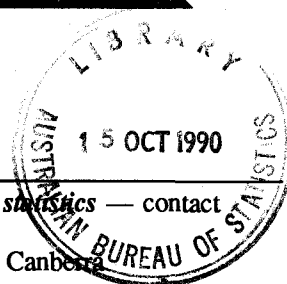




CATALOGUE NO. 8501.0

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RETAIL TRADE AUSTRALIA, AUGUST 1990



PHONE INQUIRIES

- *about these statistics and the availability of related unpublished statistics* — contact Bill Powell on Canberra (06) 252 7442 or any ABS State office.
- *about the constant price estimates* — contact Mr Allan Tryde on Canberra (06) 252 6801
- *about other statistics and ABS services* — contact Information Services on Canberra (06) 252 6627, 252 5402, 252 6007 or any ABS State office.

MAIL INQUIRIES

- *write to Information Services*, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any ABS State office.

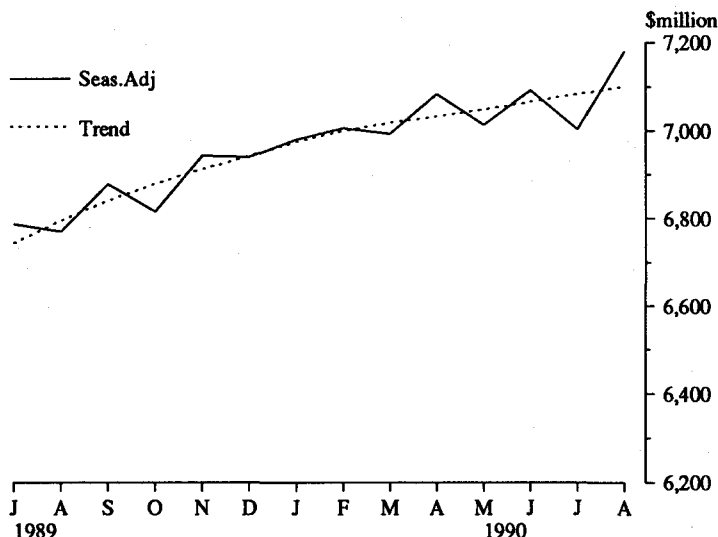
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- on **DISCOVERY** — key *656#.
- on **AUSSTATS** — phone (06) 252 6017.
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Trend estimates for the most recent months may be revised as data for subsequent months become available. For example, if the September seasonally adjusted estimate shows a 1.0 per cent rise, then the movement in the trend estimate for September would be 0.5 per cent. August and July would be revised upwards by 0.2 percentage points. A 1.0 per cent fall in the seasonally adjusted estimate would produce a movement in the trend estimate for September of 0.2 per cent, and August and July would be revised downwards by 0.1 percentage points. See paragraphs 23 and 24 of the Explanatory Notes.

SUMMARY OF FINDINGS

CHART1: TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, MONTHLY ESTIMATES, AUSTRALIA



Australian Estimates

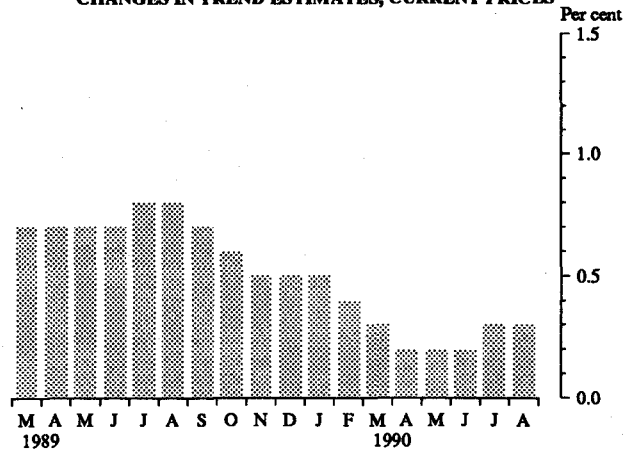
Turnover for August 1990 for retail (excluding motor vehicle dealers, service stations, etc.) and selected service establishments within the scope of the survey recovered following the fall recorded for July.

