

# Weekly Commentary

30 July 2018



---

## Crossroads

---

Over the past week we've seen more evidence that the economy slowed in the first half of the year. Notably, net migration has continued to slow and there are signs that firms are aren't importing capital equipment at the same pace they were earlier in the year. Soft growth in recent months is also likely to mean that after a string of stronger reports, the labour market took a breather in the June quarter.

Last week we had further confirmation that the economy shifted down a gear in the first half of the year. One thing we have been expecting was a lull in business investment on the back of policy uncertainty and weak business confidence over recent months. This view was supported by recent surveys where businesses reported that they intended to invest less over the coming months. However, until last week, we had little hard evidence of an actual decline in investment. June merchandise trade data may be one of the first signs. The pace of capital equipment imports slowed in June, consistent with our forecasts of a temporary lull in business investment in the second half of the year. We expect to capital equipment imports slide further in the coming months.

Another key element of the slowdown is lower net migration. June net migration data was again consistent with this view. Monthly net migration slowed further, taking annual net migration to its lowest point since November 2015. While this is still a historically high level, annual net migration has fallen from a peak of 72,500 to just below 65,000 now.

Much of the recent easing in net migration has been driven by changing trans-Tasman flows. The relative attractiveness of the Australian labour market has improved on the back of strong employment growth and a falling unemployment rate. We expect the relative attractiveness of labour market conditions to continue to move in Australia's favour over

the coming years. This is likely to lead to a growing number of New Zealanders once again heading to Australia to seek their fortunes across the ditch.

That said, local labour market conditions are currently uncertain. Presently, labour market conditions are very firm with the unemployment rate at a 9 year low and widespread angst amongst firms about the difficulty of finding workers. However, we expect the slowdown in broader economic conditions to ultimately impact on demand for labour – albeit with a lag. These competing tensions are likely to be evident in the suite of labour market data for the June quarter released this week.

On balance we expect the unemployment rate to hold steady at 4.4%. While labour market data can be notoriously choppy from quarter to quarter, the unemployment rate tends to be the most reliable measure of what's truly going on. What's more, some of the detail in next week's release could be a little surprising for financial markets. Most notably we're forecasting negative employment growth for the quarter. Much of this reflects our allowance for a distorted seasonal pattern in the survey rather than a genuine difference of opinion with other forecasters expecting positive employment growth. Nevertheless, such a seemingly weak result would likely generate some commentary and a reaction in financial markets. We emphasise focusing on the unemployment rate as the most reliable measure.

# Crossroads... continued

With inflation firmly back on the radar for both markets and the Reserve Bank in recent weeks, there will also be interest in how the various wage measures are evolving. To date there has been little evidence that the tightening labour market has led to a pickup in wage pressures. And our forecasts assume that this remains the case in the June quarter. Although we expect a 0.5% quarterly lift in the Labour Cost Index (LCI) (an step up from the string of 0.4% increases) the lift is mostly due to this year's larger than usual minimum wage hike and last year's aged care workers' pay equity settlement. The LCI tends to evolve very slowly, so any deviation from our forecast – in either direction – would be noteworthy. Importantly, we don't expect wage pressure will be contained indefinitely. Rising inflation expectations combined with a low unemployment rate and policy changes that have swung the dial in favour of employees in wage negotiations should see wage inflation eventually start to drift higher next year.

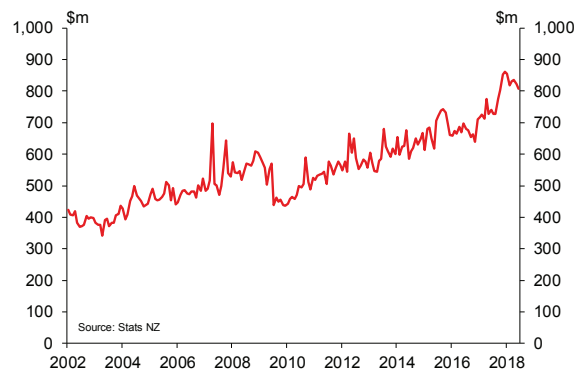
With the Reserve Bank's dual employment and inflation mandate now firmly in place, next week's labour market data will also form an important part of the deliberations ahead of the Monetary Policy Statement released on the 9th of August.

For the record, we think it's extremely unlikely that any surprises in the labour market data will be enough to shift the Bank from its on hold "for some time to come" stance.

