

# Weekly Economic Commentary.

## How severe?

There was a definite bounce in the economy after the Alert Level 4 lockdown was lifted, but we are still in a deeply recessionary environment. Our forecast was that the economy would settle 6% below the pre-Covid level after the lockdown was lifted. But some recent data is tentatively suggesting that the economic situation may not be quite as severe as that. This has seen some easing in the risk-off sentiment that had permeated through financial markets in recent months.

Retail spending rebounded surprisingly vigorously after the lockdown was lifted. When New Zealand was at Alert Level 4, data from Paymark indicates that overall retail spending dropped 50% compared to pre-Covid levels, with spending in areas other than groceries down 90%. Now that we're back to Alert Level 2, spending levels are down only 2% on the same time last year. Some of that will be catch-up spending after the lockdown, and sectors like tourism and hospitality are still struggling with sluggish demand. Even so, that is a faster recovery than we were expecting and points to an encouraging degree of resilience in households' spending appetites.

Some key high-level indicators of activity are also pointing to a faster recovery than we had expected. For instance, during the lockdown electricity demand fell 15% but is now back around the levels we saw this time last year. Similarly, both heavy and light traffic movements have recovered most of their lockdown related declines, signalling that both people and goods are moving around the country again.

The pace of job losses has slowed in recent weeks, suggesting that the labour market has been more resilient than we expected. During the Alert Level 4 lockdown, we saw the number of New Zealanders on the Jobseeker benefit rising by more than 6,000 each week. In the week ending 22 May, that pace had slowed to 384. We've also seen some recovery in businesses' demand for workers, with a pickup in the number of job advertisements.



The number of people on the Jobseeker benefit has risen by more than 40,000 since Covid-19 restrictions were put in place. But while that is a very large increase, it has actually been more modest than we expected. In large part, that's because the Government's wage subsidy scheme has helped to keep many people in employment. We are likely to see further job losses over the coming months as the wage subsidy scheme comes to an end and businesses wrestle with weak demand. Even so, it looks like unemployment may not rise quite as high as our forecast of 9.5%.

It's a bit more of a mixed picture in the housing market. Now that the lockdown has been lifted, sellers are coming back to the market, with new listings rising at a steady pace over the past couple of weeks (though they remain below pre-Covid levels).

However, while sellers may be dipping their toes in the water, buyers are more circumspect. April's survey of housing market confidence showed a drop in the number of people who think now is a good time to buy, and a sharp fall in the number of people who think prices will rise over the coming year. That's despite extremely low interest rates and the removal of LVR mortgage lending restrictions. We've already seen a sharp fall in house prices in April, with the average sale price dropping by 1.1% just in one month (though the low number of sales during the lockdown means that sharp monthly drop does need to be taken with a grain of salt). We are forecasting a 7% house price decline between March 2020 and the end of the year.

While recent developments have on balance been a bit better than expected, the economy is still being buffeted by powerful headwinds. That's particularly evident in the business sector, with recent surveys like the PMI and PSI pointing to significant falls in demand and forward orders. There are also signs of stress on businesses' financial positions. For instance, over the past month, data from Re-Leased show that the number of commercial tenants who have been late making rental payments has risen sharply. There has also been a significant increase in the number of businesses that are seeking some form of rent relief, as well as a rise in vacant commercial premises.

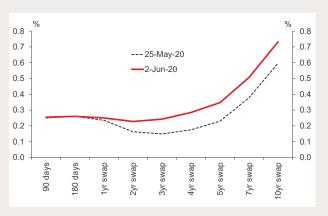
We expect that the combination of weak demand, pressures on businesses' balance sheets and lingering nervousness about the economic outlook will be a drag on investment spending. In fact, surveys of businesses' investment intentions are currently around multi-decade lows. That will be very important for the construction sector. As discussed in our recently released Economic Insight report, <sup>1</sup> although construction has picked up as the lockdown has been lifted, we expect a second downturn in construction activity over 2021. That includes falls in both privately funded residential and non-residential projects. Those falls will more than offset the planned increases in public spending in areas like infrastructure.

## Fixed vs Floating for mortgages.

The interest rate outlook is highly uncertain, so trying to guess which fixed term will result in the lowest interest repayments is difficult. It may be better to keep it simple. Borrowers looking for certainty should aim to fix their mortgage rates, while borrowers who need flexibility should float.

Fixed mortgage rates have fallen recently, but they may not drop much further in the near term. We expect that the RBNZ will lower the OCR to -0.5% next year. If that is correct, then both fixed and floating rates will fall again next year.

