little change in their lending standards. This follows guidance from ASIC that simply obtaining recent tax returns and/or BAS should be sufficient. Additionally, the smaller lenders have gained market share recently, suggesting that they also have not materially tightened non-price conditions (although their advertised rates have become more competitive recently). Finally, although liaison suggests that documentation requirements for broker-originated loans have been tightened recently, this was largely attributed to lenders' funding considerations.

Overall, the regulations appear to have struck a reasonable balance between allowing responsible low-doc lending to continue, while discouraging the return of high-risk lending. Nevertheless, lenders' funding considerations and some marginal effects from the NCCP mean that it is unlikely that low-doc lending will outpace the broader market over the next 12 months.

Cameron Deans
Institutional Markets Section
Domestic Markets Department
17 June 2011

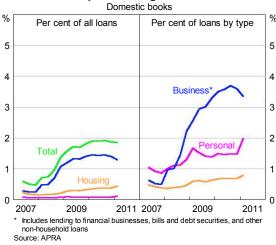
BANKS' NON-PERFORMING ASSETS – MARCH QUARTER 2011¹

Most banks reported an increase in their domestic housing NPA ratio over the quarter.

Domestic books assets

The industry NPA ratio fell for business lending over the quarter, but increased for housing and, in particular, personal lending (Graph 3, Table 1). Past-due assets account for most non-performing housing loans

Graph 3
Banks' Non-performing Domestic Assets



Graph 4
Banks' Domestic Asset Quality

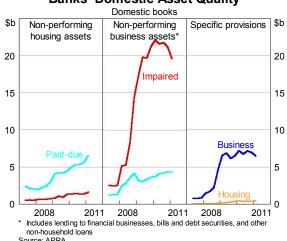


Table 1: Banks' Non-performing Domestic Assets

Domestic Books

	type	Share by loan type* (per cent)		Share of all loans* (per cent)		Amount (\$ billions)		Memo: loan type as share of all loans* (per cent)	
	Mar 11	Dec 10	Mar 11	Dec 10	Mar 11	Dec 10	Mar 11	Dec 10	
Housing	0.8	0.7	0.4	0.4	8.1	7.0	55	55	
Owner-occupier	0.8	0.7	0.3	0.3	5.7	4.8	38	38	
Investor	0.8	0.7	0.1	0.1	2.4	2.2	17	17	

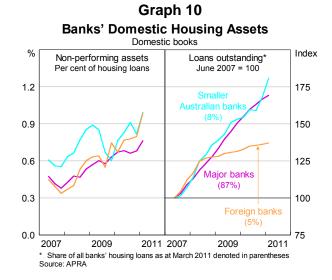
Sources: APRA; RBA

^{*} On-balance-sheet credit as at March 2011

Domestic housing assets

Most banks' housing assets performed worse over the March quarter, with about 80 per cent of banks reporting an increase in their domestic housing NPA ratio (Graph 9). All bank types experienced a rise in non-performing housing loans, despite increases in loans outstanding (Graph 10). The deterioration reflected both higher impairments and past-due loans, particularly at the foreign-owned banks. Banks have indicated that they expect asset performance to deteriorate further over the June quarter due to recent natural disasters and interest rate increases.

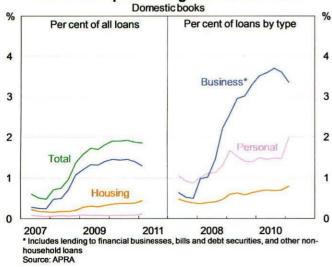
Graph 9 Banks' Non-performing Housing Asset Ratio Domestic books, number of banks reporting change over the quarter Increasing NPA ratio 10 10 0 Net difference 10 Decreasing NPA ratio 20 20 2007 2008 2009 2010 2011 Sources: APRA; RBA



BANKS' NON-PERFORMING ASSETS MARCH QUARTER 2011

Graph 3 Banks' Non-performing Domestic Assets

Domestic books



From: JOHNSON, Robert To: EDEY, Malcolm

Cc: PENDLE, Lara; ELLIS, Luci; THOMPSON, Chris; STIEHM, Susan

Subject: RE: Mortgage arrears [SEC=UNCLASSIFIED]

Date: Monday, 27 June 2011 16:18:58

A quick update now that we have a copy of the JPMorgan report. Its statements about the 2009 cohort are forward looking; the more negative take on their current performance appears to be that of the author of the AFR article.

The JPMorgan report states that the although the delinquency rate of the 2009 vintage remains below that of the 2008 and 2007 vintages, it is too early to assume that it will continue to perform better. JPMorgan's concerns about the 2009 cohort stem from its view that gearing tolerance was extended in that period, because of:

- increased approvals levels for First Home Owners;
- flat national house prices since 2009
- low interest rates during 2009 (they estimate that the interest rates on loans made during 2009 are now around the buffer levels used by the banks in their loan application assessments);
- increased average borrowing levels;
- higher levels of interest-only loans.

Given these factors, they estimate that a further 100 basis point increase in interest rates over the next 18 months would likely lead to 2009 (and 2008) loans performing more poorly than the peak arrears in loans originated in 2007. In aggregate, they estimate that the arrears rate could increase by a further 20 - 30 basis points (to a total arrears rate of 90 - 100 basis points).

The report also estimates the impact of seasoning as small (1-3) basis points for the major banks). It does not provide its methodology for these calculations. It uses this to argue that the recent rise in interest rates is more a reflection of the arrears rates drifting up for all cohorts than seasoning of the loans. This is broadly in line with our own work on seasoning of banks' mortgage loans, although as emphasised in my earlier email, as yet there is no evidence that loans for 2009 are performing poorly relative to other cohorts.

_	ı_	_		I
	n	а	n	K C

Rob

From: JOHNSON, Robert

Sent: Monday, 27 June 2011 14:58

To: EDEY, Malcolm

Cc: PENDLE, Lara; ELLIS, Luci; THOMPSON, Chris; STIEHM, Susan

Subject: Mortgage arrears [SEC=UNCLASSIFIED]

Malcolm

The main thrust of the mortgage arrears discussion in the 'Trouble on the Home Front' article in the AFR is based on a report by JPMorgan. We are trying to get hold of the JPMorgan report, but in the meantime here are our thoughts on the main messages from the press report.

On arrears, the press report makes the following statements, based on data from Genworth:

- 1. Loans written in 2008 are performing worse than in previous or subsequent years
- 2. Loans written in 2007 and 2009 are "only marginally better"
- 3. Loans that are 4-6 years also have seen a jump in arrears recently

This leads the author to conclude that the deterioration in mortgage arrears is broad based and based more on a deterioration in credit quality than because of natural seasoning of the loans.

Much of this analysis is consistent with our data. Both figures provided by

and figures from on securitised mortgages suggest that at
the aggregate level the 2008 cohort is the poorest performing given its level of seasoning (see
Graphs 1 and 2 in attached document). In fact, figures suggest it is the poorest
performing in absolute terms, consistent with the press article.

However, on point 2, we have no data that suggests that 2009 loans are only performing marginally better than those made in 2008. Both

and securitisation data

suggest that loans made in 2009 have performed considerably better than those issued in previous years.

The press article's statement that loans that are 4-6 years old have also seen an increase in arrears recently is also consistent with securitisation data. However, the conclusion that the arrears trend is broad based is based on the statement that 2009 loans are also performing poorly. As mentioned above, our data shows that 2009 loans, and 2010 loans, have performed much better than loans issued in early years. This suggests that the increase in arrears that is related to asset quality, rather seasoning, is largely confined to loans made prior to the tightening of lending standards in the second half of 2008.

We are contacting another to get an understanding of how their 2009 insured loans have performed relative to earlier years. Given that our other sources all point to higher credit quality in 2009, it is unlikely that data will support the press article on this point. Once we get hold of the original JPMorgan article we will have a better understanding of whether or not the press article has quoted JPMorgan's work out of context.