While inflation pressures are rising, most notably with non-tradable inflation printing above the RBNZ's forecasts in Q2, and measures of core inflation edging higher, rising inflation pressures are being largely offset by slower growth. GDP grew 0.4% in the March quarter, well short of the RBNZ's 0.7% forecast while their 0.8% forecast for Q2 also looks too optimistic to us.

Given these broadly offsetting developments, the RBNZ is unlikely to be hurried into action any time soon. We maintain our view that it will be the final quarter of 2019 before the RBNZ raises the OCR.

## Monthly imports of capital equipment

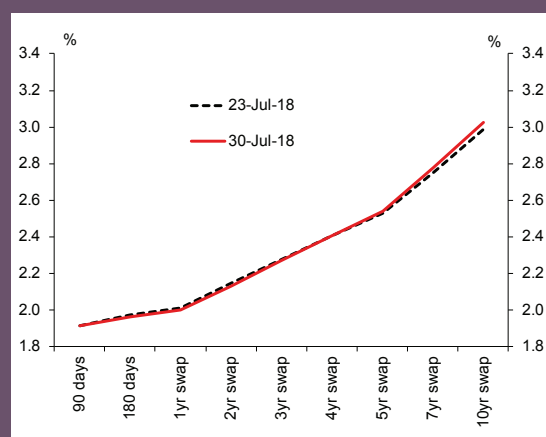


## Fixed vs Floating for mortgages

Floating mortgage rates usually work out to be more expensive for borrowers than fixed rates. However, floating may still be the preferred option for those who require flexibility in their repayments.

We expect floating and short-term fixed mortgage rates to rise gradually over the coming few years, meaning that taking a fixed rate may prove worthwhile. One-year fixed rates are usually the lowest on offer, and appear to offer good value for borrowers. Longer-term fixed rates are high relative to where we think one-year fixed rates are going to go. However, longer-term rates offer security against the possibility of mortgage rates rising more rapidly than expected in the future.

## NZ interest rates



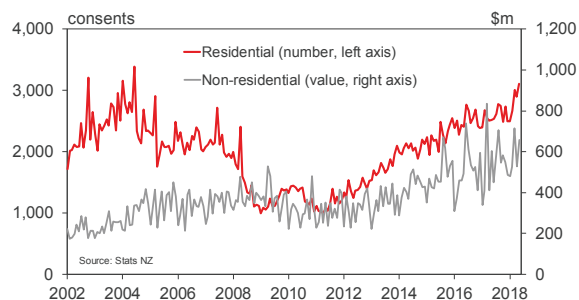
# The week ahead

## NZ Jun residential building consents

Jul 31, Last: +7.1%, WBC f/c: -12%

- Residential consent issuance surged higher in May, rising by 7.1%. That took consent numbers to their highest level since 2004. In part, this pickup was due to some 'lumpy' changes, including a roughly 25% increase in the usually stable standalone homes category in Auckland last month. More importantly, there has been a sizeable trend increase in medium density consents in Auckland, supported by regulatory changes.
- Consent numbers in most other regions remain firm, though issuance in Canterbury is gradually easing back.
- With some 'lumpy' issuance in recent months, we expect to see a sizeable pullback in overall consent numbers in June. However, the level of issuance is still expected to remain elevated, supported by continued high numbers of consents for medium density homes in Auckland.

## NZ building consents

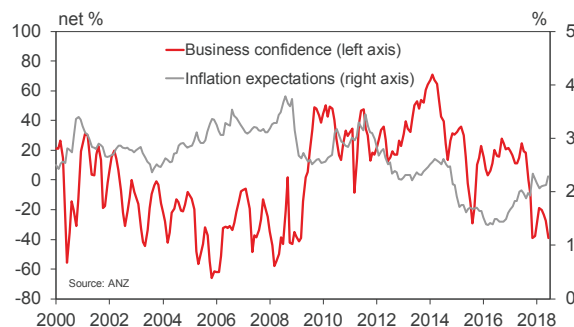


## NZ Jun ANZ business confidence

Jul 31, Last: -39

- Business confidence weakened further in June and firms' expectations of their own activity fell to its lowest level since November 2017.
- The fall in business confidence was relatively widespread. However, there was some improvement in confidence in the agricultural sector in June following the Government's announcement of its intention to attempt eradication of *Mycoplasma bovis* and a strong opening payout forecast from Fonterra. Since then dairy prices have fallen sharply which may dent confidence.
- Inflation expectations edged higher in June and could go further in the coming months on the back of rising petrol prices and higher headline inflation.