#### **NZ** interest rates



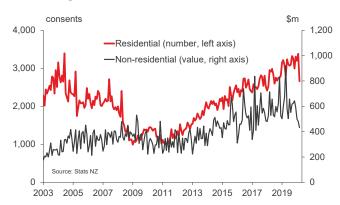
 $<sup>1 \</sup>quad \text{Available here: } \underline{\text{https://www.westpac.co.nz/assets/Business/Economic-Updates/2020/Bulletins-2020/Construction-Sector-Economic-Insight-May-2020-Final-Westpac-NZ.pdf}$ 

#### NZ Apr dwelling consents

#### June 2, Last: -21.3%, Westpac f/c: -60%

- Dwelling consent numbers fell 21% in March. This large drop in consent numbers was mostly due to New Zealand's shift into Alert Level 4, which meant that around 5 working days were lost in March.
- New Zealand remained in lockdown through most of April. As a result, few consents will have been lodged. However, a number of regions had backlogs of consents that were awaiting processing prior to the lockdown, and many councils continued to process consents over this period with staff working remotely.
- We are expecting a 60% decline in consent numbers over the month.
   There is a much wider bound of uncertainty around this forecast than usual.

#### NZ building consents



#### NZ Q1 terms of trade

#### Jun 2, Last: +2.6%, WBC f/c: -1.0%

- New Zealand's terms of trade fell slightly in the March quarter, after having reached a new all-time high at the end of 2019.
- We estimate that export prices were 1.4% lower over the quarter. While dairy prices saw a small rise, there were sizeable prices falls for meat, seafood, logs and crude oil. We expect a 0.4% drop in import prices, with lower world prices for manufactured goods outweighing the lower New Zealand dollar.
- The Covid-19 pandemic is likely to see a further dip in the terms of trade this year, although lower agricultural export prices will be partly balanced out by the sharp fall in oil import prices.

#### NZ terms of trade

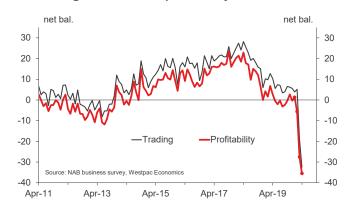


#### Aus Q1 company profits

#### Jun 2, Last: -3.5%, WBC f/c: flat Mkt f/c: 0.5%, Range: -3.5% to 2.5%

- A mixed picture for profits in the opening quarter of 2020. Mining profits up but non-mining profits crunched by the shutdowns in response to the pandemic.
- For the Business Indicators survey, we expect a flat outcome. The headline - on this accounting measure - will be flattered in this quarter by the Inventory Valuation Adjustment (the price of inventories rose after falling at the end of 2019).
- For the National Accounts measure, we expect a 1.5% decline.
- Mining profits are up on higher commodity prices, which rose by around 3% in AUD terms.
- For the broader economic, business conditions collapsed in the month of March, falling to -22 from +1, as social distancing guidelines were progressively introduced. That sharp drop in sales hit cash flows and profits.

#### Aus trading conditions and profitability

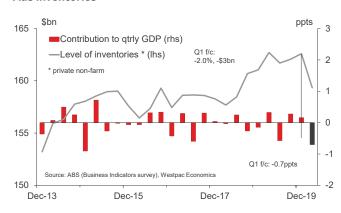


#### **Aus Q1 inventories**

Jun 2, Last: +0.3%, WBC f/c: -2.0% (-0.7ppts cont'n) Mkt f/c: -0.6%, Range: -2.0% to 0.3%

- The pandemic triggered a range of responses one of which was a likely run-down of inventories.
- For Q1, we expect inventory levels to be down sharply, potentially by as much as 2% - although we note the degree of uncertainty around this figure. In dollar terms, that is a drop in the order of \$3bn.
- Hoarding and panic buying led to the unusual sight of empty shelves at supermarkets with suppliers unable to keep up.
- Import volumes of goods fell by an estimated 5%, almost \$4bn, on weaker demand and supply disruptions.
- On our forecast, inventories will subtract -0.7ppts from activity in the quarter.