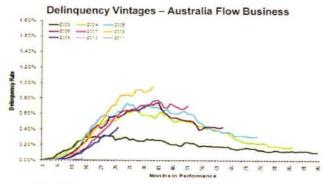
If we look at the securitisation data on a state level, the credit standards story is even more compelling. For Western Australia, loans made in 2006, 2007 and 2008 are the poorest performers (Graph 3). These were loans made towards the end of the period of strong house price growth in Western Australia (Graph 4). For New South Wales, loans made in 2003, 2004 and 2005 are worst performing; these were associated with a loosening in credit standards, particularly for loans based in Western Sydney (Graph 5). For Queensland, arrears are more broad-based, reflecting more volatile house prices and weaker macroeconomic conditions (Graph 6).

Thanks

Rob

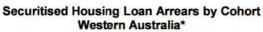
Rob Johnson | Senior Analyst | Financial Stability Department RESERVE BANK OF AUSTRALIA | 65 Martin Place, Sydney NSW 2000 p: +61 2 9551 8546 | f: +61 2 9551 8052 | w: www.rba.gov.au

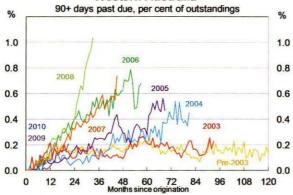
Graph 1



Source: Genworth

Graph 3

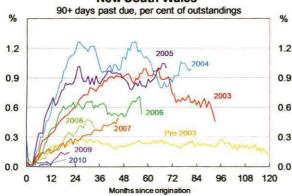




*Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual

Graph 5

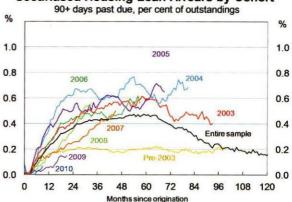
Securitised Housing Loan Arrears by Cohort New South Wales*



*Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual

Graph 2

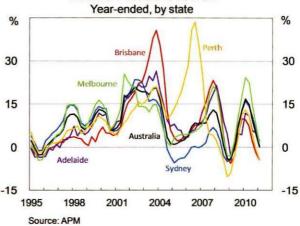
Securitised Housing Loan Arrears by Cohort*



* Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual

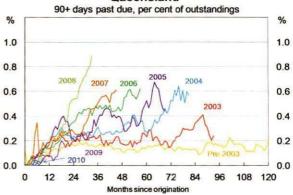
Graph 4

House Prices Growth



Graph 6

Securitised Housing Loan Arrears by Cohort Queensland*



* Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual

LOMAS, Phil

From: THOMPSON, Chris

Sent: Tuesday, 28 June 2011 15:27

To: ELLIS, Luci

Subject: FW: Non-peforming housing loans... [SEC=UNCLASSIFIED]

Attachments: NPHL.docx

FYI. Interesting comparison of bank and CUBS NPLs. Recent increase in NPLs is evident for CUBS as well, though the increase in the March quarter is not quite so sharp. It's interesting that for CUBS, a higher share of their non-performing housing loans are classified as impaired than past-due.

From: TELLEZ, Eduardo

Sent: Tuesday, 28 June 2011 12:19

To: THOMPSON, Chris **Cc:** GORAJEK, Adam

Subject: Non-peforming housing loans... [SEC=UNCLASSIFIED]

Chris

Please find attached a graph comparing non-performing housing loans for CUBS and banks. Some key points:

- Impaired assets for both types of institutions are very similar.
- Past-due loans for CUBS are significantly lower than for banks (even lower than impairments).

At this point, we are not sure why the CUBS's past-due loans are so low.

Regards

Ed

Ed Tellez | Analyst | Financial Stability Department RESERVE BANK OF AUSTRALIA | 65 Martin Place, Sydney NSW 2000 p: +61 2 9551 8516 | f: +61 2 9551 8052 | w: www.rba.gov.au

LOMAS, Phil

From: THOMPSON, Chris

Sent: Wednesday, 29 June 2011 18:37

To: ELLIS, Luci; DONOVAN, Bernadette; STIEHM, Susan **Subject:** FW: Business Spectator chart [SEC=UNCLASSIFIED]

Attachments: image001.png

Interesting graph. The data are actually CBA's loss rates during the early 1990s, not banks in general.

From: CHAMBERS, Mark

Sent: Wednesday, 29 June 2011 16:42

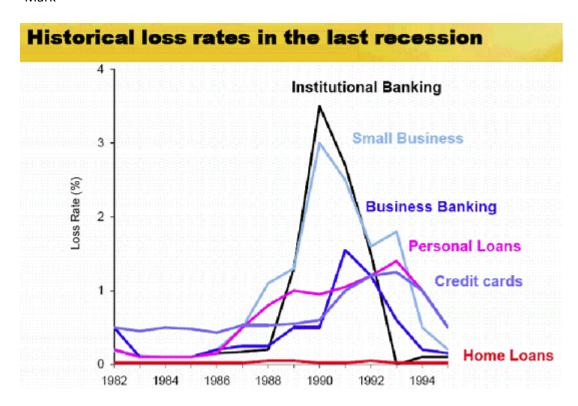
To: THOMPSON, Chris

Subject: Business Spectator chart [SEC=UNCLASSIFIED]

Chris,

I came across this chart in a Business Spectator article (by Chris Joye) a couple of days ago. Might be of interest.

-Mark

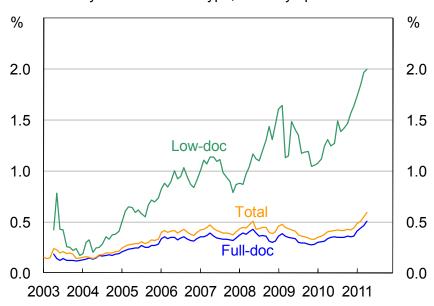


 $\frac{http://www.businessspectator.com.au/bs.nsf/Article/banks-property-housing-lending-APRA-RBA-credit-ris-pd20110628-J8UEX?OpenDocument\&src=is$

Although the arrears rate on low-doc loans is far higher than that of full-doc loans, low-doc loans are shrinking as a percentage of the pool (to around 6 per cent including self-securitisations) and are therefore not contributing a large amount to the total arrears rate.

Securitised Housing Loan Arrears*

By documentation type; 90+ days past due



^{*} Prime loans securitised by all lenders. Includes self-securitisations. Sources: Perpetual; RBA

Hard to know what to make of the cohorts graph for self-securitised loans only, as it is discontinuous for earlier cohort years and therefore hard to compare across years and to data excluding self-securitisations.

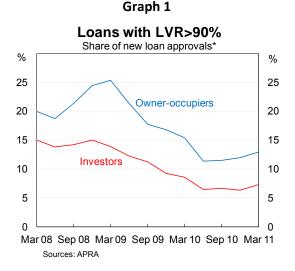
Securitised Housing Loan Arrears by Cohort*

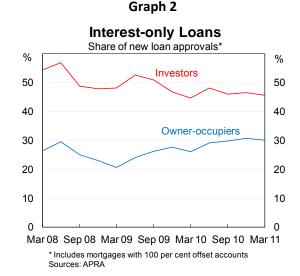
90+ days past due, per cent of outstandings % % 1.0 1.0 8.0 8.0 0.6 0.6 2005 2007 2009 0.4 0.4 2003 2010 Pre-2003 0.2 0.2 0.0 0.0 0 24 108 120 12 36 48 60 72 96 Months since origination

^{*} Full-doc and low-doc loans self-securitised by all lenders, excludes loans that have not been self-securitised Source: Perpetual

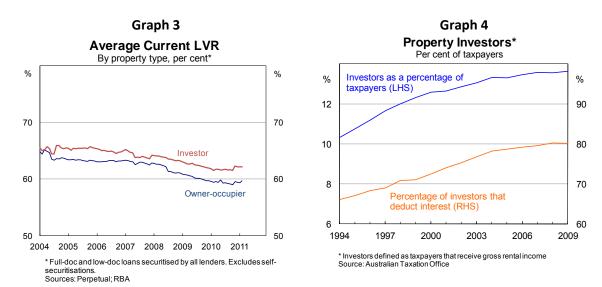
RESIDENTIAL PROPERTY INVESTORS

There are several attributes of investor mortgage lending that differentiate it from owner-occupier lending. These attributes potentially make lending to investors more procyclical and more prone to losses than lending to owner-occupiers. Despite this potential vulnerability, the performance of investor loans has not differed markedly than that of owner-occupiers in recent years. However, new investor borrowing does appear to be more pro-cyclical than that of owner-occupiers, potentially amplifying house price cycles and losses on loans backed by residential property during downturns periods of property price weakness.