## NZ business confidence and inflation expectations



## NZ Q2 Household Labour Force Survey

Aug 1 Employment, Last: +0.6%, WBC f/c: -0.3%, Mkt f/c: +0.4%

Aug 1 Unemployment Last: 4.5%, WBC f/c: 4.4%, Mkt f/c: 4.4%

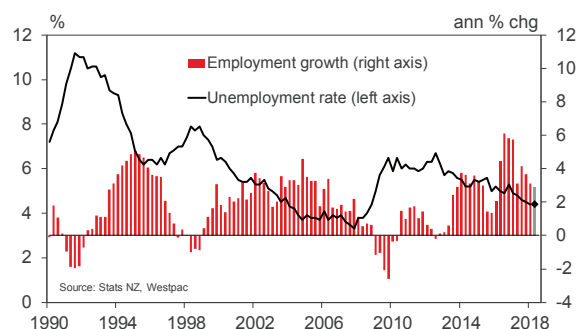
- New Zealand's labour market has tightened over recent years. But slowing economic growth is likely to put a dampener on the pace of improvement.
- We expect the unemployment rate to hold steady at 4.4% in the June quarter, ending a five-quarter run of declines. This is in line with the Reserve Bank's forecast and other market forecasts.
- Where we differ is in our forecast of a drop in employment for the quarter. That largely reflects our allowance for a distorted seasonal pattern in the survey. Nevertheless, such a seemingly weak result would likely generate some reaction in the market. We recommend focusing on the unemployment rate as the most reliable measure of labour market trends.

## NZ Q2 Labour Cost Index

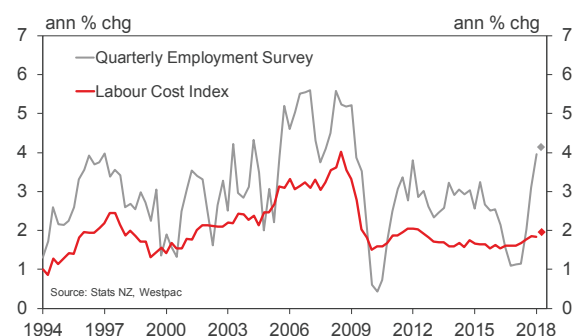
Aug 1, Private sector Last: 0.4%, WBC f/c: 0.5%, Mkt f/c: 0.6%

- The Labour Cost Index is a very slow-moving measure of wage growth. Recent years have seen a string of 0.4% quarterly gains, aside from the aged-care workers' pay equity settlement in Q3 last year.
- We expect a slightly larger 0.5% increase for the June quarter. The main factor is the 4.8% minimum wage hike this year, compared to average increases of 3.4% in the last few years. That aside, we don't expect to see widespread evidence of a pickup in wage growth yet.
- In contrast, the Quarterly Employment Survey (QES) measure of average hourly earnings has accelerated in the last year, and we expect a further pickup this time. But this measure slowed sharply a year ago, and it's not clear whether this rebound will be sustained.

## Household Labour Force Survey



## LCI and QES wages



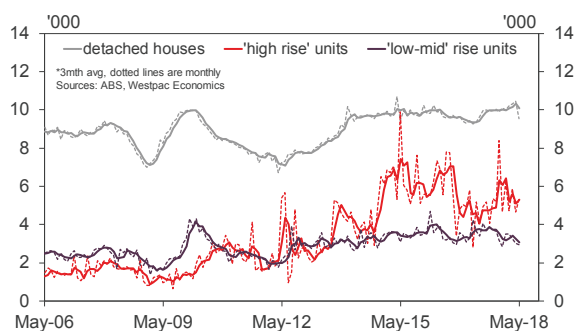
# The week ahead

## Aus Jun dwelling approvals

Jul 31, Last: -3.2%, WBC f/c: flat, Mkt f/c: 1.0%

- Dwelling approvals fell 3.2% in May with a surprisingly sharp 8.6% fall in private detached houses partially offset by a 4.3% rise in units. With some wild swings in some of the state detail, we advise caution in interpreting the latest figures. In particular, a sharp fall in Qld may prove to be noise or a temporary pull-back. More generally, key parts of Westpac's forecast for a further weakening in high rise construction have yet to come through.
- The June update should resolve some of these questions. While the May drop looks overdone, construction-related housing finance approvals continue to point to a clear downtrend in non-high rise approvals. Meanwhile site purchases have for some time been pointing to a further sharp leg lower for high rise approvals. On balance we expect total approvals to hold flat in June even with some give back on the May weakness in houses.