#### Aus inventories

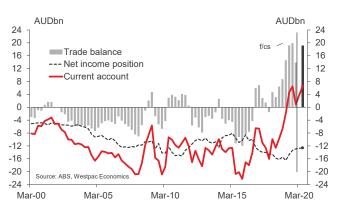


#### Aus Q1 current account, AUDbn

Jun 2, Last: 1.0, WBC f/c: 6.5 Mkt f/c: 6.2, Range: 5.0 to 7.5

- Australia's current account looks set to be in surplus for a fourth consecutive quarter.
- In the December quarter, the surplus printed at \$1.0bn, a trade surplus of \$13.9bn and a net income deficit of \$12.9bn.
- In the March quarter, the current account surplus widened to an estimated \$6.5bn on an improved trade performance.
- The trade surplus rose to \$19.1bn in the quarter, up from a revised \$13.5bn.
   This includes the boost from a higher terms of trade, up by around 2.5% we estimate.
- The net income deficit is a potential wildcard. We anticipate a consolidation, at \$12.6bn. However, large swings on global markets, as well as the potential for revisions, could throw up some surprises.

#### Aus current account

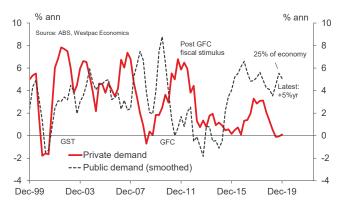


#### Aus Q1 public demand

#### Jun 2, Last: 0.1%, WBC f/c: 0.6%

- Public sector spending, in the form of public demand (directly accounting for a quarter of the economy) has been expanding at a brisk pace. It is a key growth driver and a key generator of jobs.
- Public demand grew by 5% in 2019, directly adding 1.2ppts to activity (which, along with net exports, +1.1ppts yr, more than fully accounted for total output growth, of 2.2%yr).
- The focus is on health care (the introduction of the NDIS and the pharmaceutical benefit scheme) and on investment (including transport infrastructure and the NBN roll-out).
- For Q1, we expect a rise of 0.6%. Investment, often volatile quarter to quarter, is forecast to be flat (on a dip in construction work) - but with upside risks.
- In upcoming quarters, spending on health will rise further, in response to the pandemic.

#### Aus public and private demand

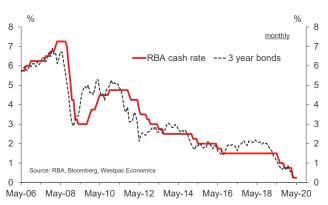


#### Aus Jun RBA policy decision

Jun 2, Last: 0.25%, WBC f/c: 0.25% Mkt f/c: 0.25%, Range: 0.25% to 0.25%

- The RBA cut the cash rate by 25bps at its March meeting and by another 25bps to 0.25% at an emergency inter-meeting move on March 19 that also saw the deployment of a range of QE measures including policies aimed at lowering key market rates (3yr bonds) and providing low cost term funding for banks. The RBA has also moved to provide large liquidity injections to stabilise increasingly dislocated financial markets.
- With the RBA continuing to rule out negative rates, the cash rate is set to remain at its current level for a very long time - we assess until at least the end of 2023 although the 3yr bond target rate will likely be lifted during 2022.

#### Aus RBA cash rate



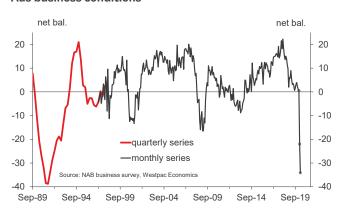
#### **Aus Q1 GDP**

Jun 3, Last: 0.5%qtr, 2.2%yr, WBC f/c: -0.7%qtr, 1.0%yr Mkt f/c: -0.4%qtr, 1.4%yr

Range: -0.8%qtr, 1.0%yr to 0.2%qtr, 1.9%yr

- The opening quarter of 2020 was a tumultuous one, with the outbreak of the COVID pandemic. Social distancing guidelines (escalated from mid-March) and travel restrictions have disrupted activity.
- Business surveys reported a sharp drop in conditions in March, to -22 from +1, and ABS data reported employment fell by over 4% over the second half of March.
- For Q1, we are forecasting output to contract by 0.7%, moderating annual growth to 1.0% from 2.2%.
- The arithmetic is: domestic demand -0.2%; total inventories -0.7ppts; net exports +0.5ppts and stat. discrepancy -0.3ppts. Around demand: consumer spending -0.4%; housing -0.6%; business investment -0.5%; and public +0.6%.

