

Electronic Card Transactions: May 2014

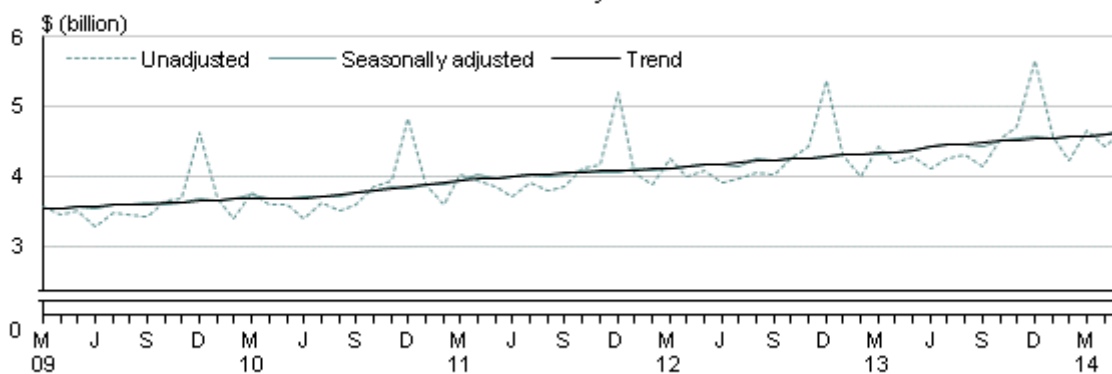
Embargoed until 10:45am – 11 June 2014

Key facts

Changes in the seasonally adjusted value of transactions (compared with April 2014) were:

- total electronic card transactions **rose** 1.7 percent.
- transactions in the retail industries **rose** 1.3 percent.
- transactions in the core retail industries **rose** 1.0 percent.

Value of retail electronic card transactions
Monthly



Source: Statistics New Zealand

Liz MacPherson, Government Statistician
ISSN 1178-0258
11 June 2014

Commentary

All figures are seasonally adjusted unless otherwise specified.

Retail spending using electronic cards increased by a seasonally adjusted 1.3 percent in May 2014.

Spending rose in all six retail industries during May, the first time this has occurred since October 2013.

Fuel and consumables had the largest rises of the retail industries. Spending on fuel was up 2.8 percent (\$21 million), while consumables spending increased 1.1 percent (\$18 million).

Core retail spending (which excludes the vehicle-related industries) rose 1.0 percent in May 2014.

Spending also rose for the two non-retail industries (services and non-retail) in May, resulting in a 1.7 percent rise in the total value of transactions.

Trends for the total, retail, and core retail series have all generally been increasing since October 2002.

In unadjusted terms, a total of 121 million transactions were made across all industries in May, with an average value of \$51. The total amount spent across all transactions was \$6.2 billion.

For more detailed data see the Excel tables in the 'Downloads' box.

Definitions

About Electronic Card Transactions

Electronic Card Transactions (ECT) is a monthly series that covers all debit, credit, and charge card transactions with New Zealand-based merchants. This information can be used as an indicator of the change in the level of consumption expenditure and economic activity in general.

Statistics NZ would like to acknowledge the cooperation of the private sector in providing the data for publication, which supports the delivery of statistics without significant additional burden on businesses in New Zealand.

More definitions

ANZSIC: Australian and New Zealand Standard Industrial Classification.

Average number of transactions per person: the total number of transactions divided by the sum of the average resident population and the average number of overseas visitors to New Zealand for the reference year.

Average transaction value: the total value of transactions divided by the total number of transactions.

Average value of transactions per person: the total value of transactions divided by the sum of the average resident population and the average number of overseas visitors to New Zealand for the reference year.

Card-not-present transactions: purchases made using a credit card, via telephone, mail order, Internet, or credit card direct debit where the card is not present for the transaction.

Cash out: cash taken out at a point-of-sale terminal, with or without a purchase.

Core retail series: includes consumables, durables, hospitality, and apparel industry groups. See [Data quality](#) for detailed industry descriptions.