### Dwelling approvals: houses, low-mid & high rise

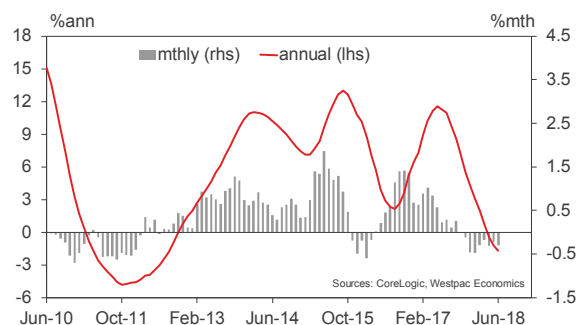


## Aus Jul CoreLogic home value index

Aug 1, Last: -0.3%, WBC f/c: -0.5%

- Australia's housing market continues to correct. Prices dipped 0.3% in June marking the ninth successive monthly decline. Prices nationally are down 2.2% from their Sep peak.
- The correction remains both relatively shallow and narrowly-based, concentrated in the previously strong Sydney and Melbourne markets. These two markets have now seen no net gain in prices since late 2016 and mid-2017 respectively. The Perth market remains stuck in its long running correction as well.
- The daily index suggests price slippage quickened again in July with a 0.5% decline that will mean prices are down -2.5%yr nationally. Auction clearance rates weakened notably through May-June-July, pointing to an additional drag from tightening loan criteria and longer approval processing times.

### Australian dwelling prices

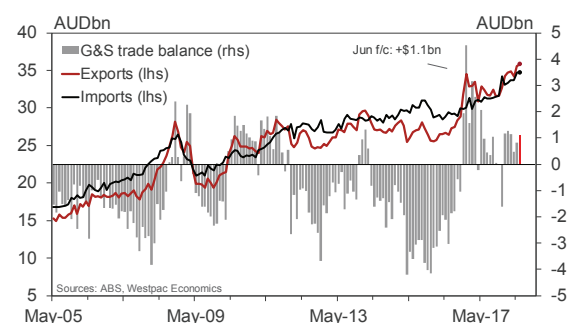


## Aus Jun trade balance, AUDbn

Aug 2, Last: 0.8, WBC f/c: 1.1, Mkt f/c: 0.9

- Australia's monthly trade account has been in surplus so far in 2018. For June, we anticipate another trade surplus, widening a little to \$1.1bn, up from \$0.8bn in May.
- The import bill is expected to be broadly unchanged, with a lift in volumes potentially offset by a modest pull-back in fuel prices (following sharp rises of late).
- Export earnings are expected to expand by 0.8%, \$0.3bn, boosted by a lift in coal volumes and higher coal prices. Fuels (including LNG) and metal ores (including iron ore) are expected to be little changed with modest gains in volumes offset by lower prices.

### Australia's trade balance

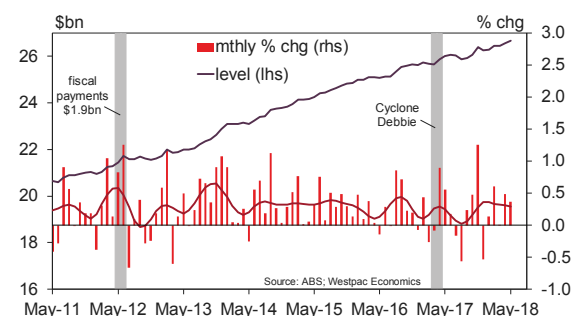


## Aus Jun retail trade

Aug 3, Last: 0.4%, WBC f/c: 0.3%, Mkt f/c: 0.3%

- Retailers reported a slightly better than expected, though still modest, 0.4% lift in sales in May. A rebound in clothing and department stores drove the gain with weak conditions across other categories. Some of the rebound is likely weather-related after abnormally warm conditions weighed on clothing sales in the early part of winter.
- Indicators suggest retailers continued to see mixed conditions in June. Consumer sentiment lifted following the tax cuts announced in the May Budget but key spending-related components remained soft. Private business surveys were mixed, retail responses to the NAB survey softening but the AiG survey showing an improvement. On balance, we expect May to show a 0.3% gain.