#### Aus business conditions

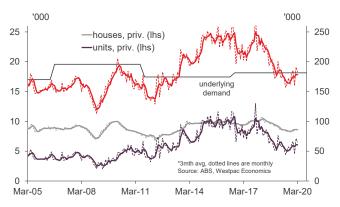


#### Aus Apr dwelling approvals

Jun 3, Last: -4%, WBC f/c: -15.0% Mkt f/c: -10.8%, Range: -20.0% to -6.1%

- Dwelling approvals held up much better than expected in March considering the previous month had seen a 20% jump driven by a spike in high rise. The detail showed high rise approvals held up (still 40-50% above their Jan level). Other components were softer but the COVID-19 outbreak had no major impact.
- That will not be the case in April. The lockdown combined with a belated unwind of the February-March high rise jump could see an extremely sharp fall. We have pencilled in a 15% drop partly on the basis that many councils may still have been processing applications from prior months in April and that the wider construction sector remained open through the shut down. However, there is some downside risk to this number.

#### Aus dwelling approvals

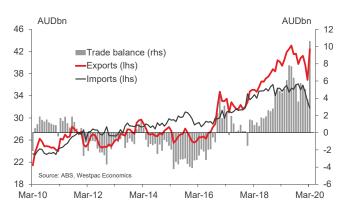


#### Aus Apr trade balance, AUDbn

Jun 4, Last: 10.6, WBC f/c: 7.5 Mkt f/c: 7.5, Range: 4.0 to 8.0

- Australia's international trade account is in surplus, with the month to month figure impacted by the pandemic.
- In March, the surplus spiked to a record high of \$10.6bn. Exports jumped 15%, up \$5.6bn, rebounding from disruptions - including from Cyclone Damien.
- For April, the trade surplus is expected to moderate, easing to a still relatively high \$7.5bn.
- Goods exports eased back, down by around 7½%, including an unwinding
  of a spike in gold shipments. That still leaves goods exports at a relatively
  high level.
- Imports look to be a little lower in the month of softer demand continuing a trend evident in the year to date.
- Service exports and imports will both be sharply lower in the month as international travel comes to a halt.

#### Aus trade balance

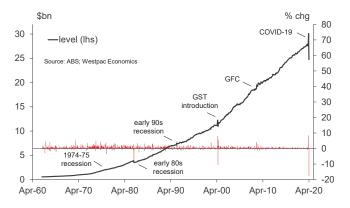


#### Aus Apr retail trade

Jun 4, Last: 8.5%, WBC f/c: -18.0% Mkt f/c: -17.9%, Range: -18.0% to 5.4%

- The ABS has moved to releasing preliminary retail sales estimates as part of an effort to provide more timely information on the impacts of the Coronavirus. For April, these showed a dramatic 17.9% plunge. While the result was exacerbated by an 8.5% surge in March as people stockpiled ahead of the shutdown, the April fall is extreme nonetheless, taking sales 10.9% below their Feb level, the available detail suggesting retail ex basic food was over 20% below its Feb level.
- The preliminary figures are based on returns covering 80% of the sector.
   They are subject to revision, but proved fairly accurate in February and March, and there is little reason to expect a material change to the April estimate. The full release will include all the granular storetype, state and channel detail.

#### Aus monthly retail sales

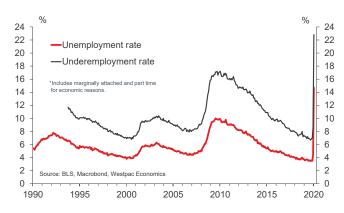


#### May US employment report

Jun 5, nonfarm payrolls: last: -20537k, WBC: -7500k Jun 5, unemployment rate: last: 14.7%, WBC: 20.0%

- The Apr employment report saw the largest ever decline in employment in the US, with over 20 million jobs disappearing. Many more reported being employed but at home, or on materially reduced hours.
- As a result, the unemployment rate surged 10ppts to 14.7%, while underemployment increased by an even more dramatic 14ppts to almost 23%.
- Come May, job loss has been less severe, but will take both unemployment and underemployment to new never before seen levels.
- As was the case in Apr, participation and classification issues will be at play. There is therefore a greater than usual amount of risk around these outcomes.

#### US labour market

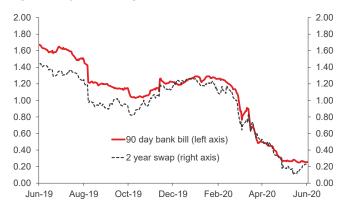


## New Zealand forecasts.

Economic forecasts		Quar	terly		Annual			
	2019	2020						
% change	Dec (a)	Mar	Jun	Sep	2018	2019	2020f	2021f
GDP (Production)	0.5	-1.0	-17.0	14.5	3.2	2.3	-6.3	6.5
Employment	0.1	0.7	-9.4	3.1	1.9	0.8	-4.2	3.4
Unemployment Rate % s.a.	4.0	4.2	9.5	8.5	4.3	4.0	7.5	6.3
СРІ	0.5	0.8	-0.4	0.8	1.9	1.9	1.1	0.9
Current Account Balance % of GDP	-3.0	-2.6	-2.3	-1.9	-3.8	-3.0	-2.0	-2.7