A higher share of investor loans tend to be made on an interest-only basis (Graph 2). This in part reflects the tax benefits available to investors. Because of this, the average LVR of outstanding investor loans may be higher than that of owner-occupier loans, despite the former initially being more highly leveraged on average. Indeed, this is the case for securitised loans (Graph 3). Tax Office data shows that the proportion of investors using gearing has tended to increase over time (Graph 4) and that investor debt servicing burdens have tended to increase over time.



Investor loans have also tended to comprise a slightly higher share of loans with low-documentation than owner-occupier loans, possible because the lending decision hinges more around the ability of the investment to cover the mortgage repayments rather than the credit worthiness of the the borrower.

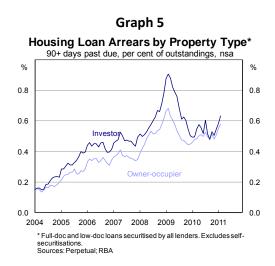
It is difficult to say which type of lending is more risky based solely on these loan characteristics. From a loss given default perspective, although owner-occupier loans are initially more leveraged, their risk diminishes more quickly than investor loans as the loan amortises. To get a better understanding of the probability of default, we need to take a closer look at the characteristics of the borrowers themselves.

How have investors performed over the global financial crisis compared to owner-occupiers?

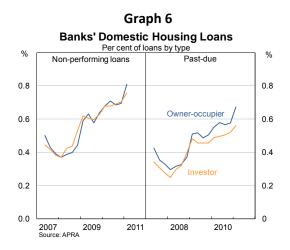
Aggregate

For securitised mortgages, the 90+ day arrears rate has consistently been higher for investor loans than for owner-occupiers loans, although the gap has narrowed since 2010 (Graph 5). Recent liaison with

suggested that for insured loans, the investor delinquency rate is roughly double that of owner-occupiers. In contrast, investor loans on banks' balance sheets have performed in line with owner-occupier loans (Graph 6). This is despite both sources having a similar compositional split between investor and owner-occupier loans. This suggests that the quality of securitised and insured investment loans is particularly poor, even compared to the quality of securitised and insured owner-occupier loans (which themselves are likely to be lower quality on average than on-balance sheet loans).



factored into mortgage servicing and interest rate increases.

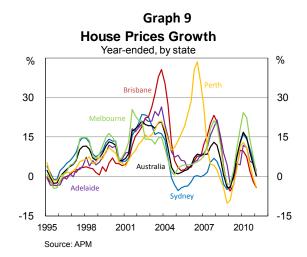


attributed some of the weakness in the investor loans to considerable speculation by investors in the housing market prior to 2005, with investors looking for rapid capital gains. thought that the more recent higher arrears rate for investor loans reflected a level of over commitment by investors. Contributing factors were house price declines, vacancy periods that were not

It is therefore not clear whether investor loans have performed more poorly than owner-occupier loans over recent years. But, even in the data sources that suggest that they have performed relatively worse, arrears rates have still remained low by international standards.

By state

State level data suggests that investor lending is more pro-cyclical than owner-occupier lending. For example, both Queensland and Western Australia saw a more rapid growth in investor than owner-occupier approvals during their periods of strong house price growth between 2002 and 2008 Approvals then dropped off significantly once property price growth in these states weakened. Similarly, in NSW investor approvals grew rapidly up to 2004, but levelled off after as property prices remained broadly flat. However, there is little evidence that investor loan arrears are more procyclical than owner-occupiers; securitised arrears rates by state show similar trends for both.