### Monthly retail sales



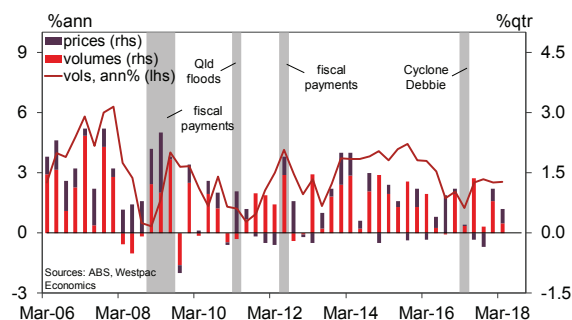
# The week ahead

## Aus Q2 real retail sales

Aug 3, Last: 0.2%, WBC f/c: 0.8%, Mkt f/c: 0.8%

- Q1 was a weak quarter for consumers with real retail sales rising just 0.2%. The main surprise was around retail prices which rose 0.4%, accounting for most of the nominal gain in sales over the quarter. The price lift was mainly driven by food with price deflation continuing across non food categories.
- The disappointing Q1 result follows a choppy run, the previous four quarters showing gains of 0.2%, 1.4%, 0.2% and 0.8%. Some of this may be due to shifts in the timing of sales, particularly around the Christmas-New Year period.
- The Q2 update is likely to show a rebound. Nominal sales are on track to be up 1.0% vs 0.6% in Q1. The Q2 CPI detail suggests retail prices rose about 0.2% in the quarter – this time with weakness in food offsetting firmer non-food prices. While uncertain, the mix points to a 0.8% rise in real sales.

## Quarterly retail volumes and prices

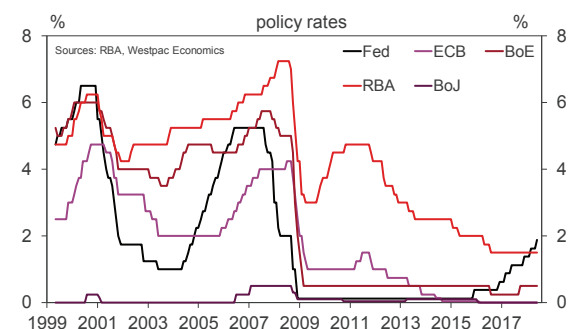


## US FOMC Aug policy meeting

Aug 1, Last: 1.875%, WBC f/c: 1.875%

- The recent run of data has been with confidence and the FOMC. While they are very unlikely to upset the apple cart by accelerating the pace of fed fund rate hikes, the view put forward for the economy after the Aug 1 meeting will be very constructive.
- Evident in recent communications has been strong confidence in the labour market and hence household consumption. Meanwhile in the business sector, though recent trade tensions have fostered risks, broadly the Committee continues to believe that investment will add to growth through this year and next.
- Also apparent is that Chair Powell and the rest of the FOMC are not (yet) concerned about what the yield curve may be signalling, or financial conditions more broadly. The latter will bite, but not until mid-2019 after four more hikes.

## FOMC to continue going it alone

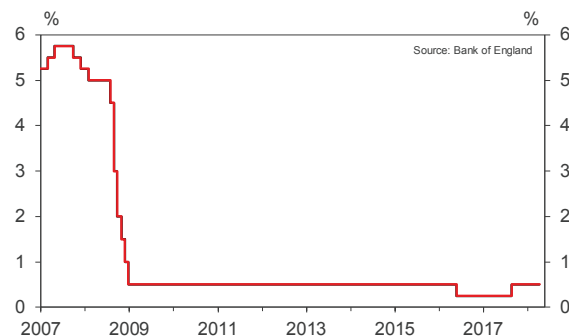


## UK Bank of England Bank Rate

Aug 2, Last: 0.5%, WBC f/c: 0.5%, Mkt f/c: 0.75%

- The Bank of England's August decision is looking finely balanced. The BOE has previously signalled a gradual modest tightening will be required over the next few years. And since their previous decision, we've seen the unemployment rate remain low and a number of indicators have pointed to a firming in growth through the middle part of the year.
- However, the pace of growth remains muted. In addition, inflation has been easing back, with the core rate now down to 1.9%. On top of those factors, the political backdrop remains rocky, with Brexit casting a long shadow over the economy's longer-term outlook.
- Given the lingering downside risks, we expect that the Bank of England will keep the Bank Rate on hold at its August meeting, and that they will maintain a gradual tightening bias.