In seasonally adjusted terms, turnover rose 2.5 per cent from \$7,004 million to \$7,180 million. This follows a seasonally adjusted fall of 1.2 per cent in July and a 1.1 per cent rise in June. Growth over the past 3 months combined is 0.9 per cent compared with the preceding 3 months.

The August result has had a small overall effect on the trend series with an average growth rate for the past 3 months of 0.3 per cent compared to the 3 months growth rate of 0.2 per cent shown in the July bulletin. Average monthly growth over the past year is 0.4 per cent with the annual growth rate (August 1990 on August 1989) currently being 4.5 per cent.

In original terms, estimated retail and selected service establishment turnover rose 4.5 per cent in August to \$6,986 million. The August 1990 estimate represents a rise of 6.5 per cent over the August 1989 result.

CHART2: TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, AUSTRALIA, MONTHLY PERCENTAGE CHANGES IN TREND ESTIMATES, CURRENT PRICES



Industry Trends

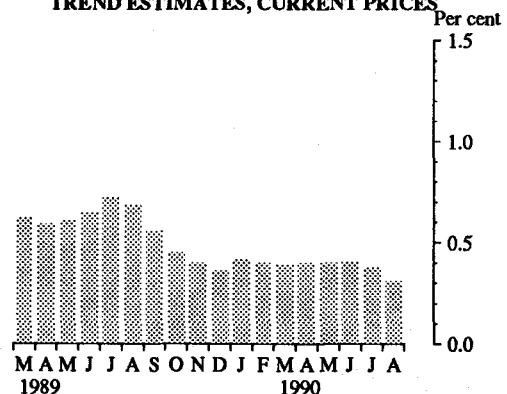
The longer term trends show that all industries, except Grocers, are showing weak growth or a decline. Grocers, however, show moderate growth.

The past 3 months indicate that Hotels and Department stores appear to be showing some recovery. In summary:

PERCENTAGE CHANGE IN TREND ESTIMATES

Industry	Average monthly increase for 3 months to August 1990	Average monthly increase for 12 months to August 1990
Grocers	0.8	0.7
Hotels, liquor stores, licensed clubs	0.6	0.3
Department and general stores	0.8	0.3
Clothing and fabrics stores	0.2	0.1

CHART3: TURNOVER OF RETAIL ESTABLISHMENTS, AUSTRALIA, MONTHLY PERCENTAGE CHANGES IN TREND ESTIMATES, CURRENT PRICES



Analysis of the "retail only" industries in total shows growth averaging 0.4 per cent per month over the last 3 months. Over the past year (August 1990 over August 1989) the retail industries have grown by 5.0 per cent, which is 0.5 percentage points higher than the all industries growth rate over the same period.

State Trends

Victoria continues a decline in retail trade averaging -0.3 per cent over the past 3 months. There has been virtually no growth over the past year.

Queensland is showing no growth in retail turnover over the past 3 months compared to an average monthly growth of 0.4 per cent over the past year.

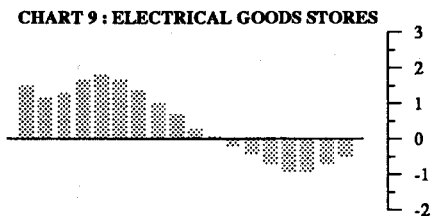
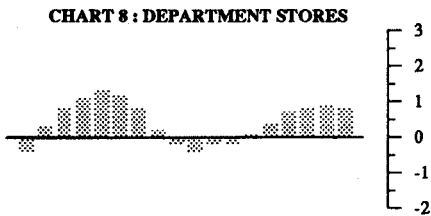
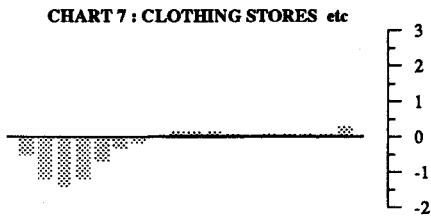
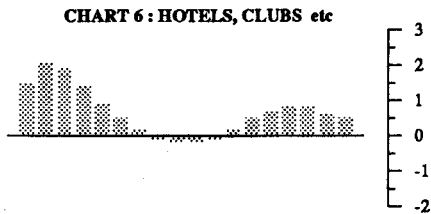
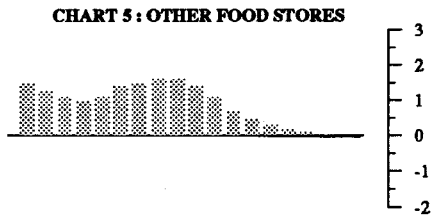
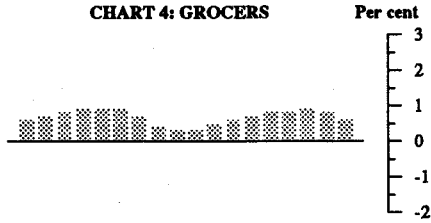
South Australia is exhibiting very weak growth averaging 0.1 per cent for the 3 months to August.