Financial forecasts	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21
Cash	0.25	0.25	0.25	0.25	-0.50	-0.50
90 Day bill	0.25	0.25	0.20	-0.10	-0.20	-0.20
2 Year Swap	0.10	0.05	0.00	-0.10	-0.10	-0.10
5 Year Swap	0.20	0.20	0.20	0.20	0.25	0.30
10 Year Bond	0.60	0.55	0.55	0.55	0.60	0.70
NZD/USD	0.59	0.60	0.61	0.62	0.62	0.63
NZD/AUD	0.92	0.91	0.90	0.89	0.89	0.89
NZD/JPY	63.1	63.0	64.7	66.3	66.3	68.0
NZD/EUR	0.55	0.57	0.58	0.58	0.57	0.58
NZD/GBP	0.48	0.49	0.49	0.50	0.50	0.50
TWI	67.1	67.3	67.8	68.2	67.8	68.4

#### 2 year swap and 90 day bank bills



#### NZ interest rates as at market open on 2 June 2020

Interest rates	Current	Two weeks ago	One month ago
Cash	0.25%	0.25%	0.25%
30 Days	0.27%	0.27%	0.27%
60 Days	0.26%	0.27%	0.27%
90 Days	0.26%	0.28%	0.26%
2 Year Swap	0.23%	0.13%	0.20%
5 Year Swap	0.35%	0.21%	0.33%

#### NZD/USD and NZD/AUD



#### NZ foreign currency mid-rates as at 2 June 2020

Exchange rates	Current	Two weeks ago	One month ago
NZD/USD	0.6295	0.5933	0.6058
NZD/EUR	0.5655	0.5486	0.5521
NZD/GBP	0.5039	0.4911	0.4850
NZD/JPY	67.73	63.50	64.72
NZD/AUD	0.9262	0.9248	0.9446
TWI	70.51	67.56	68.68

## Data calendar.

		Last	Market median	Westpac forecast	Risk/Comment
Tue 02					
NZ	Apr building permits	-21.3%	-	-60.0%	Lockdown and nervousness will be a drag.
	Q1 terms of trade	2.6%	-	-1.0%	Small decline from last year's all-time high.
Aus	Q1 company profits	-3.5%	0.5%	flat	Mining up, non-mining down. See textbox for details.
	Q1 inventories	0.3%	-0.6%	-2.0%	Sharp run-down - hoarding of groceries, import slump.
	Q1 net exports, ppts	0.1	0.3	0.5	Import volumes fall faster than exports.
	Q1 current account balance, \$bn	1.0	6.2	6.5	Current account improves on larger trade surplus.
	Q1 public demand	0.1%	-	0.6%	Advance further. Investment forecast flat - upside risk.
	RBA policy decision	0.25%	0.25%	0.25%	Rates to be held at record low.
Eur	May Markit manufacturing PMIs	_	-	-	For Germany and the Euro Area.
UK	Apr net mortgage lending £bn	4.8	1.4	-	Will decline as the housing market softens.
Wed 03					
NZ	GlobalDairyTrade auction	1.0%	-	_	Dairy prices may be stabilising as economies reopen.
Aus	Q1 GDP	0.5%	-0.4%	-0.7%	Risk that output fell as shut-downs impacted during March.
	Apr dwelling approvals	-4.0%	-10.8%	-15.0%	COVID-19 disruptions to show a more meaningful hit.
	May AiG PCI	21.6	-	-	Construction -16.3pts, led by apartments & commercial.
	RBA Asst. Governor Bullock	_	_	_	To speak on the evolution of banking & payments.
Eur	Apr PPI	-1.5%	-1.5%	-	Expected to drag annual PPI to -4.0%yr.
	Apr unemployment rate	7.4%	8.1%	-	April will see an upward turn in the U/E trend.
US	May ADP employment change	-20236k	-9500k	-8000k	Initial claims showed job loss continued at pace in May.
	Apr factory orders	-10.3%	-15.0%	-	Both orders and investment are set to crater in April
	Apr durable goods orders	-	-	-	led by weakness in transportation.
	May ISM non-manufacturing	41.8	44.0	-	April saw a record monthly fall, but remains above GFC low.
Thu 04					
NZ	May ANZ commodity prices	-1.1%	-	-	Further falls in meat and dairy prices.
Aus	Apr trade balance, \$bn	10.6	7.5	7.5	Surplus to ease from record high.
	Apr retail sales	8.5%	-17.9%	-18.0%	Preliminarily estimate showed extraordinary fall on virus hit.
Eur	May Markit services PMIs	-	-	-	For the Euro Area and Germany (final).
	Apr retail sales	-11.2%	-18.0%	-	Collapse in March will be compounded by April release.
	ECB policy decision	-0.5%	-0.5%	-	Interest will be around an expansion of the PEPP.
US	Apr trade balance US\$bn	-44.4	-41.5	-	Underlying volatility from collapse in exports and imports.
	Q1 productivity	-2.5%	-2.5%	-	Fall in productivity reflects labour market deterioration.
	Initial jobless claims	2123k	-	-	Fall in continuing claims suggests peak U/E passing.
Fri 05					
Aus	May AiG PSI	27.1	_	_	Services -11.6pts, record low. Up in May as economy reopens?
UK	May GfK consumer sentiment	-34	_	-	Final; prelim particularly negative on the 12mth outlook.
US	May non-farm payrolls	-20537k	-8000k	-7500k	Job loss has continued at pace, but participation
	May unemployment rate	14.7%	19.5%	20.0%	as significant for U/E as jobs.
	May average hourly earnings %mth	4.7%	1.0%	-	To be hit by rising job loss and spare capacity.
	Apr consumer credit	-12.044	-15.000	-	Lockdown has caused credit card debt to plummet.