## Bank of England Bank Rate



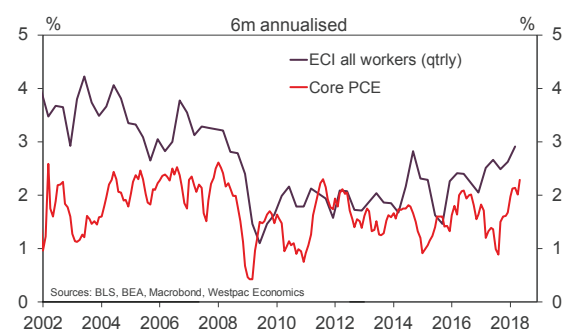
## US Jul employment report

Aug 3 Employment change, Last: 213k, WBC f/c: 180k

Aug 3 Unemployment rate, Last: 4.0%, WBC f/c: 3.9%

- The US labour market has continued to exceed expectations in 2018. Employment growth continues to run well ahead of the pace needed to hold the unemployment rate constant. And, as a result, all measures of labour market slack have continued to move lower, past historically low levels.
- Come July, we look for another strong result, albeit a little more modest than those seen of late. A 180k gain would still see the average pace of 2018-to-date remain above that of 2017, and would further build the case for stronger wage gains.
- On that point, it is worth noting that the June data for personal income and the employment cost index on 31 July will precede the July employment report. Both are worthy of close attention.

## US jobs growth to support wages and inflation



# Data calendar

		Last	Market median	Westpac forecast	Risk/Comment
<b>Mon 30</b>					
<b>Eur</b>	Jul economic confidence	112.3	112.1	-	Held up by strength in domestic demand.
	Jul business climate indicator	1.39	-	-	External sector to remain a risk.
<b>UK</b>	Jul Nationwide house prices	0.5%	-	-	Due this week. Weakness in London weighing on price growth.
	Jun net mortgage lending, £b	3.9	-	-	Credit growth remains muted.
<b>US</b>	Jun pending home sales	-0.5%	0.4%	-	Softer of late, primarily on lack of supply.
	Jul Dallas Fed index	36.5	31.0	-	Very strong.
<b>Tue 31</b>					
<b>NZ</b>	Jun building consents	7.1%	-	-12.0%	Reversal of lumpiness. Trend firm, esp. in Auckland.
	Jul ANZ business confidence	-39	-	-	Confidence has been weak & inflation pressures emerging.
<b>Aus</b>	Jun dwelling approvals	-3.2%	1.0%	flat	Data quirks exacerbated May fall but trends still weak.
	Jun private sector credit	0.2%	0.3%	0.3%	A trend slowdown as housing sector cools.
<b>Chn</b>	Jul non-manufacturing PMI	55.0	55.0	-	Has improved in recent months...
	Jul manufacturing PMI	51.5	51.3	-	... despite softening of external demand.
<b>Eur</b>	Jun unemployment rate	8.4%	8.3%	-	Continues to edge lower.
	Jul CPI core %yr	0.9%	1.0%	-	A long way from target.
	Q2 GDP advance	0.4%	0.5%	0.5%	First release, no detail.
<b>UK</b>	Jul GfK consumer confidence	-9	-	-	Political uncertainty, World Cup loss weighing on sentiment.
<b>US</b>	Q2 employment cost index	0.8%	-	0.7%	Will be closely watched for evidence of acceleration.
	Jun personal income	0.4%	0.4%	0.4%	Real income growth has remained soft...
	Jun personal spending	0.2%	0.4%	0.5%	... acting as a headwind for spending...
	Jun core PCE deflator	2.0%	2.0%	2.0%	... and limiting demand-driven inflation pressures.
	Jul Chicago PMI	64.1	61.8	-	Very positive.
	Jul consumer confidence index	126.4	126.0	-	The labour market remains a key support.
<b>Wed 01</b>					
<b>NZ</b>	Q2 unemployment rate	4.5%	4.4%	4.4%	Slowing economic growth to halt decline in unemployment.
	Q2 employment change	0.6%	0.4%	-0.3%	Seasonal pattern distorted; focus on unemployment rate.
	Q2 Labour Cost Index (private sector)	0.4%	0.6%	0.5%	Uptick in wage growth due to larger minimum wage hike.
<b>Aus</b>	Jul CoreLogic home value index	-0.3%	-	-0.5%	Price correction looks to have quickened in June.
	Jul AiG PMI	57.4	-	-	Manufacturing sector expanding, construction upswing & lower AUD.
<b>US</b>	Jul ADP employment change	177k	180k	170k	Due a softer month, though ADP underperforming payrolls.
	Jun construction spending	0.4%	0.3%	-	Higher rates to weigh?
	Jul ISM manufacturing	60.2	59.2	-	Remains well ahead of Markit measure.
	FOMC policy decision, midpoint	1.875%	1.875%	1.875%	No change for policy. Focus is September.
<b>Thu 02</b>					
<b>Aus</b>	Jun trade balance \$bn	0.8	0.9	1.1	Another surplus, exports +0.8% on higher coal vols & prices.
<b>UK</b>	BoE policy decision	0.50%	0.75%	0.50%	Mkt prices 70% hike chance but inflation easing, risks linger.
<b>US</b>	Initial jobless claims	217k	-	-	Very low.
	Jun factory orders	0.4%	1.7%	-	Transport creating volatility.
<b>Fri 03</b>					
<b>Aus</b>	Jun retail sales	0.4%	0.3%	0.3%	Indicators point to mixed conditions in June month but ...
	Q2 real retail sales	0.2%	0.8%	0.8%	... Q2 wash-up likely to show clear improvement on weak Q1.
	Jul AiG PSI	63.0	-	-	Sharp rise in services index may be overdone - risk of pull-back.
<b>US</b>	Jul non-farm payrolls	213k	190k	180k	Due a softer month, but risks to upside.
	Jul unemployment rate	4.0%	3.9%	3.9%	Likely to reverse Jun rise in Jul.
	Jun trade balance US\$bn	-43.1	-44.6	-	Partial reversal of recent improvement.
	Jul Markit services PMI	54.4	54.4	-	Both services PMIs point...
	Jul ISM non-manufacturing	59.1	58.6	-	... to continued robust momentum.