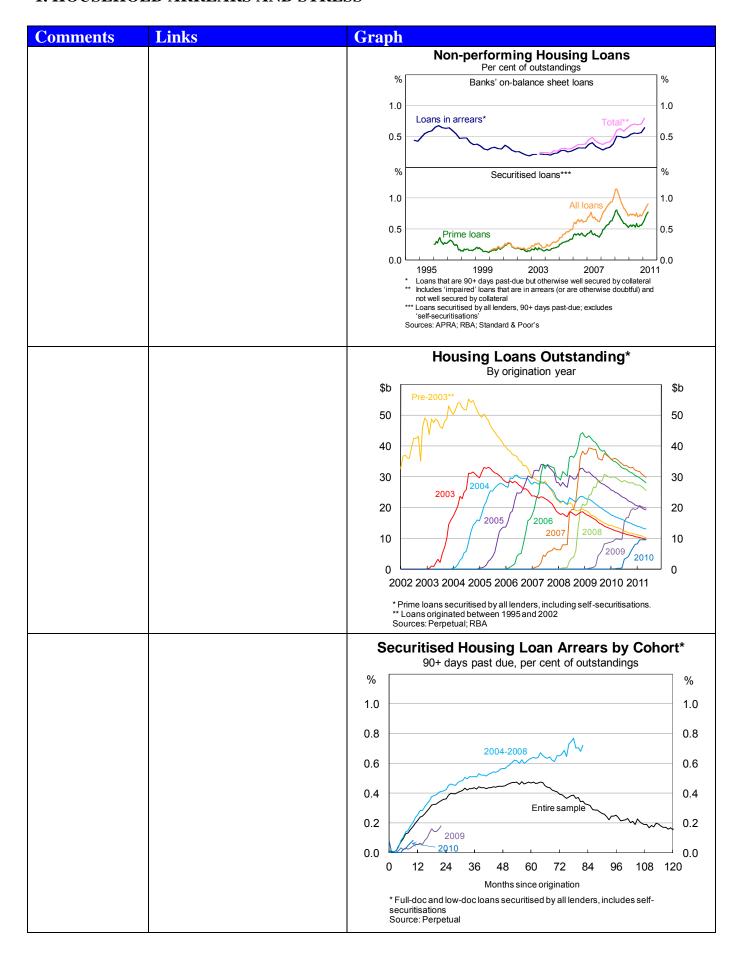


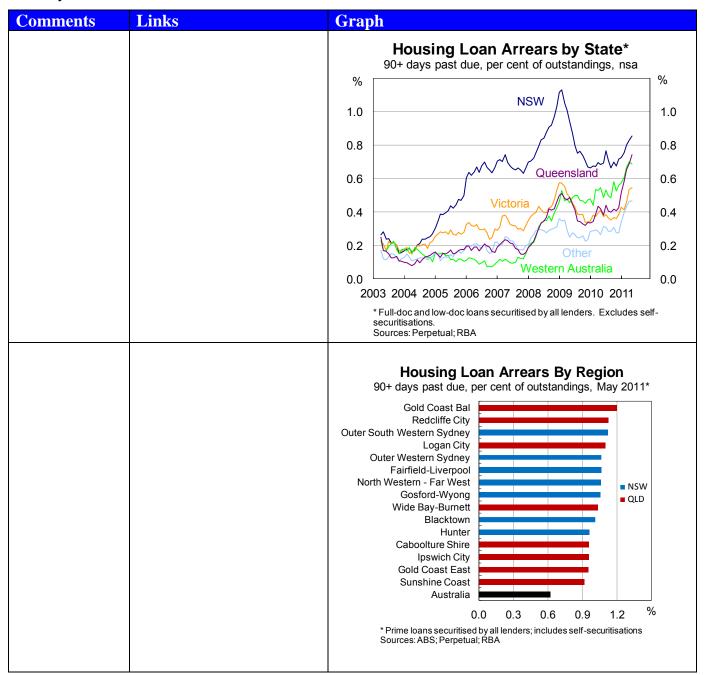
Conclusion

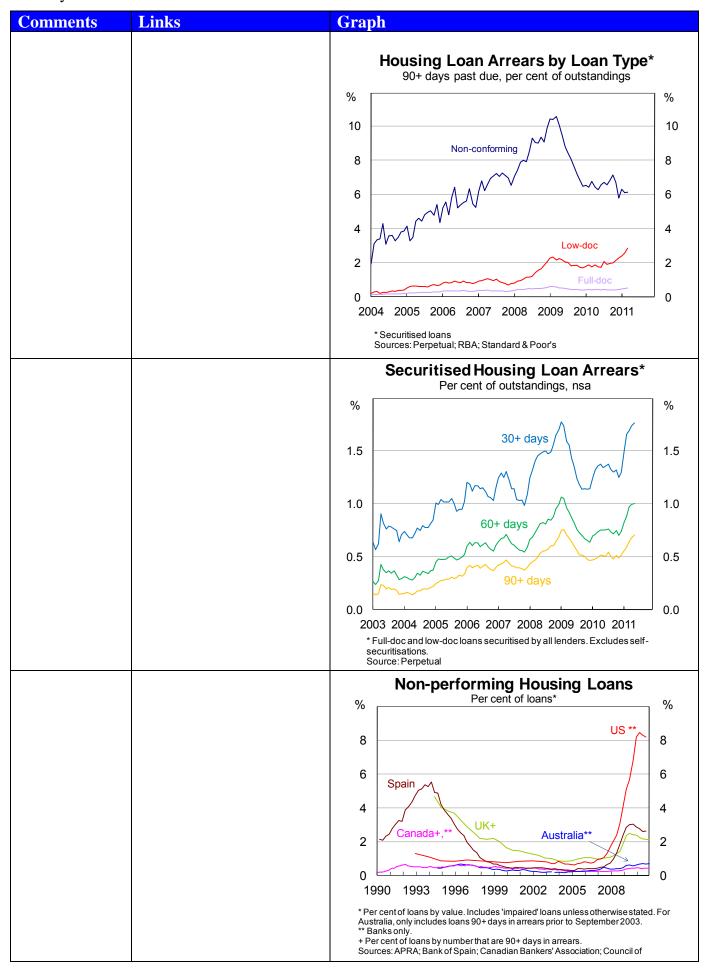
Although property investors have certain characteristics that suggest that they might be higher risk than owner-occupier loans, there is no strong evidence to suggest that their performance has differed markedly in recent years. However, new investor lending does seem to be more pro-cyclical than new owner-occupier lending. This could amplify cyclical house price movements and therefore the losses on loans backed by residential property, even in the absence of investor loans directly performing more poorly than owner-occupier loans.

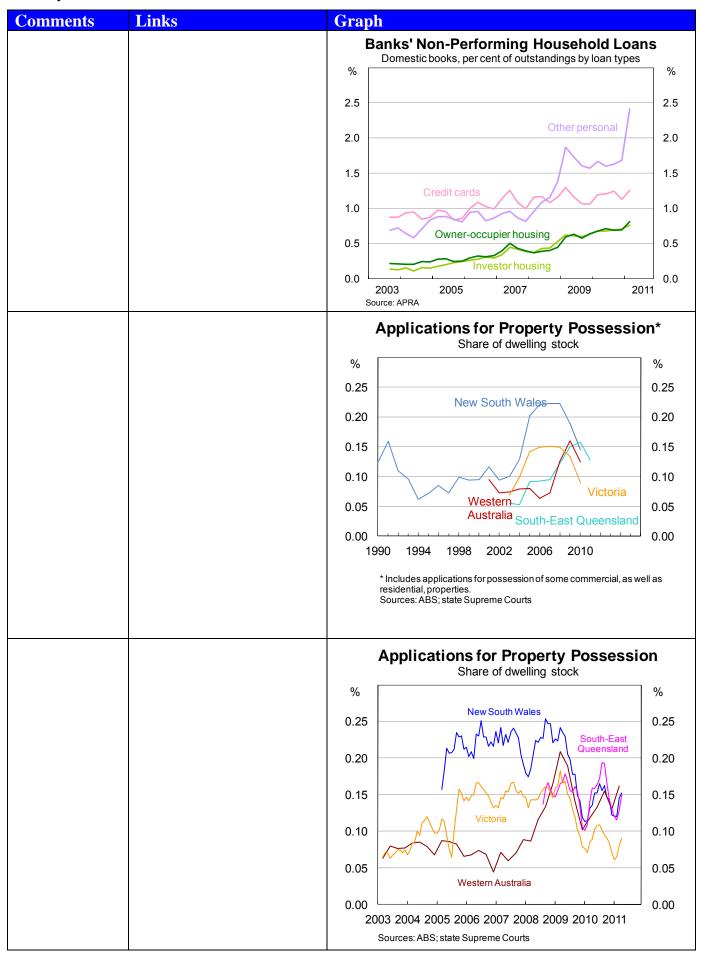
Rob Johnson Financial Stability 8 July 2011