# International forecasts.

Economic forecasts (Calendar years)	2016	2017	2018	2019	2020f	2021f
Australia						
Real GDP % yr	2.8	2.5	2.7	1.8	-5.4	4.0
CPI inflation % annual	1.5	1.9	1.8	1.8	0.3	2.4
Unemployment %	5.7	5.5	5.0	5.2	7.6	6.3
Current Account % GDP	-3.1	-2.6	-2.1	0.5	0.5	-0.8
United States						
Real GDP %yr	1.6	2.4	2.9	2.3	-6.0	1.1
Consumer Prices %yr	1.4	2.1	2.4	1.8	1.4	1.6
Unemployment Rate %	4.9	4.4	3.8	3.7	18.0	8.2
Current Account %GDP	-2.3	-2.3	-2.3	-2.6	-2.5	-2.4
Japan						
Real GDP %yr	0.5	2.2	0.3	0.7	-5.0	1.0
Euro zone						
Real GDP %yr	1.9	2.5	1.9	1.2	-8.5	1.7
United Kingdom						
Real GDP %yr	1.9	1.9	1.3	1.4	-7.0	2.5
China						
Real GDP %yr	6.8	6.9	6.8	6.1	0.1	10.0
East Asia ex China						
Real GDP %yr	4.1	4.6	4.4	3.7	-2.6	5.8
World						
Real GDP %yr	3.4	3.9	3.6	2.8	-3.0	4.8
Forecasts finalised 8 May 2020						

Interest rate forecasts	Latest	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21
Australia								
Cash	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
90 Day BBSW	0.10	0.10	0.10	0.15	0.20	0.25	0.30	0.35
10 Year Bond	0.88	0.85	0.90	0.95	1.00	1.10	1.20	1.30
International								
Fed Funds	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
US 10 Year Bond	0.67	0.60	0.65	0.70	0.75	0.80	0.90	1.00

Exchange rate forecasts	Latest	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21
AUD/USD	0.6643	0.64	0.66	0.68	0.70	0.70	0.71	0.72
USD/JPY	107.41	107	105	106	107	107	108	110
EUR/USD	1.1088	1.08	1.09	1.10	1.11	1.11	1.12	1.12
GBP/USD	1.2329	1.22	1.23	1.24	1.25	1.26	1.29	1.30
USD/CNY	7.1484	7.02	6.90	6.85	6.80	6.75	6.70	6.60
AUD/NZD	1.0707	1.08	1.10	1.11	1.13	1.13	1.13	1.13

## Contact the Westpac economics team.

Dominick Stephens, Chief Economist

+64 9 336 5671

Michael Gordon, Senior Economist

+64 9 336 5670

Satish Ranchhod, Senior Economist

+64 9 336 5668

Paul Clark, Industry Economist

+64 9 336 5656

Any questions email:

economics@westpac.co.nz

Past performance is not a reliable indicator of future performance. The forecasts given in this document are predictive in character. Whilst every effort has been taken to ensure that the assumptions on which the forecasts are based are reasonable, the forecasts may be affected by incorrect assumptions or by known or unknown risks and uncertainties. The ultimate outcomes may differ substantially from these forecasts.

