

AUSTRALIAN BUREAU OF STATISTICS EMBARGO : 6 P.M. 2 AUGUST 1974 CANBERRA

Reference No. 11.6

RETAIL SALES OF GOODS : AUSTRALIA MONTH OF JUNE 1974 (Provisional)

MAIN FEATURES

- . The provisional estimate of the value of retail sales (excl. motor vehicles, parts, petrol, etc.) for June 1974 is \$1,180.0m.
- . Seasonally adjusted, the June 1974 estimate is 18.6% greater than June 1973.
- Seasonally adjusted, the June 1974 estimate is 2.3% greater than May 1974.

EXPLANATORY NOTES

Introduction

The table overleaf gives a provisional estimate of the total value of retail sales in Australia (excluding motor vehicles, parts, petrol, etc.) for the month of June 1974. Figures for a number of earlier months are also shown for purposes of comparison. All figures in this bulletin are on a basis comparable with the 1968-69 Census of Retail Establishments.

2. The monthly estimates in this issue have been revised on the basis of information on trading by new businesses which has become available from the 1973 Census of New Businesses. While these revisions have resulted in increases in the levels of monthly sales previously published there have been only slight changes in the movements of sales from month to month.

The monthly sub-sample

3. The provisional monthly estimates of retail sales are obtained from a *sub-sample* of those establishments included in the quarterly sample of retail establishments. The monthly sub-sample is comparatively small since it is designed to provide prompt estimates of the total value of retail sales (excluding motor vehicles, parts, petrol, etc.) without placing an undue burden on either the resources of the Bureau or upon retail establishments.

Reliability of estimates

As the provisional monthly estimates are derived 4. from returns received from a sample of retail establishments they may differ somewhat from the results which would have been obtained from a comparable complete collection. A measure of the likely difference is given by the standard error of the estimate. There are about 2 chances in 3 that a sample estimate will differ from results which would be obtained from a comparable complete collection by less than 1 standard error and 19 chances in 20 that the difference would be less than 2 standard errors. If, for example a sample gives an estimate of \$1,000 million and the standard error of this estimate is 1 per cent, i.e. \$10 million, then there are 2 chances in 3 that a comparable complete collection

would give a figure within the range of \$990 million to \$1,010 million and 19 chances in 20 that the figure would be within the range of \$980 million to \$1,020 million.

The standard error of the provisional estimates 5. of the total value of monthly retail sales (excluding motor vehicles, parts, petrol, etc.) is about 1.0 per cent. The standard error of the month-to-month movement of the provisional estimates of the value of retail sales is generally about 0.3 per cent of the current monthly estimate. For example, the movement in the value of retail sales between the months of May and June 1974 is shown by the original series in the table overleaf as a decrease of \$116.0 million. The standard error of this movement is about 0.3 per cent of the June 1974 estimate, i.e. approximately \$3.5 million. Therefore there are 2 chances in 3 that the movement in the value of retail sales between May and June 1974 was between \$112.5 million and \$119.5 million, and 19 chances in 20 that it was between \$109.0 million and \$123.0 million. Expressed in another way the estimates show a proportionate movement in the value of retail sales between May and June 1974 of 9.0 per cent and this has a standard error of about 0.3 percentage points, i.e. there are 2 chances in 3 that the proportionate movement was between 8.7 per cent and 9.3 per cent and 19 chances in 20 that it was between 8.4 per cent and 9.6 per cent.

6. The provisional monthly estimates may also differ from those which would be obtained from a sample as large as that used to provide quarterly estimates. Hence, the sum of the provisional estimates for the three months comprising a quarter may differ from the estimate obtained for that quarter from the full quarterly sample. The standard error of this difference is approximately 0.8 per cent of the quarterly estimate. The monthly estimates are subsequently adjusted in accordance with the quarterly estimates as they become available.