The remaining States/Territories are showing weak to moderate growth rates.

NOTE: Explanatory Notes are at the back of this publication.

TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, AUSTRALIA

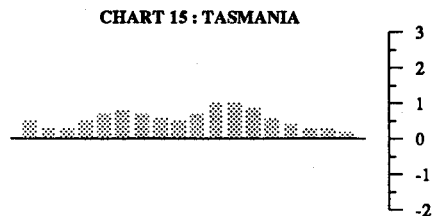
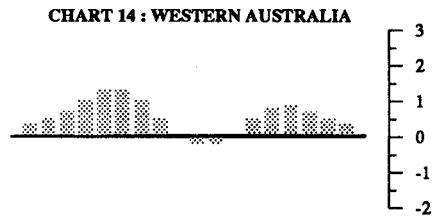
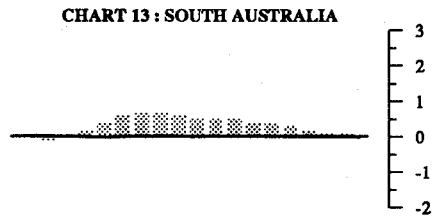
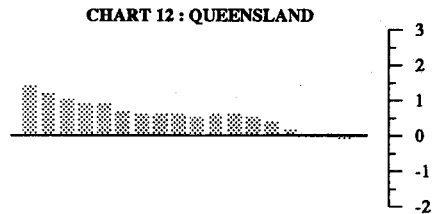
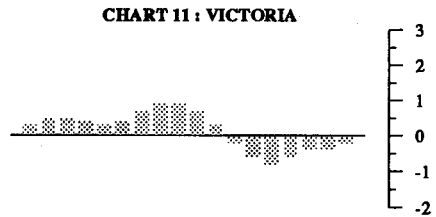
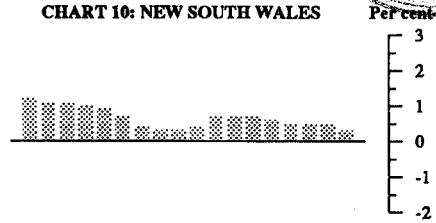
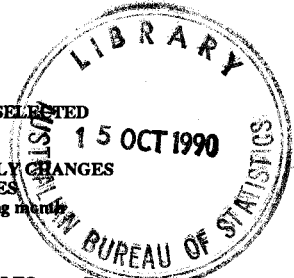
TREND ESTIMATES, MONTHLY CHANGES CURRENT PRICES, SELECTED INDUSTRIES
 Percentage change from preceding month



M A M J J A S O N D J F M A M J J A
 1989 1990

TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS

TREND ESTIMATES, MONTHLY CHANGES CURRENT PRICES, STATES
 Percentage change from preceding month



M A M J J A S O N D J F M A M J J A
 1989 1990

TABLE 1. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, AUSTRALIA (a)

