



NAB CASHLESS RETAIL SALES INDEX FEBRUARY 2020

NAB Group Economics

HIGHLIGHTS

- Our data mapping suggests that the ABS retail trade measure will rise 0.6% m/m in February. The ABS printed a 0.3% fall in January, while we forecast +0.2%.
- This result is higher than might have been expected given the strain on the Australian economy following bushfires and the COVID-19 coronavirus pandemic. There are three potential factors underlying this result. Firstly, January was a very weak month due to the fires, and the first part of February likely saw a return to something resembling normality for parts of the retail sector (although this has now dissipated). Secondly, the ABS seasonal factors are potentially lagging changed consumption trends. Thirdly, by late February, spending at supermarkets was beginning to ramp up in response to coronavirus, although the major ramp-up didn't begin until March.
- While it is only just over half way through the month, it looks clear that spending on food and other supermarket items will surge in March, reflecting massive buying activity by consumers in response to coronavirus. Other parts of retail, particularly associated with tourism or hospitality, are likely to plummet.

COMMENTS FROM NAB GROUP CHIEF ECONOMIST ALAN OSTER

Our forecast points to a substantial rise in the ABS retail sales measure in February (+0.6% m/m), but there is very little to celebrate. Early February probably saw a brief respite between the bushfires crisis and the coronavirus crisis, but the situation has changed now. Panic buying has now set in at supermarkets across Australia. While this will boost the headline retail sales figure in March, other retail sectors and consumption spend more generally in areas such as health, education, restaurants and other services – including airlines face massive challenges.

Last week, the Commonwealth government has announced a substantial fiscal stimulus of \$18b (0.9% of GDP) to support the economy in the face of the coronavirus outbreak. It is likely however, that further stimulus will be required to support the economy – possibly as early as later this week. The RBA will announce further policy measures tomorrow, suggesting that an inter-meeting cut is increasingly likely. The RBA has also announced it is ready to buy bonds to support the economy. While these measures should support demand, there will be ongoing supply issues as coronavirus progressively shuts parts of the global supply chain. While China is now going back to work, it is not clear that other parts of the world will be able to keep supply online.

	Year-on-year growth (% s.a.)		
	Dec-19	Jan-20	Feb-20
NAB Cashless Index*	7.7	8.4	8.3
ABS Retail Trade	2.6	2.0	--
NAB ABS Retail Trade forecast	2.1	1.8	2.3

	Month-on-month growth (% s.a.)		
	Dec-19	Jan-20	Feb-20
NAB Cashless Index*	0.0	1.1	0.7
ABS retail Trade	-0.7	-0.3	--
NAB ABS Retail Trade forecast	-0.5	0.2	0.6

Sources: NAB, Australian Bureau of Statistics (ABS). *Data seasonally adjusted (s.a.) using TRAMO/SEATS with a trading-day and Easter adjustment.

Chart 1: Cashless and total retail sales

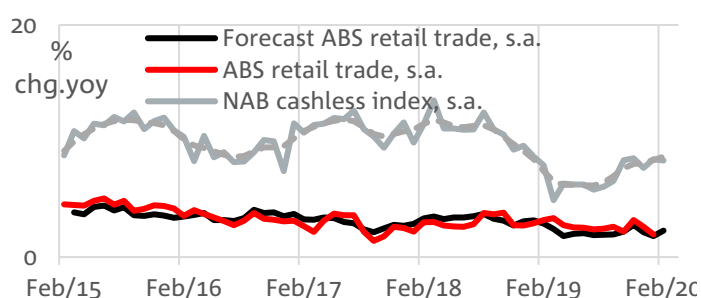
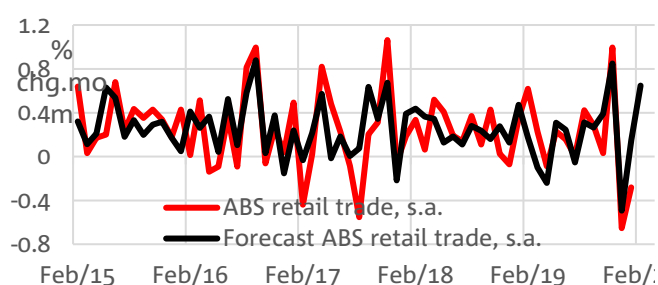