## Disclaimer.

#### Things you should know

Westpac Institutional Bank is a division of Westpac Banking Corporation ABN 33 007 457 141

Disclaimer

This material contains general commentary, and market colour. The material does not constitute investment advice. Certain types of transactions, including those involving futures, options and high yield securities give rise to substantial risk and are not suitable for all investors. We recommend that you seek your own independent legal or financial advice before proceeding with any investment decision. This information has been prepared without taking account of your objectives, financial situation or needs. This material may contain material provided by third parties. While such material is published with the necessary permission none of Westpac or its related entities accepts any responsibility for the accuracy or completeness of any such material. Although we have made every effort to ensure the information is free from error, none of Westpac or its related entities warrants the accuracy, adequacy or completeness of the information, or otherwise endorses it in any way. Except where contrary to law, Westpac and its related entities intend by this notice to exclude liability for the information. The information is subject to change without notice and none of Westpac or its related entities is under any obligation to update the information notice and none of Westpac or its related entities is under any obligation to update the information or correct any inaccuracy which may become apparent at a later date. The information contained in this material does not constitute an offer, a solicitation of an offer, or an inducement to subscribe for, purchase or sell any financial instrument or enter a legally binding contract. Past performance is not a reliable indicator of future performance. Whilst every effort has been taken to ensure that the assumptions on which the forecasts are based are reasonable, the forecasts may be affected by incorrect assumptions or by known or unknown risks and uncertainties. The ultimate outcomes may differ substantially from these forecasts. and uncertainties. The ultimate outcomes may differ substantially from these forecasts.

**Australia:** Westpac holds an Australian Financial Services Licence (No. 233714). This material is provided to you solely for your own use and in your capacity as a wholesale client of Westpac.

New Zealand: In New Zealand, Westpac Institutional Bank refers to the brand under which products New Zealand: In New Zealand, Westpac Institutional Bank refers to the brand under which products and services are provided by either Westpac or Westpac New Zealand Limited ("WNZL"). Any product or service made available by WNZL does not represent an offer from Westpac or any of its subsidiaries (other than WNZL). Neither Westpac nor its other subsidiaries guarantee or otherwise support the performance of WNZL in respect of any such product. The current disclosure statements for the New Zealand branch of Westpac and WNZL can be obtained at the internet address www.westpac. co.nz. For further information please refer to the Product Disclosure Statement (available from your Relationship Manager) for any product for which a Product Disclosure Statement is required, or applicable customer agreement. Download the Westpac NZ QFE Group Financial Advisers Act 2008 Pisclosure Statement at www.westpac. Disclosure Statement at www.westpac.co.nz.

China, Hong Kong, Singapore and India: This material has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (as defined in the China, Hong Kong, Singapore and India: This material has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (as defined in the applicable Singapore laws and regulations) only. Recipients in Singapore of this material should contact Westpac Singapore Branch in respect of any matters arising from, or in connection with, this material. Westpac Singapore Branch holds a wholesale banking licence and is subject to supervision by the Monetary Authority of Singapore. Westpac Hong Rong Branch holds a banking license and is subject to supervision by the Hong Kong Monetary Authority. Westpac Hong Rong branch also holds a license issued by the Hong Kong Securities and Futures Commission (SFC) for Type 1 and Type 4 regulated activities. This material is intended only to "professional investors" as defined in the Securities and Futures Ordinance and any rules made under that Ordinance. Westpac Shanghai and Beijing Branches hold banking licenses and are subject to supervision by the China Banking and Insurance Regulatory Commission (CBIRC). Westpac Mumbai Branch holds a banking license from Reserve Bank of India (RBI) and subject to regulation and supervision by the RBI.

UK: The contents of this communication, which have been prepared by and are the sole responsibility of Westpac Banking Corporation London and Westpac Europe Limited. Westpac (a) has its principal place of business in the United Kingdom at Camomile Court, 23 Camomile Street, London EC3A 7LL, and is registered at Cardiffi in the UK (as Branch No. BR00106), and (b) authorised and regulated by the Australian Prudential Regulation Authority in Australia. Westpac is authorised in the United Kingdom by the Prudential Regulation Authority. Westpac is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority are available from us on request. Westpac Europe Limited is a company registered in England (number 05660023) and is authorised by the Prudential Regulation Authority and tregulated by the Financial Conduct Authority and the Prudential Regulation Authority.

