AUSTRALIAN MARKETS WEEKLY

National Australia Bank

Population in the spotlight

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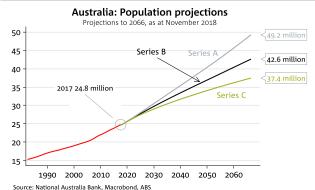
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- Population growth has become an important issue for the economy and associated
 politics. Major capital city congestion and housing affordability have become
 important issues for policy as federal and state governments grapple with the
 challenges and opportunities resulting from a brisk rate of population growth over
 recent years.
- As markets and the economy recalibrate the activity outlook for dwelling construction, governments have been setting a fast-paced agenda to lift infrastructure spend to cope with growth pressures. That agenda seems likely to remain for some time yet.
- Against that background, last week's update of population projections from the Statistician provides a new opportunity to reflect on the choices ahead and what those choices might mean for growth, housing, infrastructure, and more.
- This week, we unpack some of the major findings of the latest set of population projections, including the three growth scenarios.
- Based on the Statistician's "Series B" that assumes net immigration continuing at a
 rate that is close to recent levels, the population is projected to reach 30 million
 between 2029 and 2033. Further, Melbourne's population is expected to become the
 largest in 2037. (We caution that this assumes recent state migration conditions
 persist over time.)
- This week, the local market will have at least one eye on the local economy with the release of two upcoming GDP partials with the release of Construction Work Done (CWD) on Wednesday and New Private Capital Expenditure on Thursday. NAB is looking for 2% growth in CWD (above consensus) and a 0.4% rise in Capex, below consensus but from what we expect will be a higher Q2 base, from revisions. NAB's pre-partials model estimate for Q3 GDP is 0.6%, annual growth of 3.3%.
- Also on the local data schedule this week is RBA Credit for October, normally far
 from the most sensitive of data releases. However, with increased focus on the flow
 of housing finance, this release is certainly on the market's radar screen. NAB (and
 the market) is looking for a second month of 0.4% growth. We would not be
 surprised if there was a further tilt away from housing toward business credit.
- Offshore, there is interest whether there will be a deal of sorts struck between
 President Trump and President Xi when they meet at the G20 meeting, that starts in
 Argentina on Friday. With the market having scaled back expectations for Fed rate
 hikes in 2020 to just over one hike, there'll be keen interest in Fed Chair Powell's
 economy views when he speaks to the Economic Club in New York on Wednesday.
 UK PM May will be especially busy this week cajoling parliamentarians for their
 support for the Brexit deal agreed with the EC over the weekend ahead of a
 contentious UK Parliamentary vote as early as next week.

To contact NAB's market experts, please click on one of the following links:

Ask the Economists
Ask the FX Strategists
Ask the Interest
Rate Strategists

Key markets this past week bp / % % chg chg week week Last Last AUD RBA cash 0.7246 -1.0 1.50 O AUD/CNY 5.03 -1.0 3y swap 2.16 -3 AUD/JPY **ASX 200** 82.0 -0.9 5,659 -0.3 AUD/EUR Iron ore 0.639 -0.4 64 -7.9 AUD/NZD WTI oil 1.067 0.1 50.9 -11.0 Source: Bloomberg

Chart 1: Onwards and upwards



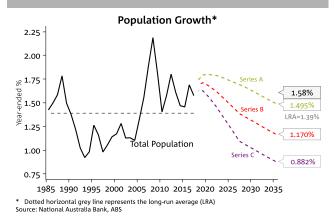
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Source: National Australia Bank, Macrobond, ABS * Series A/B/C: High, Mid, and Low fertility, life expectancy, and immigration assumptions

Population growth to ease, projections say

The latest quarterly estimates of Australia's population reveal growth of 1.55% over the year to the March quarter of 2018 and a population of 24.9 million. Population growth has averaged 1.6% over the past five years and 1.8% in the previous five years. Under the central scenario in the latest population projections – so-called 'Series B' – the population is projected to rise from 25 million to 30 million around 2030. Series B is the middle growth scenario, the others being for low and high growth alternatives.

Chart 2: Growth eases back



While Chart 1 on the first page leaves you with the impression of an ever-increasing population, it is clear even from that chart that growth is highly sensitive to the embedded growth assumptions behind the projections.