Chart 2: ABS and forecast ABS retail trade data, s.a

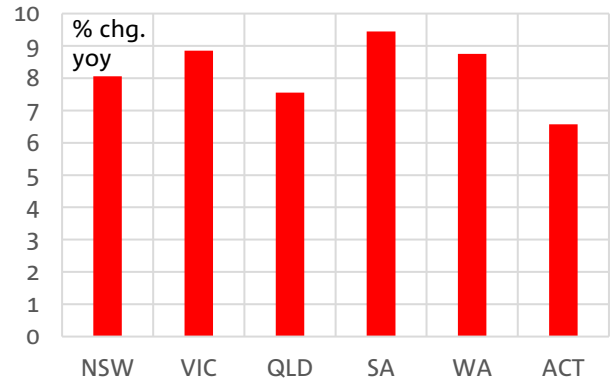


DETAILED CHARTS

Chart 3: Cashless retail sales by industry, s.a.



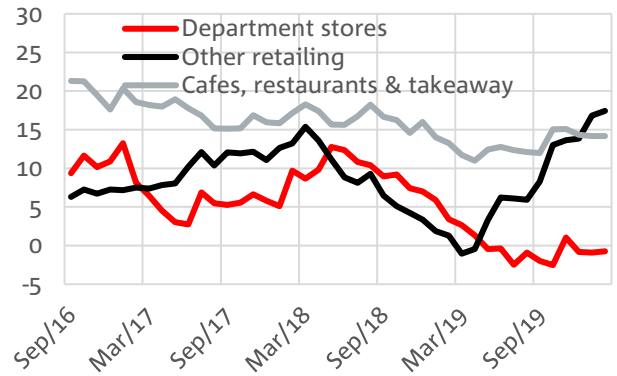
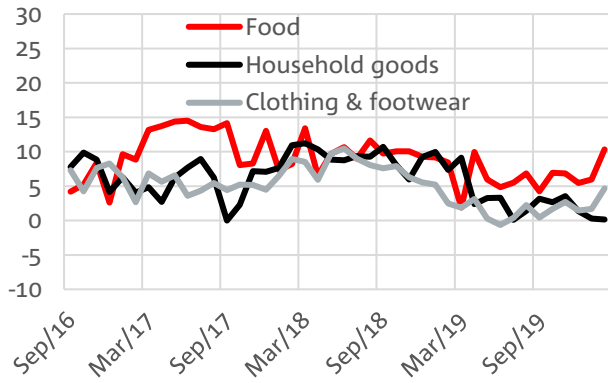
Chart 4: Cashless retail sales by state, s.a.



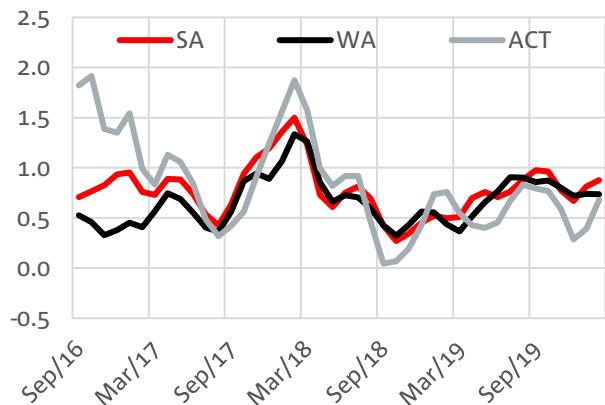
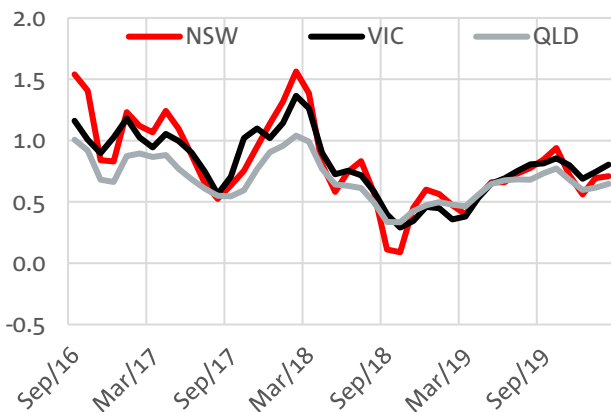
Charts 5&6: Cashless retail sales by sub-industry, s.a.