Debit card: card used for debiting money directly from a bank account. Also commonly referred to as eftpos, cash, or ATM card.

Debit transactions: where the purchaser uses the cheque or savings buttons on the point-of-sale terminal.

Eftpos: electronic funds transfer at point of sale.

Retail series: includes the core retail series plus the motor vehicles and fuel industry groups. See [Data quality](#) for detailed industry descriptions.

Share of spending by electronic card transactions: proportion of total spending that debit and credit card spending makes up. This figure can be approximated by dividing the value of retail electronic card transactions (excluding GST) by total retail sales, as estimated from the Retail Trade Survey.

Related links

Upcoming release

Electronic Card Transactions: June 2014 will be released on 9 July 2014.

[Subscribe to information releases](#), including this one, by completing the online subscription form.

[The release calendar](#) lists all our upcoming information releases by date of release.

Past releases

[Electronic Card Transactions](#) has links to past releases.

Related information

The latest movements in related series were as follows:

- the [food price index](#) rose 0.6 percent in April 2014, compared with March 2014
- the [consumers price index](#) rose 0.3 percent in the March 2014 quarter, compared with the December 2013 quarter
- [credit card billings in New Zealand](#), as issued by the Reserve Bank of New Zealand, decreased 0.6 percent in April 2014, compared with April 2013.

Data quality

This section contains information that does not change between releases.

- [Data source](#)
- [Industry group descriptions](#)
- [Interpreting the data](#)
- [Differences between the ECT series and the Retail Trade Survey](#)

Data source

We produce statistics on electronic card transactions from aggregated administrative data generated in the process of administering New Zealand-based electronic transactions. The data are supplied in a highly aggregated form and include goods and services tax (GST).

Industry group descriptions

The table below describes the eight aggregated industry groups commonly referred to in the Electronic Card Transactions (ECT) information release text.

Aggregated industry groups in ECT releases	
Industry group	Descriptor
Consumables	Includes food and liquor retailing
Durables	Includes furniture, hardware, and appliance retailing; pharmacy, cosmetic, and toiletry retailing
Hospitality	Includes accommodation, bars, cafes and restaurants, and takeaway retailing
Apparel	Includes clothing, soft-goods, and footwear retailing
Motor vehicles	Includes automotive parts and accessories; vehicle and tyre retailing
Fuel	Automotive fuel retailing
Services	Includes personal and household services, including hire and repair; automotive electrical and repair services
Non-retail (excluding services)	Includes travel and health, and wholesaling
Note: The core retail series comprises the consumables, durables, hospitality, and apparel industry groups. The retail series comprises the core retail series plus the motor vehicles and fuel industry groups.	

Interpreting the data

Coverage

The Electronic Card Transactions (ECT) series includes:

- all debit, credit, and charge card transactions with New Zealand-based merchants
- card-present transactions at the point of sale, whether authorised by PIN or signature
- card-not-present transactions (eg payments of invoices; mail order, telephone, and Internet sales via credit card; or direct debit from credit cards) where the card is not presented directly at a point-of-sale terminal
- GST.

The ECT series excludes:

- all credit card transactions with non-New Zealand-based merchants (eg via the Internet, telephone, or mail order)
- transactions by New Zealand card holders while overseas
- cash, cheque, or hire purchase transactions
- automatic payments or direct debits from bank accounts
- Internet bank account payments
- withdrawals from ATMs.

Note:

- One of the respondent companies includes cash-out data, but the other excludes them.
- One of the respondent companies includes manual, voucher-based credit card transactions, but the other excludes them.

Published levels

We publish data at three levels of aggregation. These are:

1. Electronic card transactions – total

- Includes data for all industry classes; a census of all electronic transactions.

2. Electronic card transactions – retail industries

- A subset of total electronic card transactions covering these ANZSIC06 industries: retail trade (ANZSIC division G) and accommodation and food services (ANZSIC division H).