Month	Original		Seasonally adjusted		Trend estimates (b)			
	\$m	% change from preceding month	% change from corresponding month of previous year	\$m	% change from preceding month	% change from corresponding month of previous year		
1989 —								
June	6,547.2	0.7	11.5	6,741.1	3.1	6,691.1	0.7	10.3
July	6,440.6	-1.6	10.1	6,787.5	0.7	6,744.6	0.8	10.5
August	6,559.2	1.8	11.6	6,770.9	-0.2	6,796.4	0.8	10.5
September	6,729.2	2.6	10.3	6,878.9	1.6	6,841.6	0.7	10.4
October	6,722.0	-0.1	8.7	6,816.4	-0.9	6,879.9	0.6	10.0
November	7,198.5	7.1	10.7	6,944.2	1.9	6,913.0	0.5	9.4
December	9,364.9	30.1	6.6	6,940.7	-0.1	6,944.2	0.5	8.7
1990 —								
January	6,681.7	-28.7	8.9	6,981.4	0.6	6,976.4	0.5	8.2
February	6,153.7	-7.9	8.3	7,007.1	0.4	7,001.3	0.4	7.7
March	6,914.1	12.4	7.0	6,993.1	-0.2	7,019.0	0.3	7.2
April	6,617.6	-4.3	6.5	7,083.5	1.3	7,033.4	0.2	6.7
May	7,014.9	6.0	7.9	7,014.1	-1.0	7,048.7	0.2	6.1
June	6,873.2	-2.0	5.0	7,092.3	1.1	7,066.3	0.2	5.6
July	6,687.2	-2.7	3.8	7,003.8	-1.2	7,084.5	0.3	5.0
August	6,986.3	4.5	6.5	7,180.4	2.5	7,102.3	0.3	4.5
Standard error (c) of								
Latest month	59.0							
Change from previous month	19.9	0.3						

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Subject to revision — see from paragraph 21 of Explanatory Notes. (c) See paragraphs 9 to 13 of Explanatory Notes.

TABLE 2. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
QUARTERLY ESTIMATES, AUSTRALIA (a)

Quarter	Original		Seasonally adjusted			
	\$m	% change from preceding quarter	% change from corresponding quarter of previous year	\$m	% change from preceding quarter	% change from corresponding quarter of previous year
AT CURRENT PRICES						
1989 —						
June	19,264.2	5.4	10.3	19,858.7	1.3	10.0
September	19,729.0	2.4	10.7	20,437.3	2.9	11.1
December	23,285.4	18.0	8.4	20,701.3	1.3	9.5
1990 —						
March	19,749.5	-15.2	8.1	20,981.6	1.4	7.0
June	20,505.7	3.8	6.4	21,189.9	1.0	6.7
AT CONSTANT (AVERAGE 1984-85) PRICES						
1989 —						
June	14,147.2	3.4	3.8	14,596.7	-0.3	3.5
September	14,279.9	0.9	4.6	14,805.2	1.4	5.0
December	16,694.6	16.9	2.7	14,853.9	0.3	3.7
1990 —						
March	14,014.2	-16.1	2.4	14,841.4	-0.1	1.4
June	14,300.4	2.0	1.1	14,796.0	-0.3	1.4

(a) Excludes motor vehicle dealers, petrol stations, etc.

TABLE 3. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, MONTHLY ESTIMATES BY INDUSTRY, AT CURRENT PRICES, AUSTRALIA (a)