Charts 7&8: Cashless sales by industry, s.a % chg. yoy



Charts 9&10: Cashless sales by state, trend



ABOUT THE INDEX

The NAB Cashless Retail Index is broader than the NAB Online Retail Index and measures all cashless retail spending by consumers using debit and credit cards (both in person and online), BPAY and Paypal. The index is derived from personal transaction data from NAB platforms (around 2 million transactions per day) and offers a 2-3 week lead on ABS retail trade data. Likely reflecting the increasing popularity of online and contactless payments, the NAB Cashless Retail Index has continued to outpace the ABS measure of retail.

RBA research suggests 18% of the value of retail trade occurred via cash in 2016. We use mapping equations to forecast the official ABS measure of retail trade. Over time, the growth rates of the two series are likely to come together.

AUTHORS

Alan Oster, Group Chief Economist, +61 414 444 652, Alan.Oster@nab.com.au

Phin Ziebell Senior Economist, +61 475 940 662

Brien McDonald, Senior Economist, brien.mcdonald@nab.com.au

Rob Brooker, Manager – Economic Modelling

APPENDIX: METHODOLOGY AND COMPARISON WITH ABS RETAIL TRADE

The NAB Cashless Retail Sales Index is derived from NAB transactions data that have been assigned from particular merchant codes to retail industries by state. NAB electronic transactions data are based on an average 2 million transactions per day. The data are collected in real time at event record level, which allows significant flexibility to segment the data by time, location and merchant type. Transactions data may include EFTPOS, Credit Card, BPAY, Bank Transfers, Direct Debits and Paypal services where available, and include transactions with Australian and international merchants. Spending includes both online and offline transactions. The data excludes cash withdrawals made during a purchase and purchases made offline in an overseas location.

The data only capture electronic retail transactions (and not those through cash payments), hence it is subject to the changing nature and take-up rate of electronic payment methods relative to cash. Any growth in the overall transaction value may be attributable to either an increased preference towards card-based payments by consumers (such as near-field payment “PayWave”), or a higher level of spending across the economy by consumers, i.e. a pick-up in nominal sales. However, it is currently not possible to differentiate between these effects. Customer spending is based on where the customer lives, which may or may not be where the actual spending activity occurs. Customers without an Australian residential address are excluded.

These estimates are aggregated into national industries by applying to them the state shares of each industry from the ABS retail trade publication. State estimates are aggregated by applying the industry shares of each state from the same source. These adjustments are intended to correct for differences between the incidence of NAB transactions across industries and states when compared with the official ABS data.

The industry and state data have been seasonally adjusted using Tramo-SEATS with a trading day and Easter adjustment. Given the relatively short time frame for the data, this seasonal adjustment process should be regarded as provisional: estimates are likely to change as a longer run of data becomes available, and can be revised from month-to-month given the concurrent process. The trends have been extracted from the same process.

Our aim is to have a data series that is as reflective as possible of retail spend. As such each month we will revise previous data to take into account changes in payment processing such as chargebacks and delayed payments. Given these attributes, typically, larger revisions occur to the most recent months, and diminish as the data ages.