1. HOUSEHOLD ARREARS AND STRESS

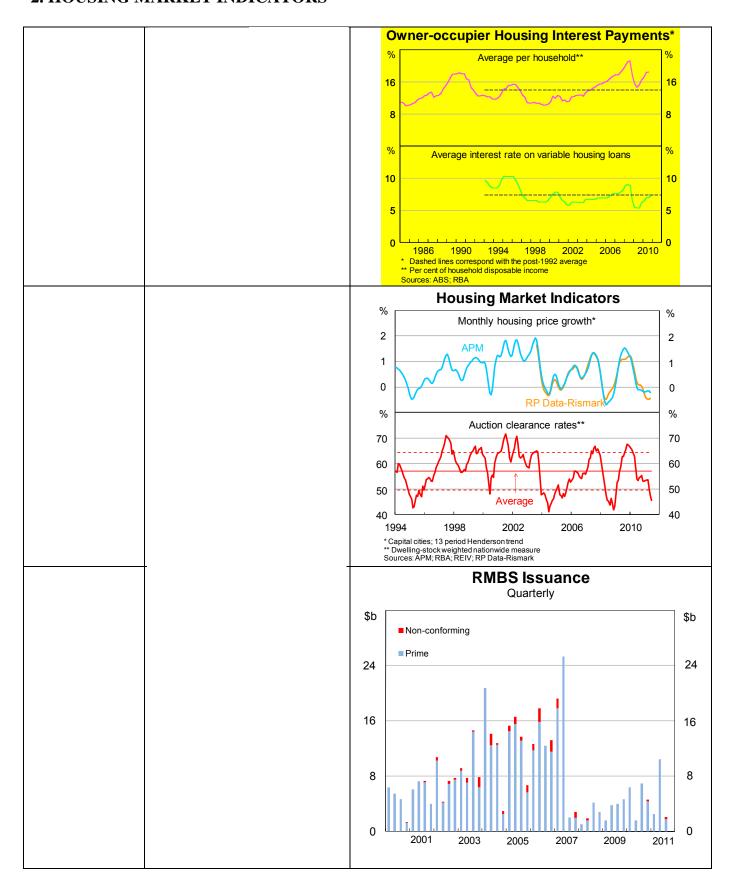








2. HOUSING MARKET INDICATORS



0

-5

ABS

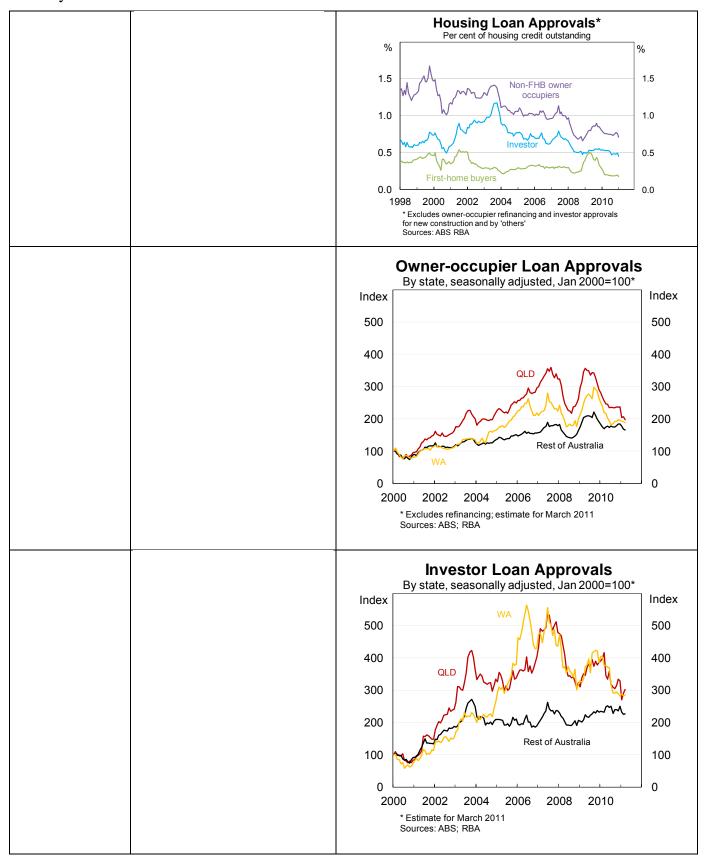
1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010

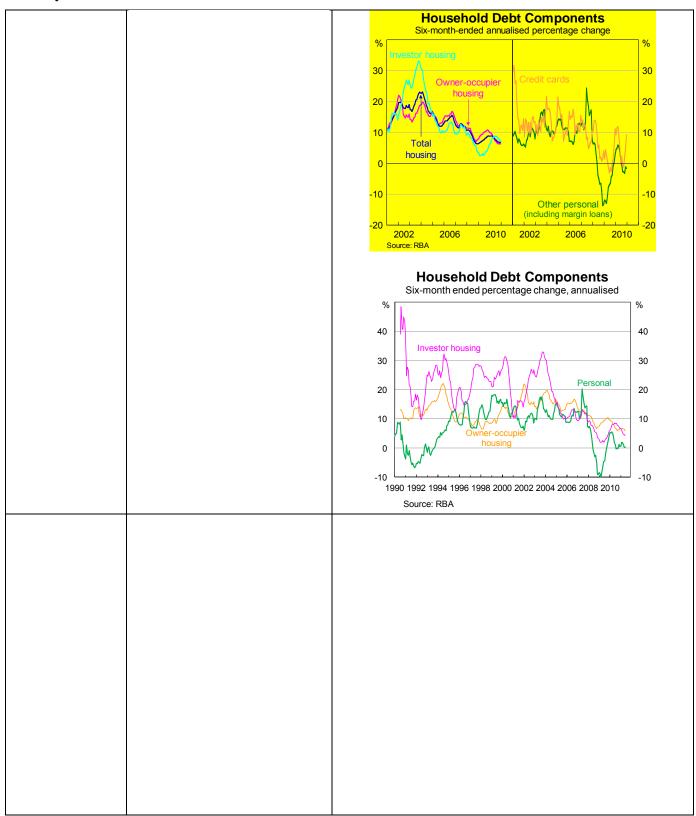
Sources: ABS; APM; CBA; REIA; RP Data-Rismark

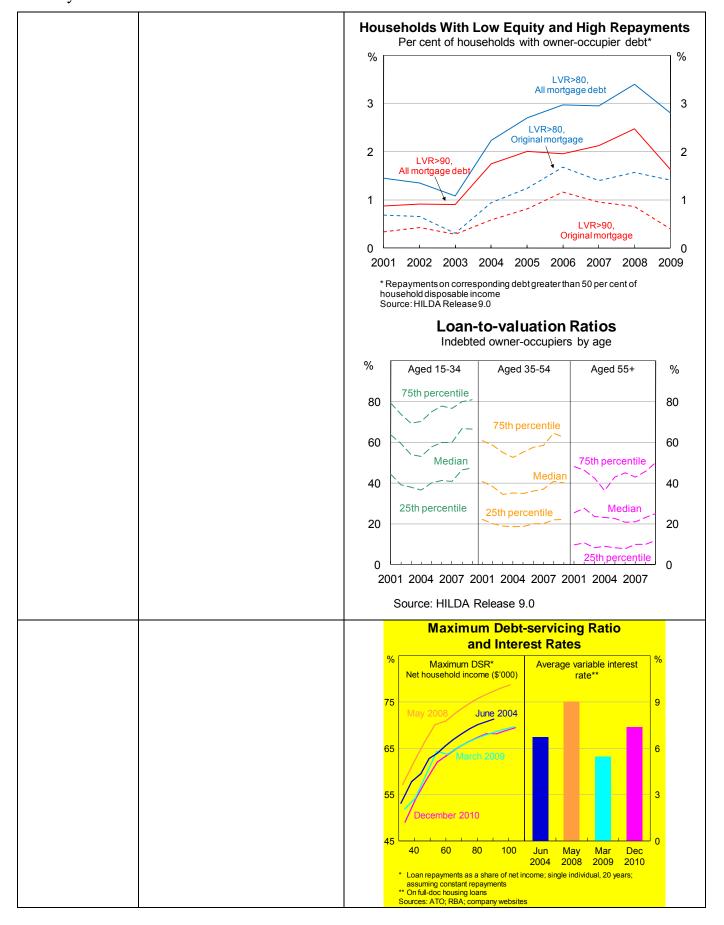
RP Data-Rism

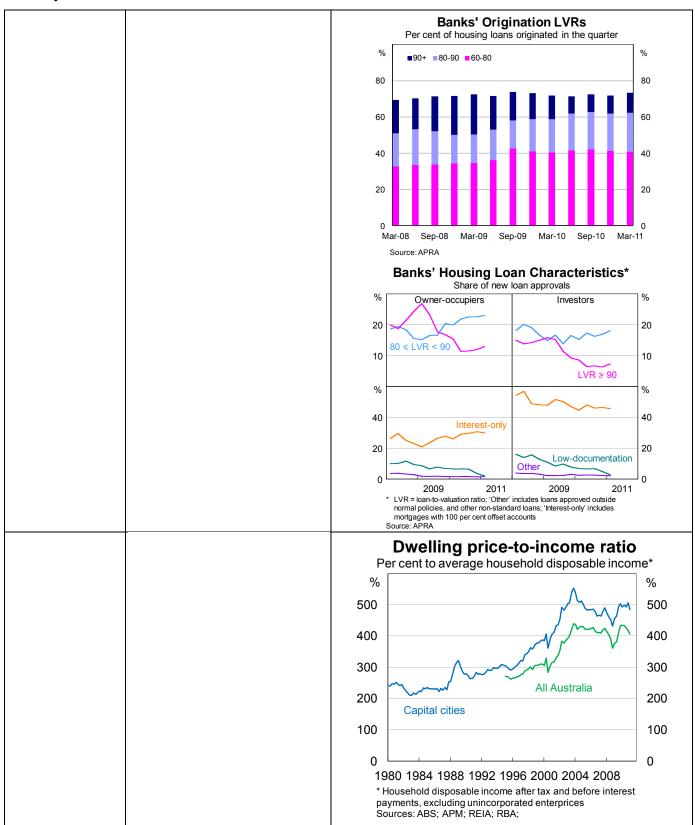
0

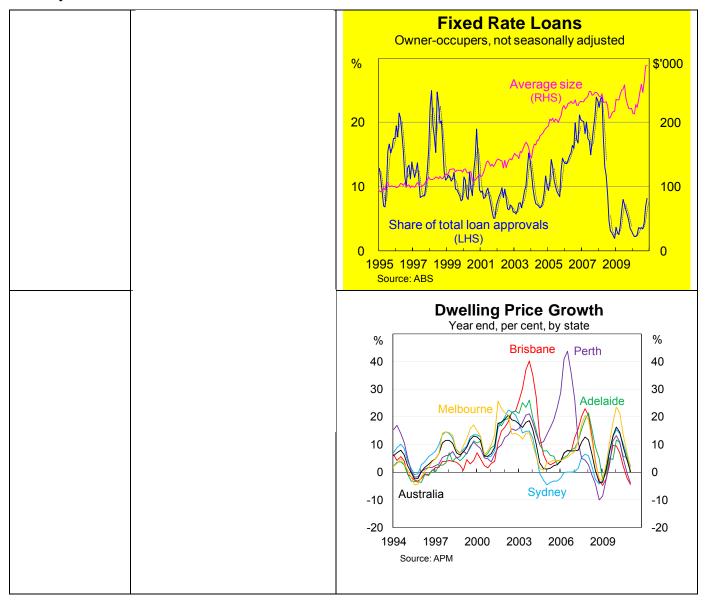
-5 -10











LOMAS, Phil

From: JOHNSON, Robert

Sent: Monday, 18 July 2011 18:06

To: Notes policy groups

Subject: Securitised housing loan arrears - May 2011 [SEC=UNCLASSIFIED]