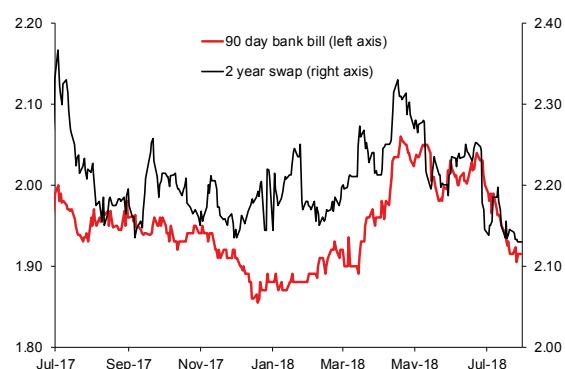
# New Zealand forecasts

Economic Forecasts	Quarterly				Annual			
	2018				Calendar years			
% change	Mar (a)	Jun	Sep	Dec	2016	2017	2018f	2019f
GDP (Production)	0.5	0.7	0.8	0.7	4.0	2.8	2.6	3.2
Employment	0.6	-0.3	0.9	0.3	5.8	3.7	1.4	1.4
Unemployment Rate % s.a.	4.4	4.4	4.5	4.6	5.3	4.5	4.6	4.6
CPI	0.5	0.4	0.7	0.3	1.3	1.6	1.9	1.4
Current Account Balance % of GDP	-2.8	-3.0	-3.2	-3.2	-2.2	-2.7	-3.2	-3.0

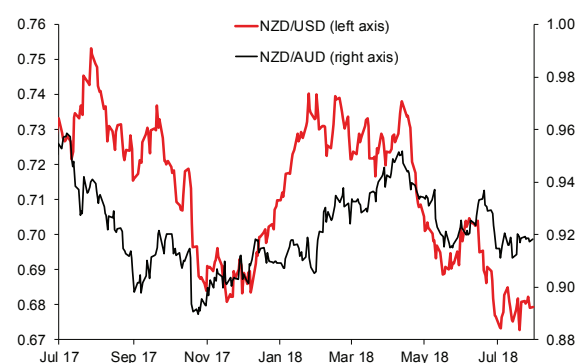
<sup>1</sup> Annual average % change

Financial Forecasts	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
Cash	1.75	1.75	1.75	1.75	1.75	2.00
90 Day bill	2.00	2.00	2.00	2.00	2.10	2.20
2 Year Swap	2.20	2.30	2.40	2.55	2.70	2.80
5 Year Swap	2.70	2.85	3.00	3.15	3.25	3.30
10 Year Bond	2.90	3.15	3.30	3.35	3.40	3.45
NZD/USD	0.68	0.67	0.65	0.65	0.64	0.65
NZD/AUD	0.92	0.91	0.90	0.90	0.91	0.93
NZD/JPY	76.2	75.0	74.1	73.5	71.7	71.5
NZD/EUR	0.58	0.58	0.57	0.56	0.54	0.54
NZD/GBP	0.52	0.53	0.53	0.53	0.52	0.53
TWI	73.4	72.7	71.2	70.9	70.1	70.8