3. Electronic card transactions – core retail industries

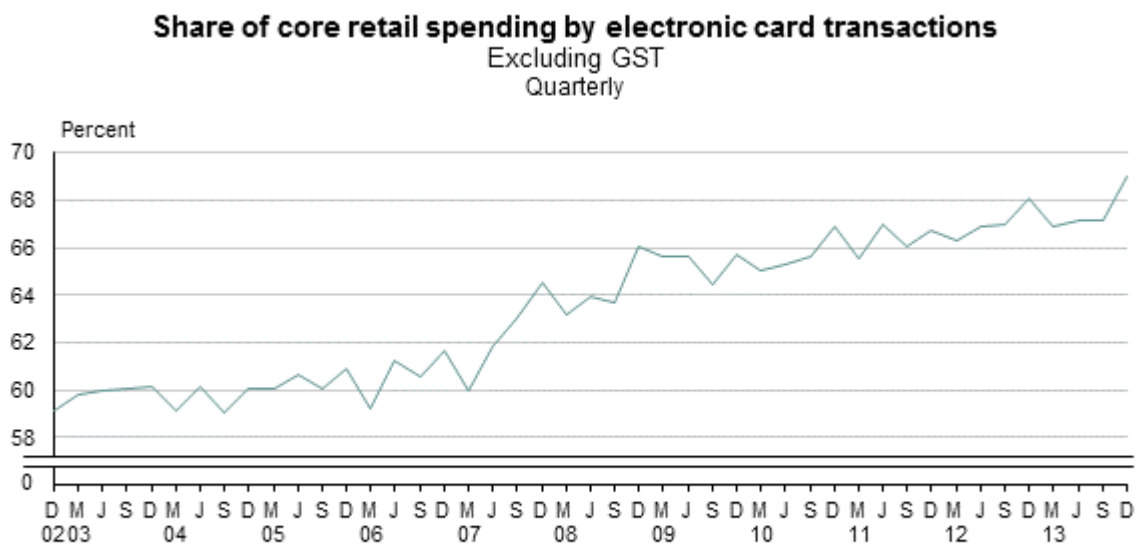
- A subset of retail electronic card transactions, excluding the motor vehicle-related industries (ANZSIC groups G1110 motor vehicles and parts retailing and G1120 fuel retailing). Motor vehicles and parts generally have low rates of electronic transactions.

We publish the following series for each aggregation:

- values – actual (unadjusted), seasonally adjusted, and trend
- volumes – actual (unadjusted).

Electronic card transactions share of spending

The share of electronic card transactions in the core retail industries has generally been increasing slowly over time. We estimated the mean share of the core retail spending (excluding GST) in the December 2013 quarter at 69.0 percent, compared with 68.0 percent in December 2012, and 66.7 percent in December 2011.



Source: Statistics New Zealand

Seasonally adjusted series

We use the X-12-ARIMA package to produce the seasonally adjusted estimates and trend estimates for the three series: total, retail, and core retail ECT. Seasonal adjustment aims to eliminate the impact of regular seasonal events (such as annual cycles in agricultural production, winter, or annual holidays) on time series. This makes the data for adjacent months more comparable. There is no specific adjustment made for leap years in these series.

We subject all seasonally adjusted figures to revision each month. This enables the seasonal component to be better estimated and removed from the series.

