



NAB CASHLESS RETAIL SALES INDEX APRIL 2020

NAB Group Economics

HIGHLIGHTS

- Our data mapping suggests that the ABS retail trade measure will fall 5.3% in April. The ABS printed an extraordinary 8.5% gain in March, while we forecast 0.2% (revised to 4.3%).
- In March, our model picked up the large swings between sectors (huge gains in supermarkets and liquor, plummeting clothing and footwear), but these did not fully map to the final ABS print.
- Our data for April suggests that the buying activity in March was essentially a one-off, and as a result largely unwound in April. While the removal of containment measures may see a bounce back in activity it is likely that there will be ongoing fallout, including for retail.

COMMENTS FROM NAB GROUP CHIEF ECONOMIST ALAN OSTER

While March delivered a record retail trade result, this largely reflected one-off stockpiling at the peak of the coronavirus pandemic in Australia. The level of supermarket buying has already returned closer to normal, and crucially, the hole blown in discretionary retail is unlikely to be filled any time soon. With our latest economic forecasts pointing to unemployment at 11.7% by mid-year and remaining above pre-crisis levels over the next 18 months, consumers are unlikely to have a great deal of discretionary spending power.

This is reflected in the latest NAB Monthly Business Survey results, which show that business weakened further in April and are now well below the levels seen in the GFC. Conditions fell across almost all non-mining industries, including a sharp fall in wholesale which saw a surprise increase last month.

Restrictions still apply to some retail sub-sectors (notably cafes, restaurants and pubs), but rules are now being loosened elsewhere. Importantly, this does not mean that retail spending will necessarily return to pre-crisis levels. While government can directly limit the level of economic activity through lockdowns, it is unable to directly control the return to pre-coronavirus level of activity. More fiscal stimulus will probably be needed to put the Australian economy back closer to pre-crisis levels.

Year-on-year growth (% s.a.)			
	Feb-20	Mar-20	Apr-20
NAB Cashless Index*	8.8	13.3	6.2
ABS Retail Trade	1.8	10.1	--
NAB ABS Retail Trade forecast	3.5	8.7	2.9

Month-on-month growth (% s.a.)			
	Feb-20	Mar-20	Apr-20
NAB Cashless Index*	0.5	2.8	-3.5
ABS retail Trade	0.6	8.5	--
NAB ABS Retail Trade forecast	1.7	4.3	-5.3

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

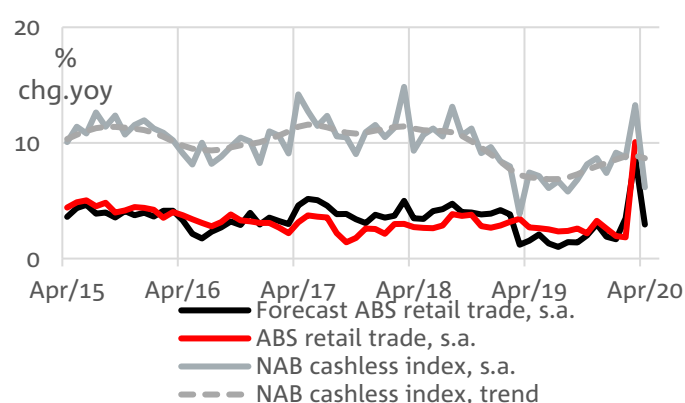
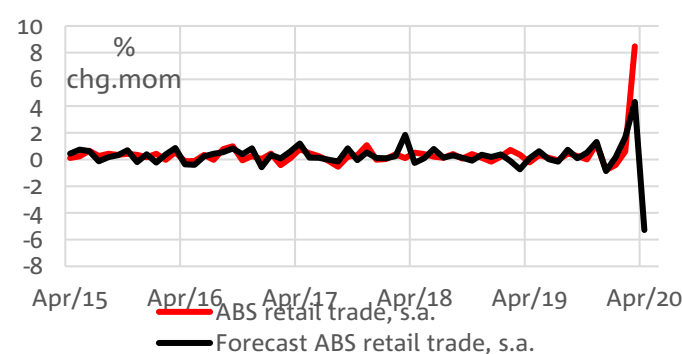