Key points:

 Arrears rates on securitised housing loans continued to increase in May. The 90+ days arrears rate is now around 20 basis points higher than at the end of 2010 and only 3 basis points below its peak in early 2009. Seasonal factors are only a small contributor to the recent increase, which is also evident when self-securitised loans are included in the pool.

- Although the arrears rate on fixed-rate loans has trended up since the end of 2007, the increase in the
 arrears rate over 2011 has been much sharper for variable-rate loans. This suggests that interest rates
 may be a key factor behind the recent increase in arrears rate. However, loans made since 2009 have
 performed relatively well given their seasoning, reflecting the tightening in lending standards in late
 2008 and early 2009.
- The 90+ days arrears rate on low-doc loans, which now account for less than 8 per cent of the prime securitised mortgage pool, remains around five times the arrears rate on full-doc prime loans.
- The 90+ days arrears rate rose in all states in May, with the exception of Western Australia where it
 moderated by 1 basis point. The increase was largest in Queensland, taking the cumulative increase in
 its arrears rate to 32 basis points since the start of the year. Queensland now has the second highest
 arrears rate after New South Wales. Some of this increase likely reflects the recent natural disasters in
 this state.

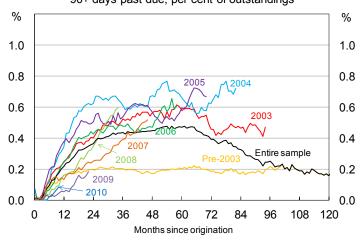
For more information, please see D11/134402

Rob Johnson | Senior Analyst | Financial Stability Department RESERVE BANK OF AUSTRALIA | 65 Martin Place, Sydney NSW 2000 p: +61 2 9551 8546 | f: +61 2 9551 8052 | w: www.rba.gov.au

Graph 1

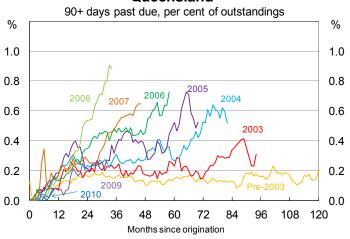
Securitised Housing Loan Arrears by Cohort*

90+ days past due, per cent of outstandings



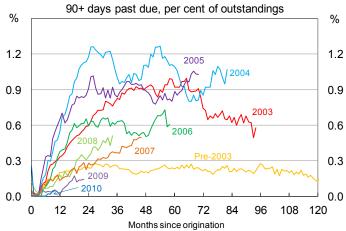
* Full-doc and low-doc loans securitised by all lenders, includes self-securitisations Source: Perpetual

Graph 3
Securitised Housing Loan Arrears by Cohort
Queensland*



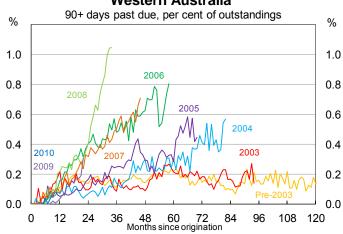
* Full-doc and low-doc loans securitised by all lenders, includes self-securitisations Source: Perpetual

Graph 2
Securitised Housing Loan Arrears by Cohort
New South Wales*



* Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual

Graph 4
Securitised Housing Loan Arrears by Cohort
Western Australia*



* Full-doc and low-doc loans securitised by all lenders, includes selfsecuritisations Source: Perpetual From: <u>VAN UFFELEN, Luke</u>

To: <u>ELLIS, Luci</u>; <u>THOMPSON, Chris</u>

Cc: DONOVAN, Bernadette; BAILEY, Owen; TELLEZ, Eduardo

Subject: Bank of Queensland Basel II Pillar 3 Disclosure - May 2011 [SEC=UNCLASSIFIED]

Date: Thursday, 28 July 2011 17:46:24

Bank of Queensland Basel II Pillar 3 Disclosure - May 2011

Bank of Queensland released its May Quarter 2011, Basel II Pillar 3 disclosure yesterday. The key points are:

• The ratio of non-performing loans was 2.9 per cent, up from 2.7 per cent in the previous quarter. Specifically, the ratio of non-performing residential mortgages increased to 1.5 per cent from 1.4 per cent while the ratio of 'other' (i.e. business and personal) non-performing loans increased to 6.9 per cent from 6.1 per cent over the quarter.

Luke Van Uffelen Financial Stability Department 28 July 2011

LOMAS, Phil

From: VAN UFFELEN, Luke

Sent: Thursday, 28 July 2011 17:46
To: ELLIS, Luci; THOMPSON, Chris

Cc: DONOVAN, Bernadette; BAILEY, Owen; TELLEZ, Eduardo

Subject: Bank of Queensland Basel II Pillar 3 Disclosure - May 2011 [SEC=UNCLASSIFIED]

Bank of Queensland Basel II Pillar 3 Disclosure - May 2011

Bank of Queensland released its May Quarter 2011, Basel II Pillar 3 disclosure yesterday. The key points are:

• The ratio of non-performing loans was 2.9 per cent, up from 2.7 per cent in the previous quarter. Specifically, the ratio of non-performing residential mortgages increased to 1.5 per cent from 1.4 per cent while the ratio of 'other' (i.e. business and personal) non-performing loans increased to 6.9 per cent from 6.1 per cent over the quarter.

Luke Van Uffelen Financial Stability Department 28 July 2011



Financial Stability Overview

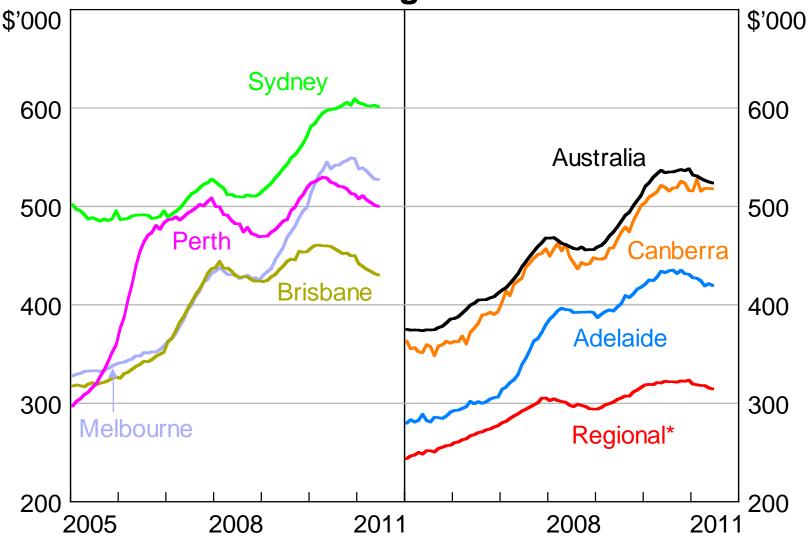
Presentation to ADI Supervisors'
Conference, 3 August 2011
Luci Ellis, Head of Financial Stability
Reserve Bank of Australia