Seasonal adjustment

7. Seasonally adjusted statistics are also shown in the table overleaf. In the seasonal adjustment, account has been taken of both normal seasonal factors and "trading-day" effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month). While the normal seasonal factors should change only gradually from year to year the trading-day adjustment for any month will vary trom year to year in accordance with the combination of days which occur in the month. Adjustment has also been made for the effects of movement in the date of Easter and Australia Day. Figures in the bulletin are based on a re-analysis which was made to take into account a change in the December seasonal pattern of sales from December 1971. It should be noted that the seasonally adjusted figures reflect the sampling errors to which the original figures are subject. The seasonally adjusted statistics shown in this issue have been further recalculated in order to to take account of the revisions made to all the estimates. Details of the methods used in seasonally adjusting this and other series are given in *Seasonally Adjusted Indicators 1974* (Reference No. 1.10) and the appendix

to *Retail Sales of Goods* (Reference No. 11.4) December quarter 1973 of 23 May 1974.

Further information

8. For further information relating to the basis of compilation of retail sales statistics we the quarterly bulletin *Retail Sales of Goods* (Reference No. 11.4) December quarter 1973 of 23 May 1974.

TOTAL VALUE OF RETAIL SALES OF GOODS (EXCLUDING MOTOR VEHICLES, PARTS, PETROL, ETC.) MONTHLY ESTIMATES : AUSTRALIA (a)(b) (All figures are on a basis comparable with the 1968-69 Retail Census)

(\$ million)

Month	1969-70	1970-71	1971-72	1972-73	1973-74
		ORIG	INAL		
July	704.8	773.4	852.4	883.1	1,017.8
August	709.8	757.5	834.1	924.1	1,100.7
September	706.0	769.9	852.5	931.6	1,055.6
October	764.1	838.6	891.9	967.8	1,161.7
November	754.9	828.9	925.5	1,028.0	1,231.1
December	1,007.9	1,089.0	1,180.2	1,274.3	1,462.3
January	742.6	786.7	816.4	937.6	(c)1,136.0
February	692.6	740.3	836.0	892.5	(c)1,073.0
March	726.4	820.1	888.9	989.2	(c)1,158.0
April	752.9	831.2	853.6	972.3	(c)1,190.0
May	798.5	862.2	945.7	1,075.3	(c)1,296.0
June	744.2	822.8	895.2	1,029.0	(c)1,180.0
Total for year	9,104.7	9,920.6	10,772.4	11,904.8	(c)14,062.2
		SEASONALLY	ADJUSTED (d)		
July	727.5	787.5	871.2	937.6	1,081.1
August	733.2	793.0	873.2	943.4	1,107.4
September	734.1	799.9	880.1	954.6	1,118.6
October	742.8	816.4	879.3	966.4	1,135.8
November	741.8	813.6	883.0	974.1	(e)1,152.1
December	757.3	814.7	887.4	983.9	(e)1,144.3
lanuary	769.2	826.9	880.3	991.4	(c)(e)1,196.9
February	774.5	837.1	904.7	999.7	(c)(e)1,202.1
March	774.7	850.1	908.1	1,009.6	(c)1,210.5
April	779.8	856.6	911.6	1,040.2	(c)1,249.0
May	785.8	859.2	922.8	1,044.5	(c)1,240.4
June	787.3	868.3	926.2	1,070.3	(c)1,269.5

(a) Excludes Northern Territory and Australian Capital Territory. (b) All figures have been revised *(see* paragraph 2, page 1). Figures from April 1973 are subject to further revision when more precise information is available relating to trading by new businesses. (c) Provisional estimate (see paragraph 6, page 1). (d) See paragraph 7, page 1. (e) The declaration of an additional holiday on 31 December in some States, which is not taken into account in the seasonal adjustment procedure, may have affected the estimates for the months of December and January and the percentage movements between November, December, January and February. In addition, a reduction since December 1971 in December sales relative to other months may still be continuing. If this is so, the seasonal analysis would tend to understate the adjusted figure for December 1973.

Notes on sampling aspects and on seasonal adjustment are shown overleaf.

J. G. MILLER Acting Commonwealth Statistician

Australian Bureau of Statistics Canberra, A.C.T. 2600

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning Mr K. Busteed on 49 0211 extension 290 or, in each State capital, by telephoning the office of the Australian Bureau of Statistics.

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