Series A is essentially a high(er) growth scenario under which assumes a higher fertility rate and increased life expectancy. The combination of these factors - the natural rate of increase in the population - has contributed in the past decade around 40% of population growth. The remaining larger contribution has been from net overseas migration, a more contentious element — accounting for around 60% of growth in the past decade, and even a bit larger in the year to June 2017, contributing 64%.

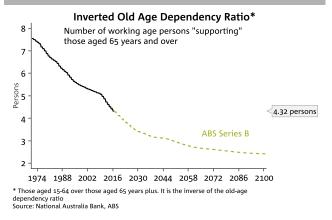
While population numbers are projected to continue increasing, growth rates are not. In the ten years to 2027, the growth rate for Series B is projected to progressively ease, from 1.6% to 1.4%, while for the following 15 years, the growth rate falls further, to 1.2%, growth rates not seen since the 1990s.

This easing back in population growth stems from the assumed *unchanged level* of annual net overseas migration, regardless of population size. For Series B, that is an assumption of an annual intake of 225,000, a little above the past five year average of 214,000, but below the 237,000 for the year to March 2018.

Clearly, if net overseas migration is assumed to remain unchanged, this will become a progressive headwind to population growth. Even under Series A, where net overseas migration is assumed at 275,000 per year, population growth will ease from its current 1.6% to 1.4% over the decade to 2027 and to 0.9% in the ensuing 15 years.

Interestingly, if net overseas migration were to cease, Australia's population would begin to decline from 2040 with births then less than deaths.

Chart 3: Increased age dependency



Population ageing

With below-replacement levels of fertility and increased life expectancy, the population is projected to continue ageing. The median age of Australia's population increases from 37.2 years at 30 June 2017 to between 39.5 years and 43 years in 2066 depending on the assumed scenario.

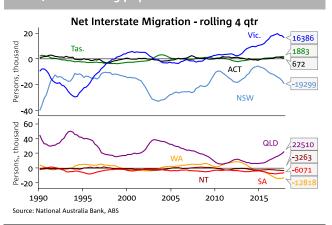
With increased focus on aged care and associated health needs, the cohort of the population that is aged 65 years and over is projected to rise from 15% to between 21% (series A and B) and 23% (series C) by 2066. The cohort of the population aged less 15 years old is projected to decrease from 19% at 30 June 2017 to between 16% and 18% by 2066.

We also note in this context that age dependency is also a function of net overseas migration, migrants typically having a lower average age than the already existing resident population.

State growth projections—driven by linear assumptions

The Statistician has also projected population growth for each of the States, based on the current starting point and existing trends in interstate migration. That is, more of the same.

Chart 4: The floating population



Melbourne is projected to be the largest city in Australia with a projected population between 8.6 and 12.2 million by 2066, surpassing Sydney in 2037 under Series B.

In this respect, while we understand the linear assumptions used in such projections and the difficulty of preparing "forecasts" based on dynamic factors, such assumptions can be limiting with outcomes that will inevitably prove to be very different.

Over recent years, NSW has been losing population to the other States, with signs even that inflows to Victoria are slowing and to Queensland picking up. WA has seen an outflow of migration to the other states in recent years as the boost to recruitment from mining expansion faded.

There is a multiplicity of factors affecting interstate migration, factors that are very difficult to predict. These

include an increase or decline in job opportunities across state borders, the cost of living and housing affordability, as well as personal and lifestyle factors.

By the same token, the attractiveness of Australia as a destination will depend on many of the same factors, liveability and other factors affecting personal choice. While policy on net overseas migration can change, actual migration levels can also reflect the attractiveness of Australia as an international destination of choice, factors including economic, social and lifestyle issues that can and do change over time.