Estimated trend

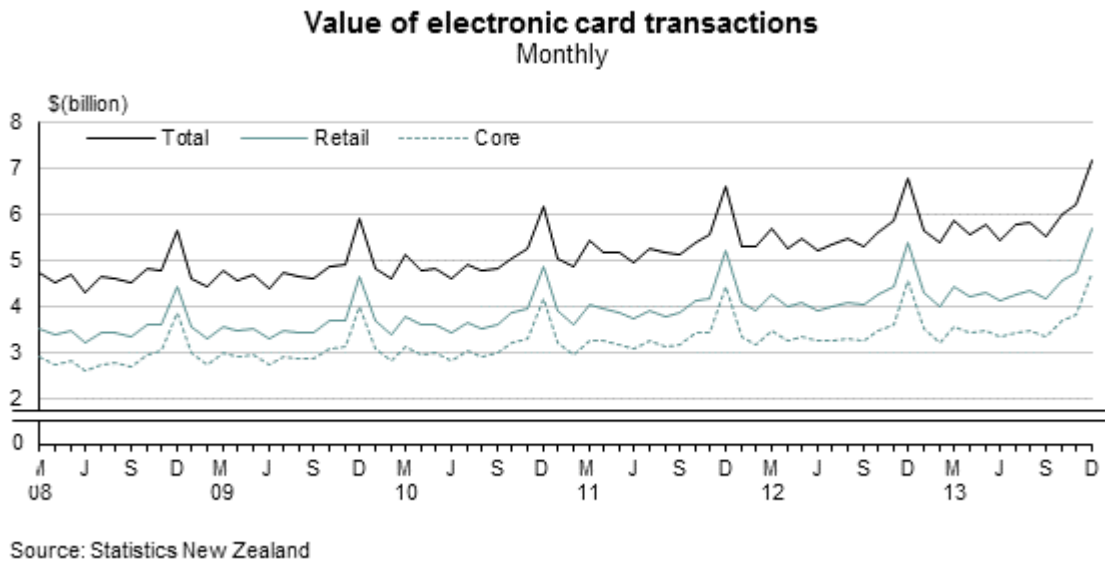
For any series, we can break the survey estimates down into three components: trend, seasonal, and irregular. We have removed the seasonal component from the seasonally adjusted series, and we have removed both the seasonal and the irregular components from the trend series. Trend estimates reveal the underlying direction of movement in a series, and are likely to indicate turning points more accurately than seasonally adjusted estimates.

We calculate the trend series using the X-12-ARIMA seasonal adjustment package. They are based on an 11-, 13-, or 23-month moving average of the seasonally adjusted series, with an adjustment for outlying values.

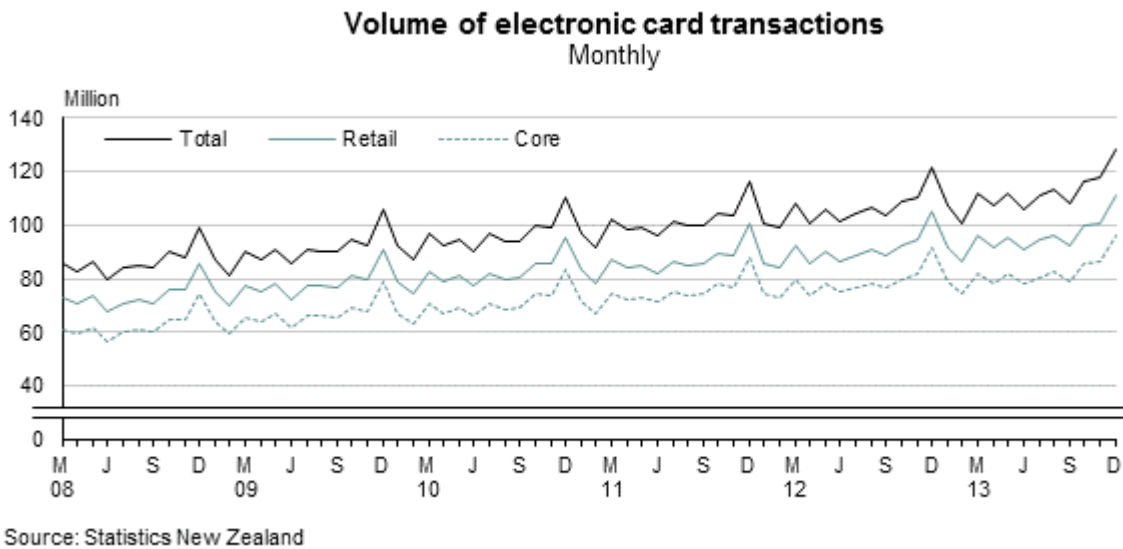
Trend estimates towards the end of the series incorporate new data as they become available and can therefore change as more observations are added to the series. Revisions can be particularly large if an observation is treated as an outlier in one month, but is found to be part of the underlying trend as further observations are added to the series. Typically, only the estimates for the most recent month are subject to substantial revisions.