2 Year Swap and 90 Day Bank Bills



NZD/USD and NZD/AUD



NZ interest rates as at market open on 30 July 2018

Interest Rates	Current	Two weeks ago	One month ago
Cash	1.75%	1.75%	1.75%
30 Days	1.81%	1.86%	1.90%
60 Days	1.86%	1.90%	1.94%
90 Days	1.92%	1.95%	1.99%
2 Year Swap	2.13%	2.16%	2.15%
5 Year Swap	2.54%	2.55%	2.54%

NZ foreign currency mid-rates as at 30 July 2018

Exchange Rates	Current	Two weeks ago	One month ago
NZD/USD	0.6794	0.6763	0.6782
NZD/EUR	0.5829	0.5785	0.5813
NZD/GBP	0.5188	0.5114	0.5139
NZD/JPY	75.38	75.88	75.08
NZD/AUD	0.9184	0.9113	0.9166
TWI	73.34	72.76	72.68

# International forecasts

Economic Forecasts (Calendar Years)	2014	2015	2016	2017	2018f	2019f
<b>Australia</b>						
Real GDP % yr	2.6	2.5	2.6	2.2	2.7	2.5
CPI inflation % annual	1.7	1.7	1.5	1.9	1.8	1.8
Unemployment %	6.2	5.8	5.7	5.4	5.5	5.6
Current Account % GDP	-3.0	-4.7	-3.1	-2.5	-2.8	-4.0
<b>United States</b>						
Real GDP %yr	2.6	2.9	1.5	2.3	2.8	2.5
Consumer Prices %yr	1.6	0.1	1.3	2.1	2.6	2.0
Unemployment Rate %	6.2	5.3	4.9	4.4	3.9	3.7
Current Account %GDP	-2.3	-2.3	-2.3	-2.6	-2.5	-2.4
<b>Japan</b>						
Real GDP %yr	0.4	1.4	0.9	1.7	1.2	1.0
<b>Euro zone</b>						
Real GDP %yr	1.3	2.1	1.8	2.3	2.1	1.6
<b>United Kingdom</b>						
Real GDP %yr	3.1	2.3	1.9	1.8	1.2	1.5
<b>China</b>						
Real GDP %yr	7.3	6.9	6.7	6.9	6.3	6.1
<b>East Asia ex China</b>						
Real GDP %yr	4.2	3.8	3.9	4.5	4.3	4.3
<b>World</b>						
Real GDP %yr	3.6	3.5	3.2	3.8	3.8	3.7

Forecasts finalised 6 July 2018

Interest Rate Forecasts	Latest	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20
<b>Australia</b>								
Cash	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90 Day Bill	1.96	2.04	2.02	1.95	1.95	1.90	1.90	1.85
10 Year Bond	2.66	2.75	3.05	3.20	3.10	3.10	3.00	3.00
<b>International</b>								
Fed Funds	1.875	2.125	2.375	2.625	2.875	2.875	2.875	2.875
US 10 Year Bond	2.98	3.00	3.35	3.50	3.50	3.40	3.20	3.10
ECB Deposit Rate	-0.40	-0.40	-0.40	-0.40	-0.40	-0.30	-0.20	-0.10

Exchange Rate Forecasts	Latest	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20
AUD/USD	0.7391	0.74	0.74	0.72	0.72	0.70	0.70	0.72
USD/JPY	110.94	111	112	114	113	112	110	109
EUR/USD	1.1654	1.17	1.16	1.15	1.16	1.18	1.20	1.21
AUD/NZD	1.0894	1.09	1.10	1.11	1.11	1.09	1.08	1.09



---

# 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

**Anne Boniface**, Senior Economist +64 9 336 5669

**Paul Clark**, Industry Economist +64 9 336 5656

**Any questions email:** [economics@westpac.co.nz](mailto: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 ("Westpac").

### 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 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 to 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.

### Country disclosures

**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 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](http://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 Disclosure Statement at [www.westpac.co.nz](http://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 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 Kong Branch holds a banking licence and is subject to supervision by the Hong Kong Monetary Authority. Westpac Hong Kong 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 Regulatory Commission (CBRC). 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 Cardiff in

---

# Disclaimer continued

---

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. Details about the extent of our 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 regulated 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 person should not act or rely on this communication or any of its contents. The investments to which 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 financial instruments.

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 months.

Westpac 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.

- (i) Chinese Wall/Cell arrangements;
- (ii) physical separation of various Business/Support Units;
- (iii) and well defined wall/cell crossing procedures;
- (iv) a "need to know" policy;
- (v) documented and well defined procedures for dealing with conflicts of interest;
- (vi) 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 accepts 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 to WCM.

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 be 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 denominated in 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.