Macroeconomic Environment



Dwelling Prices



* Excluding apartments; measured as areas outside of capital cities in New South Wales, Queensland, South Australia, Victoria and Western Australia

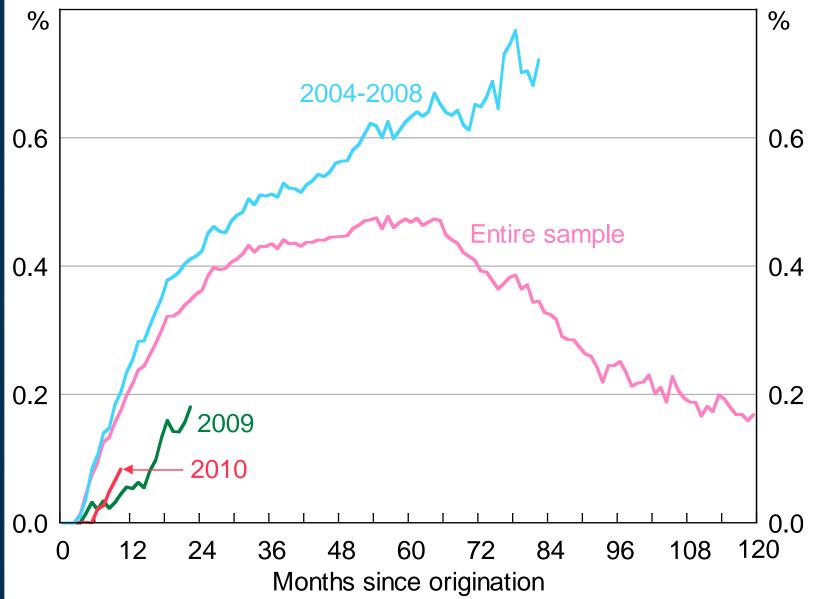


Conditions in the ADI Sector



Securitised Housing Loan Arrears by Cohort

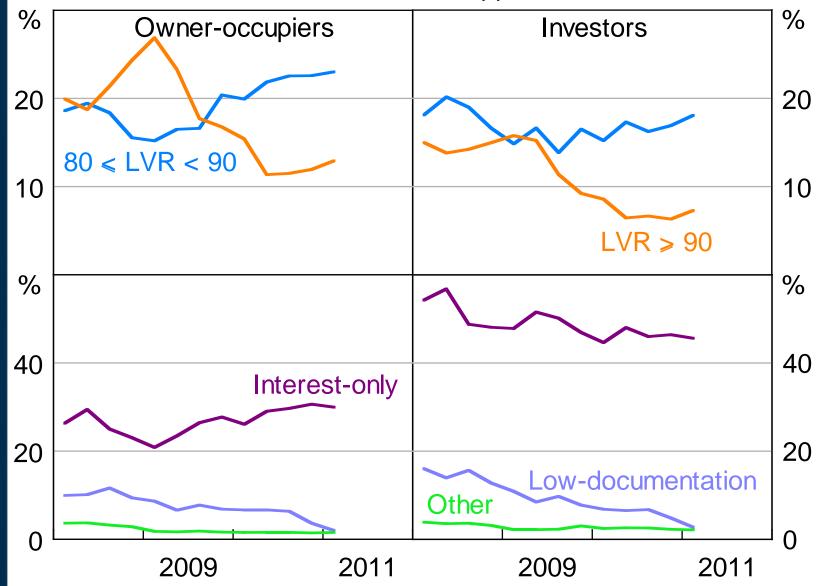
90+ days past-due, per cent of outstandings





Banks' Housing Loan Characteristics

Share of new loan approvals



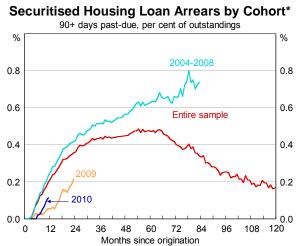
From: JOHNSON, Robert
To: <u>Emma Doherty</u>

Cc:Lamorna Rogers; Susan StiehmSubject:RE: Graphs for Ric [SEC=UNCLASSIFIED]Date:Friday, 5 August 2011 10:08:14

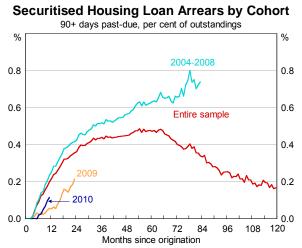
Attachments: Doc1.docx

2010 - FS

Securitised housing loan arrears in Australia by cohort – 4 lines: 2004-08, entire sample, 2009,



* Full-doc and low-doc loans securitised by all lenders, includes self-securitisations Source: Perpetual



LOMAS, Phil

From: TELLEZ, Eduardo

Sent: Friday, 5 August 2011 09:42 **To:** DONOVAN, Bernadette

Cc: BAILEY, Owen

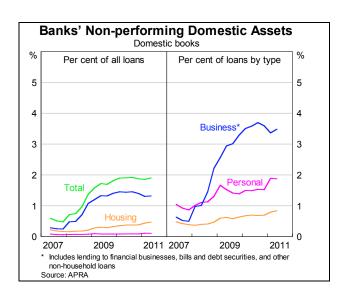
Subject: FSR graphs and links - Asset Quality & Credit Growth [SEC=UNCLASSIFIED]

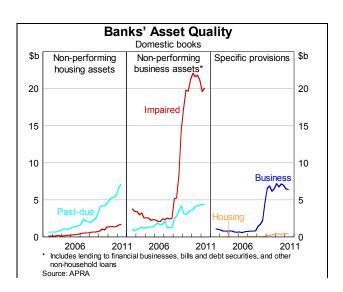
Ed Tellez | Analyst | Financial Stability Department RESERVE BANK OF AUSTRALIA | 65 Martin Place, Sydney NSW 2000 p: +61 2 9551 8516 | f: +61 2 9551 8052 | w: www.rba.gov.au

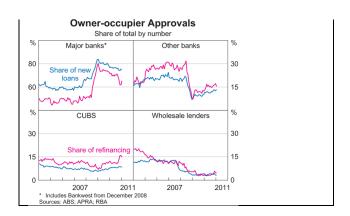
ASSET QUALITY AND CREDIT GROWTH

Board and FSR Graphs

Asset Quality







BENDIGO AND ADELAIDE BANK 2011 FULL YEAR PROFIT RESULTS

Bendigo and Adelaide Bank (Bendigo) today released its profit results for the year ending 30 June 2011.

Asset quality
Bendigo commented that their overall credit quality is sound with 90-day arrears for both the bank's residential mortgages and business lending portfolios remaining steady over the year. There was also a fall in credit card and personal loan arrears within the consumer portfolio.
Source: Bendigo and Adelaide Bank's full-year 2011 results presentation.

Luke Van Uffelen and Luke Cayanan Financial Stability and Domestic Markets Departments 8 August 2011

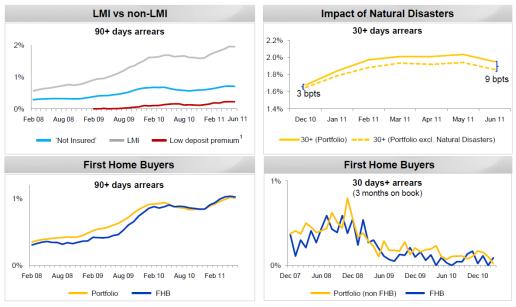
CBA 2011 FULL-YEAR PROFIT RESULT

CBA today released its profit results for the year ending 30 June 2011.

Asset quality

CBA's 90+ day mortgage arrears rate increased from 1.02 per cent to 1.17 per cent over the full year, with the increase occurring during the second half. The rise in arrears was driven by the elevated volume of loans originated in 2008 and early 2009, the impact of higher interest rates on the monthly repayments of borrowers as well as recent natural disasters. CBA estimates that the natural disasters are adding 9 basis points to their 30+ day arrear rates, as at June 2011 (Figure 1). In additional breakdowns, the performance of First Home Buyers has been very similar to other borrowers over the last year or so. By state, 90+ day arrears are highest in Queensland, followed by WA (Figure 2). CBA also experienced a slight uptick in 90+ day credit card arrears over the year, although the arrears rate improved notably for personal loans.