Seasonal patterns

The three unadjusted series (for the value of total, retail, and core retail electronic card transactions) have similar seasonal patterns, peaking in December each year.



The three ECT series for the number of total, retail, and core retail electronic card transactions have similar patterns to those for the transaction values, peaking each December.



Impact of electronic card transaction processing outages

Occasionally, processing outages prevent customers from being able to make transactions at the point of sale. Where these are significant in extent and duration, they can affect the published results for the ECT series. The last significant outage was in December 2005.

Differences between the ECT series and the Retail Trade Survey

A significant proportion of spending using debit and credit cards takes place in the retail sector. The Retail Trade Survey (RTS) also collects sales information about the retail sector from a sample of retail establishments. Given the similarities in coverage of the two series, it is expected they may be comparable. However, users should be aware that there are a number of differences between the two series that affect comparison between them. We describe these differences below.

Coverage

The RTS includes payments made by cash, cheque, and hire purchase, in addition to electronic card.

Coverage differences between the Electronic Card Transaction series and the Retail Trade Survey		
	Cash sale	Credit sale
Electronic Card Transaction series	Debit card	Credit card
		Charge card
Retail Trade Survey	Debit card	Credit card
	Cash	Charge card
	Cheque	Hire purchase

GST

Electronic card transaction data collected include GST, whereas the RTS collects sales excluding GST. As GST is not separately identified in the data, any attempts to adjust the ECT series for GST are approximations only.

Timing issues

Several timing differences exist between the ECT series and RTS.

- Electronic transactions occur instantly at the point of sale, whereas many retailers operate on an accrual accounting basis (recording a sale before any money has changed hands).
- Instalments on lay-bys may be paid electronically but are not recorded as a sale by the retailer until the goods are picked up.
- Gift vouchers may be purchased electronically but are not recorded as a sale until they are redeemed.

Classification issues

We have developed ECT series that relate to the industry coverage of the RTS. We matched the industry codes supplied by the respondents to our classifications. There are instances where the classification allocations used by the respondents differ from ours. This results in some coverage differences at the industry and overall retail level, and potentially some overstatement of the ECT retail industry levels. We cannot fully assess the impact of this on ECT retail data levels, as source data are only supplied in aggregate form, but we estimate retail levels are overstated by less than 5 percent.

Changes in share of spending by electronic card transactions

Retailers' uptake of electronic transaction technology and consumers' increasing card usage have led to a greater share of retail sales being made by electronic transactions. This results in the ECT series having a much steeper trend than the RTS. This increase in share is slowing over time, particularly in industries where the technology is approaching full coverage. However, it is still affecting the movements in electronic card transactions. Users should be aware that movements in electronic card transactions are overstated by this increasing share when comparing the ECT series with the RTS.

Differences observed in data series

We have compared the ECT series with the RTS. The results indicate the following.

- Movements in the actual (unadjusted) values of electronic card transactions provide a good indication of the direction of the RTS actuals, as the two series usually move in the same direction.
- Movements in ECT actuals are frequently different in magnitude compared with movements in RTS actuals.
- The differences found in the actuals data flow through to comparisons of the ECT and RTS seasonally adjusted series, which can differ in the direction and size of the movement.
- These differences have generally been outside the acceptable tolerances indicated by users for the use of the ECT series as a predictor of movements in the RTS.

Given these differences, we do not recommend using the ECT series as an indicator or predictor of the RTS series.

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Tables

The following tables are available in Excel format from the 'Downloads' box. If you have problems viewing the files, see [opening files and PDFs](#).

1. Electronic card transactions by industry – unadjusted monthly values
2. Electronic card transactions by industry – seasonally adjusted monthly values
3. Electronic card transactions by industry – trend monthly values
4. Electronic card transactions – number of transactions
5. Electronic card transactions – averages and proportions

Access more data on Infoshare

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For this release, select the following category from the Infoshare homepage:

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