Month	Grocers, confectioners, tobacconists		Hotels, liquor stores, licensed clubs		Cafes and restaurants		Clothing and fabrics stores		Department & general stores		Domestic hardware stores, jewellers		Electrical goods stores		Furniture stores		Floor coverings stores		Pharmacies		Newsagents		Other stores		Total
	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and restaurants	Clothing and fabrics stores	Department & general stores	Domestic hardware stores, jewellers	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	Newsagents	Other stores	Total											
1989 —	ORIGINAL \$ million																								
June	1,818.2	177.7	410.3	849.6	299.4	533.5	773.5	102.8	187.3	404.6	144.4	58.3	245.5	235.0	307.3	6,547.2									
July	1,810.0	168.9	409.3	856.5	313.2	508.0	703.5	92.1	190.7	400.6	134.4	61.4	247.2	237.4	307.4	6,440.6									
August	1,892.0	169.7	415.0	862.1	309.1	476.4	712.1	80.7	193.7	412.8	140.6	62.6	263.3	251.1	318.3	6,559.2									
September	1,889.4	168.2	430.4	912.0	321.6	499.9	745.2	89.9	203.2	409.5	142.7	62.8	268.1	244.3	342.2	6,729.2									
October	1,841.4	164.7	458.1	917.2	319.1	508.0	739.3	90.2	216.4	411.9	151.2	58.5	264.7	244.5	336.8	6,722.0									
November	1,928.8	167.3	457.6	950.9	327.2	549.2	908.4	95.8	257.0	437.0	165.0	66.8	280.6	249.0	357.9	7,198.5									
December	2,249.0	213.8	500.8	1,193.3	412.0	727.3	1,544.1	116.6	408.8	590.5	176.0	61.5	350.1	300.7	520.7	9,364.9									
1990 —	ORIGINAL \$ million																								
January	1,878.3	172.3	492.1	944.5	341.8	459.0	667.2	97.7	196.5	400.8	141.1	49.5	263.6	254.2	323.1	6,681.7									
February	1,814.1	166.3	429.2	849.6	308.6	385.7	576.4	74.5	179.1	374.9	130.6	53.3	244.3	262.4	304.8	6,153.7									
March	2,034.1	188.0	466.6	932.8	348.9	461.3	715.1	87.5	196.8	405.9	146.0	59.5	279.4	256.9	335.3	6,914.1									
April	1,895.2	172.7	452.9	896.5	323.3	493.4	731.8	95.0	174.8	387.5	131.2	52.2	268.9	228.2	314.0	6,617.6									
May	1,982.8	185.1	451.8	884.6	324.0	557.6	801.9	100.0	191.9	441.0	151.1	62.5	296.0	252.0	332.6	7,014.9									
June	1,963.1	194.5	457.8	876.0	308.1	518.5	821.1	103.6	173.3	423.3	148.3	62.7	272.3	237.0	313.7	6,873.2									
July	1,914.1	186.5	454.9	889.8	319.8	503.2	700.6	91.6	172.7	404.5	151.6	56.3	276.0	245.1	320.7	6,687.2									
August	2,066.0	191.2	460.4	905.9	320.9	492.3	749.0	84.6	181.2	423.3	146.5	62.5	299.4	264.3	339.0	6,986.3									
Standard error (b) of																									
Level	19.8	12.5	22.7	26.1	18.8	19.0	0.0	4.8	7.7	13.8	7.0	3.4	14.4	14.4	16.6	59.0									
Change	7.1	1.9	4.1	6.9	8.7	8.7	0.0	1.1	2.7	3.9	2.6	1.9	4.1	4.7	7.3	19.9									
TREND ESTIMATES (c) \$ million																									
1989 —																									
June	1,851.4	171.3	417.9	907.8	n.p.	516.1	779.2	89.6	234.7	402.8	141.9	59.5	253.3	250.7	n.p.	6,691.1									
July	1,868.6	170.0	422.7	916.1	n.p.	512.4	789.4	90.9	231.9	410.1	141.3	59.7	256.5	252.0	n.p.	6,744.6									
August	1,884.5	168.5	428.5	920.9	n.p.	511.1	798.7	91.8	228.1	417.1	141.5	59.5	260.2	252.1	n.p.	6,796.4									
September	1,897.0	167.9	435.1	922.4	n.p.	510.1	805.4	92.5	223.6	422.8	142.7	59.1	263.8	251.1	n.p.	6,841.6									
October	1,905.4	169.0	442.2	921.5	n.p.	509.9	807.4	93.2	219.4	427.1	144.9	58.9	267.3	250.3	n.p.	6,879.9									
November	1,911.4	172.1	449.2	919.4	n.p.	510.8	806.1	94.1	216.0	430.0	147.2	58.9	270.4	250.1	n.p.	6,913.0									
December	1,917.7	176.2	455.3	917.7	n.p.	511.7	803.2	95.0	213.1	431.4	148.6	58.7	273.9	250.7	n.p.	6,944.2									
1990 —																									
January	1,927.4	180.2	460.2	917.2	n.p.	512.8	801.5	95.6	210.7	431.8	149.4	58.9	277.6	251.8	n.p.	6,976.4									
February	1,939.4	183.5	463.6	918.8	n.p.	513.3	799.9	95.3	209.6	431.1	149.8	59.4	281.4	253.0	n.p.	7,001.3									
March	1,953.6	185.6	465.7	923.3	n.p.	513.5	800.3	94.5	209.5	429.3	150.0	59.7	284.6	254.0	n.p.	7,019.0									
April	1,969.3	186.7	467.1	930.2	n.p.	514.2	803.2	93.7	209.9	426.5	150.0	59.8	286.9	254.6	n.p.	7,033.4									
May	1,985.9	187.1	468.1	937.9	n.p.	514.9	808.6	93.4	210.1	422.8	149.9	59.5	288.4	254.9	n.p.	7,048.7									
June	2,003.2	187.4	468.6	945.0	n.p.	515.6	815.2	93.4	210.0	419.2	149.5	59.2	289.2	255.5	n.p.	7,066.3									
July	2,020.0	187.6	468.6	951.1	n.p.	515.9	822.4	93.5	209.5	416.1	148.7	58.7	289.6	256.4	n.p.	7,084.5									
August	2,031.5	187.6	468.6	956.1	n.p.	517.5	828.7	93.9	209.3	414.0	147.7	58.2	289.6	257.5	n.p.	7,102.3									