This communication is being made only to and is directed at (a) persons who have professional experience in matters relating to investments who fall within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order") or (b) high net worth entities, and other persons to whom it may otherwise lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as "relevant persons"). Any person who is not a relevant persons should not act or rely on this communication or any of its contents. The investments owhich this communication relates are only available to and any invitation, offer or agreement to subscribe, purchase or otherwise acquire such investments will be engaged in only with, relevant persons any person who is not a relevant person should not act or rely upon this communication or any of its contents. In the same way, the information contained in this communication is intended for "eligible counterparties" and "professional clients" as defined by the rules of the Financial Conduct Authority and is not intended for "retail clients". With this in mind, Westpac expressly prohibits you from passing on the information in this communication to any third party. In particular this communication and, in each case, any copies thereof may not be taken, transmitted or distributed,

directly or indirectly into any restricted jurisdiction. This communication is made in compliance with the Market Abuse Regulation (Regulation(EU) 596/2014).

#### Investment Recommendations Disclosure

The material may contain investment recommendations, including information recommending an investment strategy. Reasonable steps have been taken to ensure that the material is presented in a clear, accurate and objective manner. Investment Recommendations for Financial Instruments covered by MAR are made in compliance with Article 20 MAR. Westpac does not apply MAR Investment Recommendation requirements to Spot Foreign Exchange which is out of scope for MAR.

Unless otherwise indicated, there are no planned updates to this Investment Recommendation at the time of publication. Westpac has no obligation to update, modify or amend this Investment Recommendation or to notify the recipients of this Investment Recommendation should any information, including opinion, forecast or estimate set out in this Investment Recommendation change or subsequently become inaccurate.

Westpac will from time to time dispose of and acquire financial instruments of companies covered in this Investment Recommendation as principal and act as a market maker or liquidity provider in such

Westpac does not have any proprietary positions in equity shares of issuers that are the subject of an investment recommendation.

Westpac may have provided investment banking services to the issuer in the course of the past 12

We stpac does not permit any issuer to see or comment on any investment recommendation prior to its completion and distribution.

Individuals who produce investment recommendations are not permitted to undertake any transactions in any financial instruments or derivatives in relation to the issuers covered by the investment recommendations they produce.

Westpac has implemented policies and procedures, which are designed to ensure conflicts of interests are managed consistently and appropriately, and to treat clients fairly.

The following arrangements have been adopted for the avoidance and prevention of conflicts in interests associated with the provision of investment recommendations.

- Chinese Wall/Cell arrangements:
- physical separation of various Business/Support Units;
- and well defined wall/cell crossing procedures;
- a "need to know" policy;
- documented and well defined procedures for dealing with conflicts of interest;
- steps by Compliance to ensure that the Chinese Wall/Cell arrangements remain effective and that such arrangements are adequately monitored.

U.S: Westpac operates in the United States of America as a federally licensed branch, regulated by the Office of the Comptroller of the Currency. Westpac is also registered with the US Commodity Futures Trading Commission ("CFTC") as a Swap Dealer, but is neither registered as, or affiliated with, a Futures Commission Merchant registered with the US CFTC. Westpac Capital Markets, LLC ("WCM"), a Wholly-owned subsidiary of Westpac, is a broker-dealer registered under the U.S. Securities Exchange Act of 1934 ("the Exchange Act and member of the Financial Industry Regulatory Authority ("FINRA"). This communication is provided for distribution to U.S. institutional investors in reliance on the exemption from registration provided by Rule 15a-6 under the Exchange Act and is not subject to all of the independence and disclosure standards applicable to debt research reports prepared for retail investors in the United States. WCM is the U.S. distributor of this communication and accept responsibility for the contents of this communication. All disclaimers set out with respect to Westpac responsibility for the contents of this communication. All disclaimers set out with respect to Westpac apply equally to WCM. If you would like to speak to someone regarding any security mentioned herein, please contact WCM on +1 212 389 1269. All disclaimers set out with respect to Westpac apply equally

Investing in any non-U.S. securities or related financial instruments mentioned in this communication may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the SEC in the United States. Information on such non-U.S. securities or related financial instruments may be limited. Non-U.S. companies may not subject to audit and reporting standards and regulatory requirements comparable to those in effect in the United States. The value of any investment or income from any securities or related derivative instruments denominants a currency other than U.S. dollars is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related derivative instruments.

The author of this communication is employed by Westpac and is not registered or qualified as a research analyst, representative, or associated person under the rules of FINRA, any other U.S. self-regulatory organisation, or the laws, rules or regulations of any State. Unless otherwise specifically stated, the views expressed herein are solely those of the author and may differ from the information, views or analysis expressed by Westpac and/or its affiliates.