Chart 2: ABS and forecast ABS retail trade data, s.a

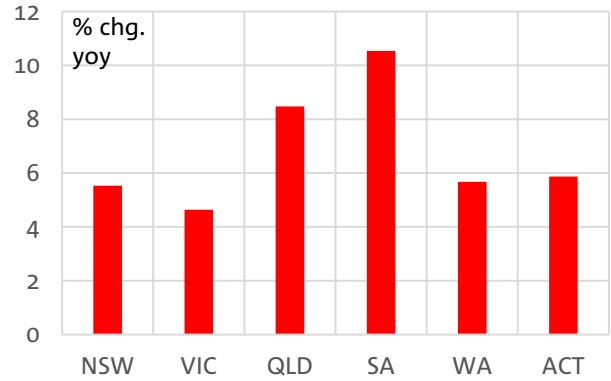


DETAILED CHARTS

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



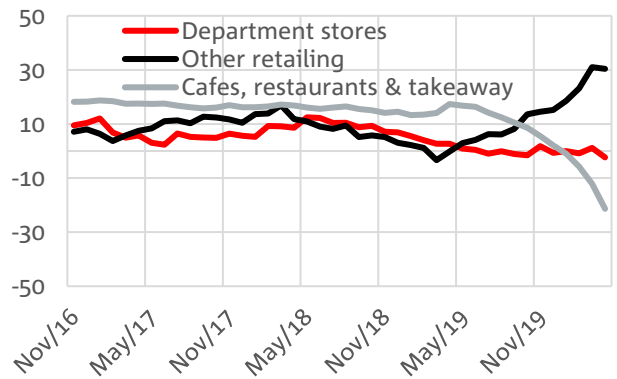
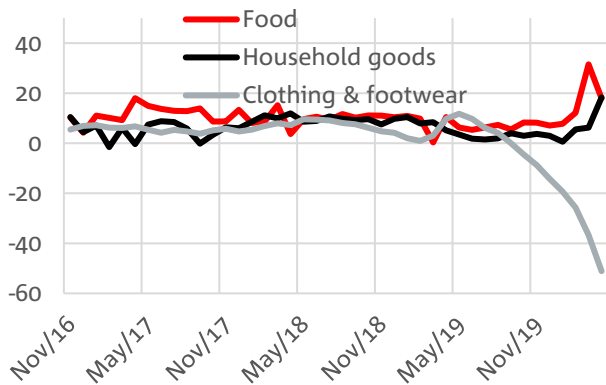
Chart 4: Cashless retail sales by state, s.a.



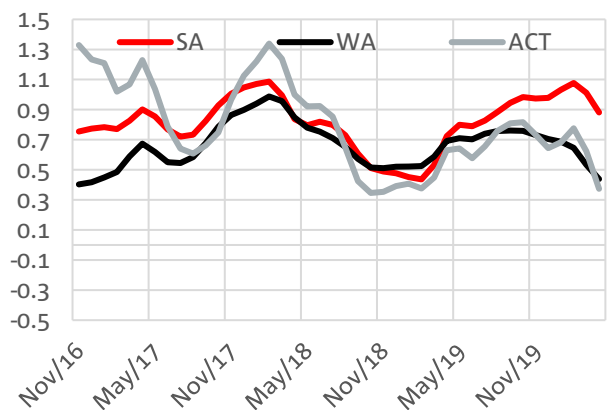
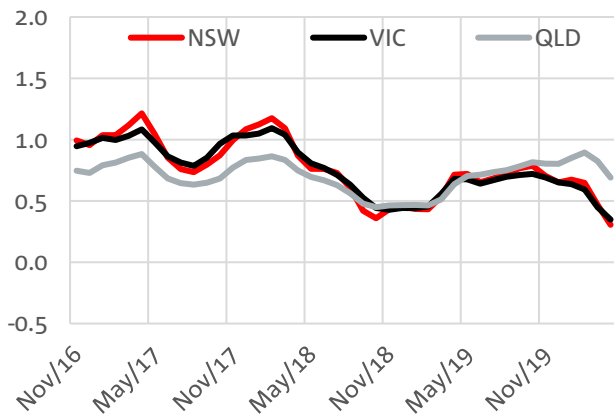
Charts 5&6: Cashless retail sales by sub-industry, s.a.



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.