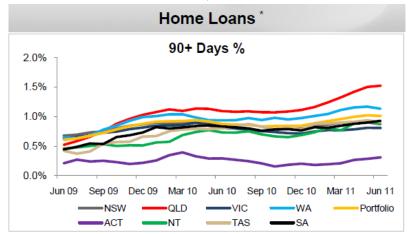
Figure 1 Home loan arrears



All graphs are CBA-domestic excluding Bankwest

Low Deposit Premium (LDP): Rather than taking out LMI policies for all loans with an LVR>80%, we charge the customer a premium similar to LMI, but take on the risk and use the premium to offset the higher economic capital charge, targeted at low risk customers.

Figure 2 Arrears rates, domestic



Luke Van Uffelen and Luke Cayanan Financial Stability and Domestic Markets Departments 10 August 2011

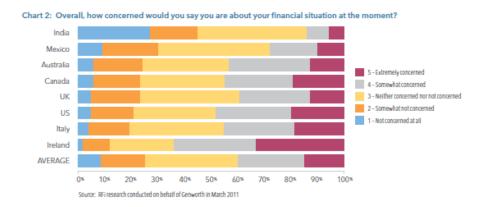
GENWORTH INTERNATIONAL MORTGAGE TRENDS REPORT – JUNE 2011

Genworth published in June 2011 its first International Mortgage Trends Report, with the aim of gaining insight into local market conditions. The report features data on eight countries, including Australia, based on surveys of at least 1,000 respondents in each country. The survey were conducted in March 2011.

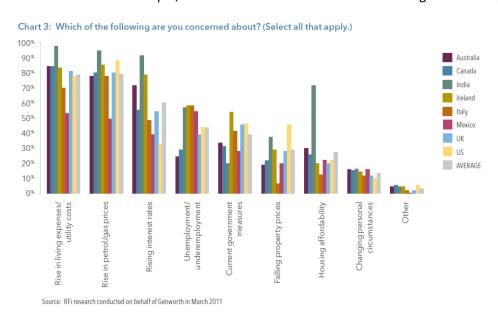
The survey results suggest that Australians have more divergent views of their financial situation than respondents from other surveyed countries. They also had a greater tolerance for high debt levels than most other surveyed countries, although they were more likely to make overpayments on their mortgages. Australian respondents experiencing repayment difficulties tended to attribute this to increased living costs, too much debt and increased repayments.

Financial situation

With the exception of Canada, survey respondents from Australia had more divergent views of their financial situation than the other countries in the sample. While a relatively high share (around 25 per cent) were unconcerned or somewhat unconcerned about their financial situation, over 60 per cent were somewhat or extremely concerned, comparable with proportion of concerned households in Italy and Canada, and higher than the proportion of concerned households in the UK.



Australian respondents that were concerned about their financial positions largely attributed this to the rise in living expenses/utility costs, the rise in petrol/gas prices, and rising interest rates. Australian respondents were generally less concerned about unemployment/underemployment and falling property prices than most of the other countries in the sample, but were more concerned about housing affordability.



¹ The other countries in the report were Canada, India, Ireland, Italy, Mexico, the UK, and the US.

Attitude to debt

A higher proportion of respondents from Australian were comfortable borrowing more than 80 (and more than 90) per cent of the value of their property than respondents from the other countries in the sample. This comfort with higher debt levels was also evident in the debt servicing levels of Australian households; 39 per cent of Australian respondents were using over half their income to service their debts (this is far higher than in the 2009 HILDA survey, where 9 per cent of indebted owner-occupiers had a debt servicing ratio in excess of 50 per cent).

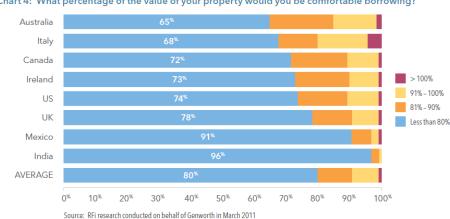
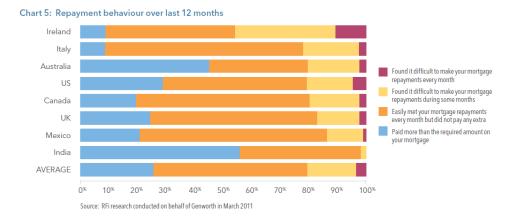


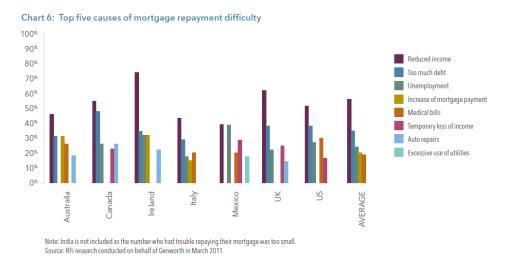
Chart 4: What percentage of the value of your property would you be comfortable borrowing?

Despite the apparent high indebtedness and high willingness of Australians to take on debt, a very high proportion of Australian respondents (nearly 50 per cent) were able to pay more than the required amount on their mortgage over the previous 12 months. Genworth suggested that this may be explained by the prevalence of variable rate mortgages in Australia, which are more likely to allow borrowers to make overpayments. A significant minority of Australian respondents, around 20 per cent, found it difficult to make their mortgage payments in at least some months. This is a similar proportion to Italy, and is higher than the UK, despite both countries having substantially higher mortgage arrears rates. Canada also had a similar proportion of respondents experiencing some difficulties in making their mortgage repayments, as did the US, although a far higher proportion of US respondents found it difficult to make mortgage payments every month. A slightly smaller proportion of recent first home buyers² in Australia were experiencing repayment difficulties compared to other Australian homeowners.



² Those that had bought in the previous 12 months.

The main causes of mortgage repayment difficulty for Australian respondents were reduced income, too much debt and increased mortgage payments. Medical bills and auto repairs also contributed, suggesting some households do not leave themselves with sufficient flexibility to meet unexpected large expenses.



Other

The Report suggested that one in five potential Australian first home buyers were spending at least 50 per cent of their income on debt repayments. This was the highest figure among the surveyed countries, with the exception of the US and Canada. More than 40 per cent of potential Australian first home buyers were spending at least 30 per cent of their income on debt servicing, the highest in the sample.

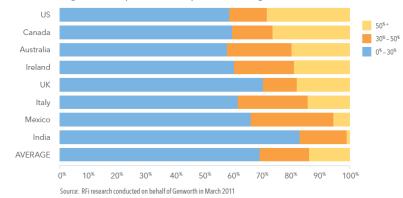


Chart 8: Percentage of income potential FHBs spend on servicing debt

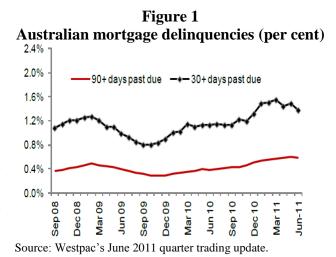
In total, 30 per cent of surveyed Australians owned at least one investment property as well as a residential property, and 5 per cent owned at least one investment property but did not have a residential property.

Rob Johnson (x8546) Financial Stability Department 15 August 2011

WESTPAC TRADING UPDATE - THREE MONTHS TO JUNE 2011

Westpac today released its trading update for the three months to June 2011.

Within Westpac's Australian mortgages portfolio, loans over 90 days past due increased 3 basis points to 0.59 per cent (Figure 1). However, loans over 30 days past due fell by 17 basis points as the effects of the natural disasters earlier in the year on borrowers began to ease.



Westpac also noted that the first home buyer segment continued to perform better than the total portfolio.

Luke Van Uffelen and Luke Cayanan Financial Stability and Domestic Markets Departments 16 August 2011