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CALENDAR OF ECONOMIC RELEASES

	Economic Indicator	Period	Forecast	Consensus	Actual	Previous	GMT	AEDT
Monday, GE	26 November 2018 IFO Business Climate/Current Assessment	Nov		102.3/105.3		102.8/105.9	9.00	20.00
iC.	ECB's Praet Speaks in Frankfurt	1404		102.3/103.3		102.0/ 103.9	9.00	20.00
C	ECB's Draghi Speak in European Parliament in Brussels						14.00	1.00
ıK	BOE Governor Carney, former Fed Chairman Greenspan Speak						18.30	5.30
	27 November 2018	0-4		0.4/4.4		24/26	a= N	D
E Z	Retail Sales MoM/YoY Trade Balance NZD	Oct Oct	745	0.4/1.4 -850			27 Nov to 3	
S	Fed Vice Chairman Clarida Speaks in New York	Oct	-745	-050		-1560	21.45 13.30	8.45 0.30
S	FHFA House Price Index MoM	Sep		0.4		0.3	14.00	1.00
S	Conf. Board Consumer Confidence	Nov		135.8		137.9	15.00	2.00
C	ECB's Nouy, Costa Speak in Lisbon			-55.0		-37.3	15.00	2.00
S	Fed's Bostic, Evan and George Speak on Panel						19.30	6.30
/ednesd	lay, 28 November 2018							
K	Nationwide House PX MoM / YoY	Nov		0.1/1.7		0/1.6	3 Nov to 3 D	ec
Z	RBNZ Publishes Financial Stability Report						20.00	7.00
Z	RBNZ testifies to Parliament on FSR						22.00	9.00
U	Construction Work Done	3Q	2	0.9		1.6	0.30	11.30
K	BOE Financial Stability Report and stress test results	_					7.00	18.00
C	M3 Money Supply YoY	Oct		3.5		3.5	9.00	20.00
S	MBA Mortgage Applications	23 Nov				-0.1	12.00	23.00
S S	Wholesale Inventories MoM GDP Annualized QoQ	Oct P		0.4		0.4	13.30	0.30
S	GDP Price Index	3Q S 3Q S		3.6 1.7		3.5 1.7	13.30	0.30 0.30
IS	Core PCE QoQ	3Q S		1.6		1.6	13.30 13.30	0.30
ıs	Richmond Fed Manufact. Index	Nov		16		15	15.00	2.00
IS	Fed's Powell Speaks to Economic Club of New York	1101		10		10	17.00	4.00
	, 29 November 2018						27.00	4.00
N	Retail Sales MoM / YoY	Oct		0.4/2.7		-0.2/2.1	23.50	10.50
ΙZ	ANZ Business Confidence	Nov		17 7		-37.1	0.00	11.00
U	Private Capital Expenditure	3Q	0.4	1		-2.5	0.30	11.30
U	2018-19 Expected Cap.Ex	3Q	109	108.5			0.30	11.30
E	CPI Saxony MoM / YoY	Nov		/		0.2/2.5	8.00	19.00
iΕ	Unemployment Change (000's) / Claims Rate	Nov		-10/5.1		-11/5.1	8.55	19.55
ΙK	Mortgage Approvals	Oct		64.5		65.3	9.30	20.30
C	Economic Confidence / Consumer Confidence	Nov		109.1/-3.9		109.8/-3.9	10.00	21.00
iΕ	CPI MoM / YoY	Nov P		0.2/2.3		0.2/2.5	13.00	0.00
:A	Current Account Balance	3Q		-12		-15.88	13.30	0.30
IS	PCE Core MoM / YoY	Oct		0.2/1.9		0.2/2	13.30	0.30
IS IS	Initial Jobless Claims	24 Nov		220		224	13.30	0.30
IS	FOMC Meeting Minutes Fed's Evans Speaks on Panel on Inclusion at Boston Fed	8 Nov					19.00 19.00	6.00 6.00
	0 November 2018						19.00	0.00
	mit in Buenos Aires. Trump and Xi will meet and discuss trade						30 Nov to 1	Dec
IZ	ANZ Consumer Confidence Index	Nov				115.4	21.00	8.00
IZ	Building Permits MoM	Oct				-1.5	21.45	8.45
N	Jobless Rate	Oct		2.3		2.3	23.30	10.30
٧	Tokyo CPI YoY / Ex Fresh Food YoY	Nov		1.1/1		1.5/1	23.30	10.30
٧	Industrial Production MoM / YoY	Oct P		1.2/2.5		-0.4/-2.5	23.50	10.50
U	Private Sector Credit MoM / YoY	Oct	0.4/4.7	0.4/4.6		0.4/4.6	0.30	11.30
Н	Manufacturing PMI	Nov		50.2		50.2	1.00	12.00
Н	Non-manufacturing PMI	Nov		53.8		53.9	1.00	12.00
		0 -4		-0.05		-1.474	5.00	16.00