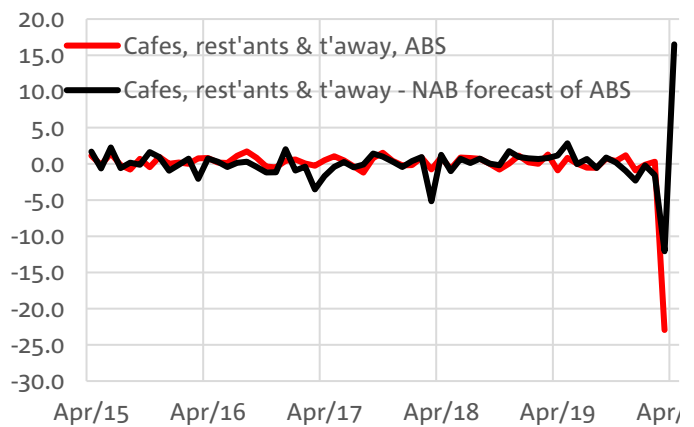
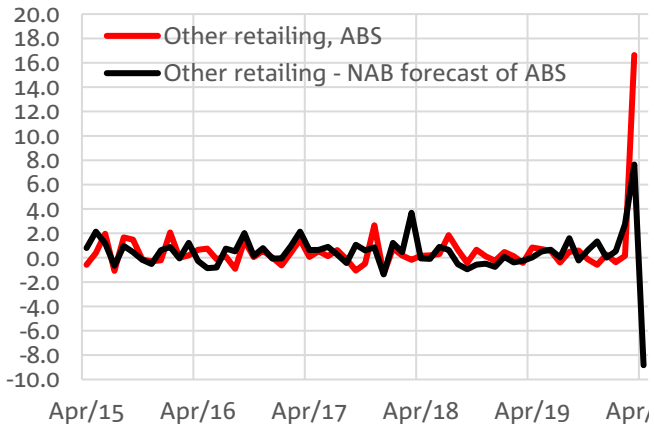
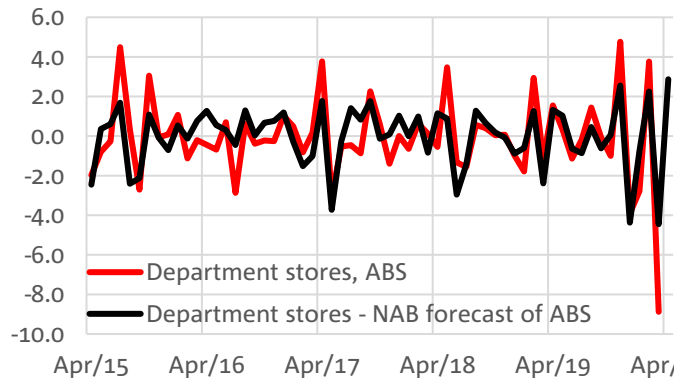
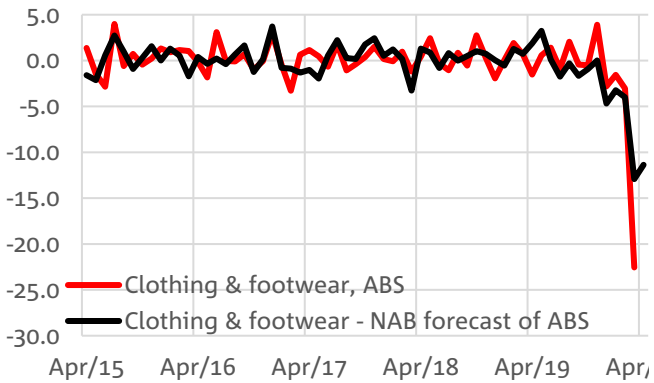
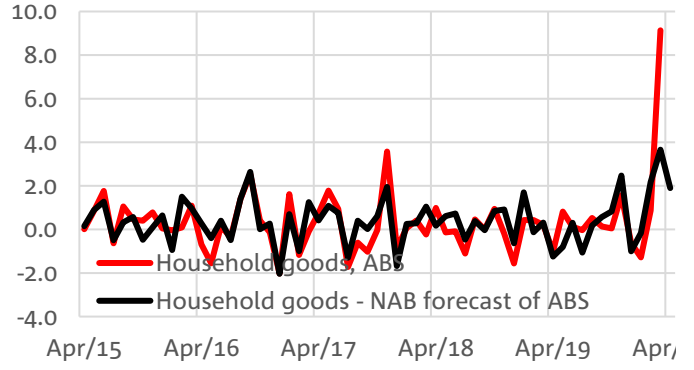
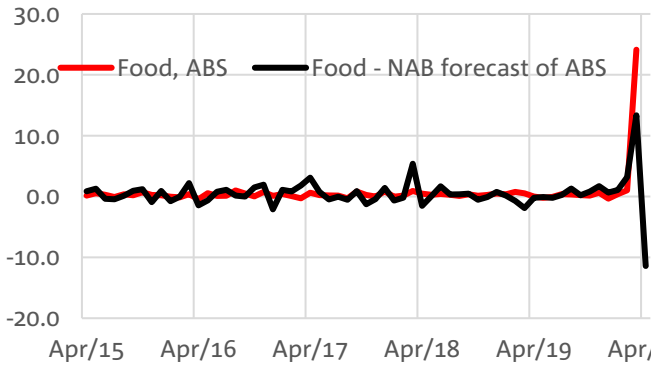
After appropriate weighting and seasonal adjustment, the components of NAB’s cashless retail index (food, household goods, clothing & footwear, department stores, other retailing and cafes, restaurants & takeaway) can generate predictions of the corresponding ABS retail trade series. Aggregating these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