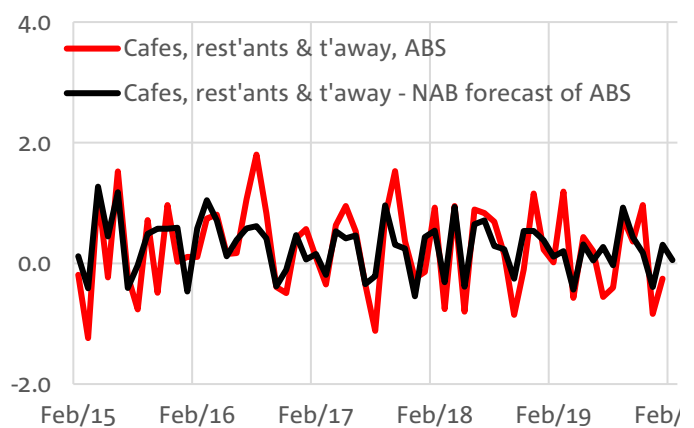
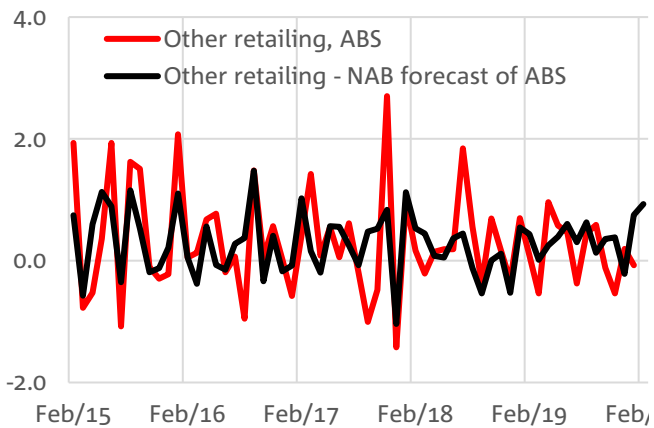
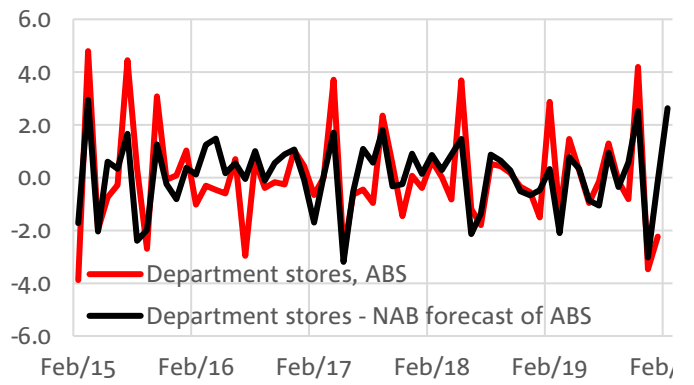
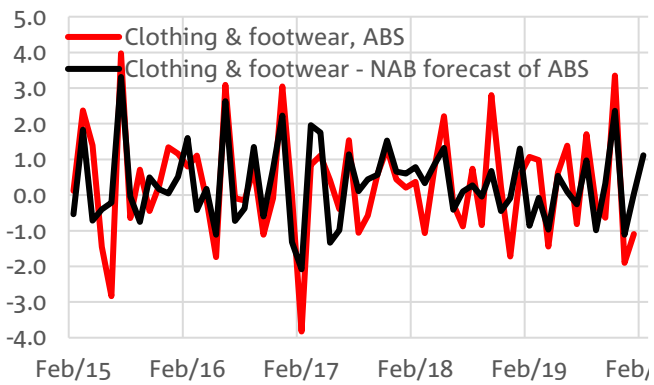
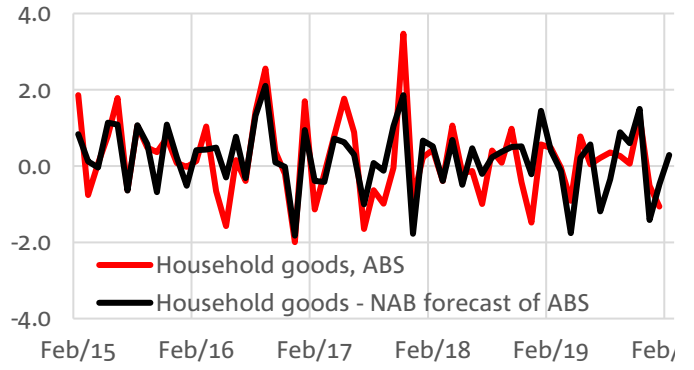
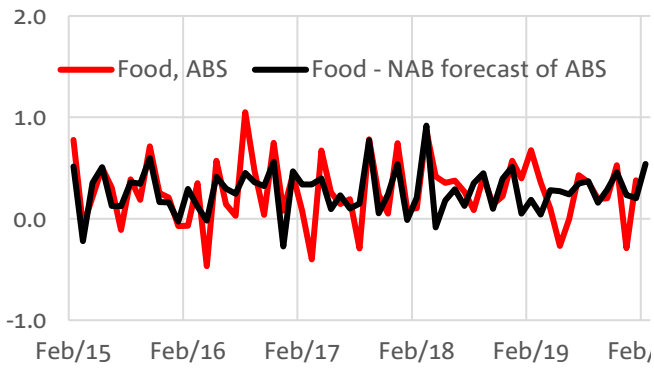
After appropriate weighting and seasonal adjustment, the components of NAB’s cashless retail index (food, household goods, clothing & footwear, department stores, other retailing and cafes, restaurants & takeaway) can generate predictions of the corresponding ABS retail trade series. Aggregating these provides a forecast of total ABS retail trade.