	Housing Starts YoY	Oct					10.00	21.00
C	Unemployment Rate	Oct		8		8.1	10.00	
C C	Unemployment Rate CPI Estimate YoY	Oct Nov		2		2.2	10.00	21.00
C C	Unemployment Rate CPI Estimate YoY CPI Core YoY	Oct Nov Nov A		2 1.1		2.2 1.1	10.00 10.00	21.00
C C A	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM	Oct Nov Nov A Oct		2 1.1 -0.5		2.2 1.1 0.1	10.00 10.00 13.30	21.00 0.30
C C A A	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY	Oct Nov Nov A Oct Sep		2 1.1 -0.5 0.1		2.2 1.1 0.1 0.1	10.00 10.00 13.30 13.30	21.00 0.30 0.30
C C A A	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized	Oct Nov Nov A Oct		2 1.1 -0.5		2.2 1.1 0.1	10.00 10.00 13.30 13.30 13.30	21.00 0.30 0.30 0.30
C C C A A S	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York	Oct Nov Nov A Oct Sep 3Q		2 1.1 -0.5 0.1 1.95		2.2 1.1 0.1 0.1 2.9	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00
C C C A A A S S	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager	Oct Nov Nov A Oct Sep		2 1.1 -0.5 0.1		2.2 1.1 0.1 0.1	10.00 10.00 13.30 13.30 13.30	21.00 0.30 0.30 0.30 1.00
C C C A A A JS Jpcomir	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager ag Central Bank Interest Rate Announcements	Oct Nov Nov A Oct Sep 3Q Nov	1 5%	2 1.1 -0.5 0.1 1.95		2.2 1.1 0.1 0.1 2.9	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00
C C C A A A S S J J J J J J J J J J J J J J J	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager ag Central Bank Interest Rate Announcements , RBA	Oct Nov Nov A Oct Sep 3Q Nov 4-Dec	1.5% 1.75%	2 1.1 -0.5 0.1 1.95 58.5		2.2 1.1 0.1 0.1 2.9 58.4	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00
ustralia anada,	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager In Central Bank Interest Rate Announcements RBA BOC	Oct Nov Nov A Oct Sep 3Q Nov 4-Dec 5-Dec	1.75%	2 1.1 -0.5 0.1 1.95 58.5 1.5% 1.75%		2.2 1.1 0.1 0.1 2.9 58.4 1.5%	10.00 10.00 13.30 13.30 13.30 14.00	
C C C A A A S S J J J J J J J J J J J J J J J	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager Ing Central Bank Interest Rate Announcements RBA BOC ECB	Oct Nov Nov A Oct Sep 3Q Nov 4-Dec 5-Dec 13-Dec	1.75% -0.4%	2 1.1 -0.5 0.1 1.95 58.5 1.5% 1.75% -0.4%		2.2 1.1 0.1 0.1 2.9 58.4 1.5% 1.75%	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00
C C C A A A S S J J J J J J J J J J J J J J J	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager In Central Bank Interest Rate Announcements RBA BOC	Oct Nov Nov A Oct Sep 3Q Nov 4-Dec 5-Dec 13-Dec 19-Dec	1.75% -0.4% 2.25-2.5%	2 1.1 -0.5 0.1 1.95 58.5 1.5% 1.75% -0.4% 2.25-2.5%		2.2 1.1 0.1 0.1 2.9 58.4 1.5% 1.75% -0.4% 2-2.25%	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00
C C C C.A C.A C.A JS JS JJpcomir Kustralia Kanada, I Kurope, E	Unemployment Rate CPI Estimate YoY CPI Core YoY Industrial Product Price MoM GDP MoM / YoY Quarterly GDP Annualized Fed's Williams Speaks on Global Economy at G30 in New York Chicago Purchasing Manager ng Central Bank Interest Rate Announcements , RBA BBC ECB ral Reserve	Oct Nov Nov A Oct Sep 3Q Nov 4-Dec 5-Dec 13-Dec	1.75% -0.4%	2 1.1 -0.5 0.1 1.95 58.5 1.5% 1.75% -0.4%		2.2 1.1 0.1 0.1 2.9 58.4 1.5% 1.75%	10.00 10.00 13.30 13.30 13.30 14.00	21.00 0.30 0.30 0.30 1.00

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FORECASTS

Economic Forecasts																				
		Annual %	် change								Qua	arterly 9	6 chang	e						
			2017				201	.8		2019			2020							
Australia Forecasts	2017	2018	2019	2020	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Household Consumption	2.7	2.9	2.5	2.5	0.4	0.9	0.6	1.1	0.5	0.7	0.6	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7
Underlying Business Investment	3.3	3.0	5.0	5.8	3.3	0.0	3.8	0.3	0.7	-0.7	1.3	0.1	2.1	1.5	1.8	1.4	1.2	1.7	1.1	1.3
Residential Construction	-2.2	2.7	-5.3	-1.9	-3.3	-0.2	-1.7	0.3	3.6	1.7	-2.6	-0.3	-2.2	-1.9	-0.9	-1.2	-0.3	0.0	0.3	0.6
Underlying Public Spending	4.5	4.6	4.2	4.5	0.9	1.1	1.6	1.1	1.5	0.6	0.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Exports	3.5	5.0	4.8	2.5	-1.6	2.3	1.0	-1.5	3.0	1.1	1.7	1.0	1.4	1.3	0.7	0.7	0.5	0.6	0.4	0.7
Imports	7.8	5.0	3.6	4.9	3.0	0.2	2.3	1.7	1.7	0.4	0.5	0.7	0.9	1.1	1.3	1.2	1.1	1.3	1.2	1.4
Net Exports (a)	-1.0	-0.1	0.1	-0.6	-1.0	0.4	-0.3	-0.7	0.2	0.1	0.2	0.0	0.1	0.0	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2
Inventories (a)	-0.1	0.1	-0.1	0.0	0.5	-0.9	0.4	0.0	0.2	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic Demand - qtr%					0.7	0.8	1.0	0.9	1.0	0.6	0.5	0.6	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.9
Dom Demand - ann %	3.0	3.2	2.6	3.0	2.3	2.6	3.6	3.4	3.7	3.4	3.0	2.6	2.3	2.4	2.7	2.9	2.9	3.0	3.0	3.1
Real GDP - qtr %					0.4	0.7	0.7	0.7	1.1	0.9	0.6	0.6	0.7	0.7	0.7	0.6	0.5	0.7	0.6	0.7
Real GDP - ann %	2.2	3.3	2.7	2.5	1.9	1.9	2.7	2.4	3.2	3.4	3.3	3.2	2.7	2.6	2.7	2.7	2.5	2.5	2.3	2.5
CPI headline - qtr %					0.5	0.2	0.6	0.6	0.4	0.4	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.8	0.9
CPI headline - ann %	1.9	2.0	2.0	2.6	2.1	1.9	1.8	1.9	1.9	2.1	2.0	1.9	1.9	1.9	1.9	2.1	2.2	2.5	2.7	2.9
CPI underlying - qtr %					0.4	0.6	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.7
CPI underlying - ann %	1.8	1.9	2.0	2.4	1.7	1.8	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.3	2.5	2.7
Wages (Pvte WPI - qtr %					0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Wages (Pvte WPI - ann %)	1.8	2.1	2.5	2.7	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.2	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8
Unemployment Rate (%)	5.6	5.4	5.1	4.9	5.9	5.6	5.4	5.4	5.5	5.5	5.3	5.3	5.2	5.0	5.0	5.0	4.9	4.8	4.8	4.9
Terms of trade	12.2	-0.7	-0.7	0.0	5.2	-5.7	-0.1	-0.1	3.6	-1.3	-1.7	-3.4	-0.8	-1.2	-0.9	0.3	-0.4	0.3	-0.4	0.2
G&S trade balance, \$Abn	10.0	7.4	-12.7	-27.5	6.8	2.9	1.6	-1.4	3.3	2.8	2.3	-1.1	-1.4	-2.5	-4.2	-4.5	-5.6	-6.1	-7.5	-8.2
% of GDP	0.6	0.4	-0.6	-1.3	1.5	0.7	0.4	-0.3	0.7	0.6	0.5	-0.2	-0.3	-0.5	-0.9	-0.9	-1.1	-1.2	-1.5	-1.6
Current Account (% GDP)	-2.6	-3.0	-4.1	-4.8	-1.6	-2.5	-2.8	-3.6	-2.5	-2.9	-3.0	-3.7	-3.7	-4.0	-4.3	-4.3	-4.6	-4.6	-4.9	-5.0