The charts in the appendix show the relationship between the ABS total and NAB Cashless retail sales measures mapped to the ABS using monthly seasonally adjusted data, for the main retail industry groups. The sources of difference between the two series are:

- The inclusion of cash transactions in the ABS measure and changes in their share of total transactions. This share may begin to stabilise as the penetration of contactless payment systems reaches a limit reflecting minimum spend requirements for cashless transactions and because of the existence of a proportion of merchants who deal only in cash.
- The NAB data include a larger share of online transactions (7%) than the ABS (3%).
- Changes in NAB’s market share of cashless transactions.
- Differences between the seasonality in the ABS and NAB series.

Therefore, the forecasts from the use of the NAB Cashless Retail Index should be used with caution.

Comparisons between mapped NAB series and ABS data by retail industry group, s.a. % change m/m



Group Economics

Alan Oster
Group Chief Economist
+(61 3) 8634 2927

Jacqui Brand
Executive Assistant
+(61 3) 8634 2181

Dean Pearson
Head of Behavioural &
Industry Economics
+(61 3) 8634 2331

John Sharma
Economist
+(61 3) 8634 4514

Australian Economics and Commodities

Gareth Spence
Senior Economist
+(61 0) 436 606 175

Phin Ziebell
Senior Economist
+(61 0) 475 940 662

Behavioural & Industry Economics

Robert De Iure
Senior Economist –
Behavioural & Industry
Economics
+(61 3) 8634 4611

Brien McDonald
Senior Economist –
Behavioural & Industry
Economics
+(61 3) 8634 3837

Steven Wu
Economist – Behavioural &
Industry Economics
+(61 3) 9208 2929

International Economics

Tony Kelly
Senior Economist
+(61 3) 9208 5049

Gerard Burg
Senior Economist –
International
+(61 3) 8634 2788

Global Markets Research

Ivan Colhoun
Global Head of Research
+(61 2) 9237 1836

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