Source: NAB Group Economics; (a) Contributions to GDP growth

	ate Foreca					
	26-Nov	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
Majors						
AUD/USD	0.7246	0.71	0.72	0.73	0.75	0.75
NZD/USD	0.6789	0.65	0.65	0.66	0.68	0.69
USD/JPY	113.24	112	110	110	108	106
EUR/USD	1.1339	1.18	1.20	1.22	1.25	1.30
GBP/USD	1.2814	1.26	1.28	1.30	1.34	1.40
USD/CHF	0.9976	0.96	0.94	0.95	0.94	0.91
USD/CAD	1.3214	1.27	1.26	1.25	1.25	1.24
USD/CNY	6.9440	6.90	7.10	7.20	7.20	7.15
Australian Cross Ra	ites					
AUD/NZD	1.0673	1.10	1.11	1.11	1.11	1.09
AUD/JPY	82.1	79	79	80	81	80
AUD/EUR	0.6390	0.60	0.60	0.60	0.60	0.58
AUD/GBP	0.5655	0.56	0.56	0.56	0.56	0.54
AUD/CNY	5.0316	4.90	5.11	5.26	5.43	5.36
AUD/CAD	0.9575	0.90	0.91	0.91	0.94	0.93
AUD/CHF	0.7229	0.68	0.68	0.69	0.71	0.68
Interest Rat	_					

interest Rate Forecasts										
	26-Nov	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19				
Australia Rates										
RBA Cash rate	1.50	1.50	1.50	1.75	1.75	2.00				
3 month bill rate	1.94	1.95	1.95	2.15	2.15	2.40				
3 Year Swap Rate	2.15	2.20	2.30	2.70	2.90	3.10				
10 Year Swap Rate	2.82	3.05	3.10	3.50	3.60	3.70				
Offshore Policy Rates										
US Fed funds	2.25	2.50	2.75	3.00	3.25	3.25				
ECB deposit rate	-0.40	-0.40	-0.40	-0.40	-0.20	0.00				
BoE repo rate	0.75	0.75	0.75	1.00	1.00	1.25				
BoJ excess reserves rate	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10				
RBNZ OCR	1.75	1.75	1.75	1.75	2.00	2.25				
China 1yr lending rate	4.35	4.35	4.35	4.35	4.35	4.35				
China Reserve Ratio	14.5	16.0	16.0	16.0	16.0	16.0				
10-year Benchmark Bond	d Yields									
Australia	2.63	3.00	3.05	3.30	3.40	3.50				
United States	3.05	3.25	3.25	3.50	3.50	3.50				
New Zealand	2.65	3.10	3.20	3.45	3.60	3.70				

Sources: NAB Global Markets Research; Bloomberg; ABS

Global GD	Р						
Dec year	2015	2016	2017	2018	2019	2020	20 Yr Avge
Australia	2.5	2.6	2.2	3.3	2.7	2.5	3.4
US	2.9	1.5	2.3	2.8	2.3	1.7	2.6
Eurozone	2.1	1.8	2.6	2.1	2.0	1.8	1.5
UK	2.3	1.9	1.8	1.5	1.7	1.6	2.4
Japan	1.4	0.9	1.7	0.9	1.0	0.7	0.8
China	6.9	6.7	6.9	6.5	6.3	6.0	9.2
India	8.2	7.1	6.7	6.8	7.2	6.9	6.6
New Zealand	3.5	4.0	2.8	2.9	2.9	2.7	3.0
World	3.5	3.2	3.8	3.8	3.7	3.5	3.5
MTP Top 5	4.1	3.8	4.2	4.0	3.8	3.4	5.0

Commodity prices (\$US)										
	26-Nov	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19				
Brent oil	59.7	82	85	80	77	78				
Gold	1225	1247	1276	1297	1305	1318				
Iron ore	64.2	68	63	60	61	62				
Hard coking coal	221	195	180	175	160	165				
Thermal coal	102	110	105	103	101	100				
Copper	6227	6250	6350	6500	6600	6700				
Aust LNG (*)	15.2	13.5	14.3	14.6	13.4	13.0				

^(*) Implied Australian LNG export prices.

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