See footnotes at end of table.

TABLE 3. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES BY INDUSTRY, AT CURRENT PRICES, AUSTRALIA (a) —continued

Month	Grocers, confect- ioners, tobac- conists	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total
1989 —																
June	0.9	-0.4	1.0	1.4	n.p.	-1.2	1.1	1.9	-0.7	1.7	-0.4	1.0	1.1	0.9	n.p.	0.7
July	0.9	-0.8	1.1	0.9	n.p.	-0.7	1.3	1.5	-1.2	1.8	-0.4	0.3	1.3	0.5	n.p.	0.8
August	0.9	-0.9	1.4	0.5	n.p.	-0.3	1.2	1.0	-1.6	1.7	-0.3	-0.3	1.4	0.0	n.p.	0.8
September	0.7	-0.4	1.5	0.2	n.p.	-0.2	0.8	0.8	-2.0	1.4	0.8	-0.7	1.4	-0.4	n.p.	0.7
October	0.4	0.7	1.6	-0.1	n.p.	0.0	0.2	0.8	-1.9	1.0	1.5	-0.3	1.3	-0.3	n.p.	0.6
November	0.3	1.8	1.6	-0.2	n.p.	0.2	-0.2	1.0	-1.5	0.7	1.6	0.0	1.2	-0.1	n.p.	0.5
December	0.3	2.4	1.4	-0.2	n.p.	0.2	-0.4	1.0	-1.3	0.3	1.0	-0.3	1.3	0.2	n.p.	0.5
1990 —																
January	0.5	2.3	1.1	-0.1	n.p.	0.2	-0.2	0.6	-1.1	0.1	0.5	0.3	1.4	0.4	n.p.	0.5
February	0.6	1.8	0.7	0.2	n.p.	0.1	-0.2	-0.3	-0.5	-0.2	0.3	0.8	1.4	0.5	n.p.	0.4
March	0.7	1.1	0.5	0.5	n.p.	0.0	0.1	-0.8	0.0	-0.4	0.1	0.5	1.1	0.4	n.p.	0.3
April	0.8	0.6	0.3	0.7	n.p.	0.1	0.4	-0.8	0.2	-0.7	0.0	0.2	0.8	0.2	n.p.	0.2
May	0.8	0.2	0.2	0.8	n.p.	0.1	0.7	-0.3	0.1	-0.9	-0.1	-0.5	0.5	0.1	n.p.	0.2
June	0.9	0.2	0.1	0.8	n.p.	0.1	0.8	0.0	0.0	-0.9	-0.3	-0.5	0.3	0.2	n.p.	0.2
July	0.8	0.1	0.0	0.6	n.p.	0.1	0.9	0.1	-0.2	-0.7	-0.5	-0.8	0.1	0.4	n.p.	0.3
August	0.6	0.0	0.0	0.5	n.p.	0.3	0.8	0.4	-0.1	-0.5	-0.7	-0.9	0.0	0.4	n.p.	0.3
TREND ESTIMATES (c) % change from corresponding month of previous year																
1989 —																
June	12.0	18.5	7.0	8.9	n.p.	0.3	5.3	7.8	13.8	15.0	1.3	1.0	14.9	18.9	n.p.	10.3
July	12.1	15.1	7.9	9.8	n.p.	-1.3	5.9	9.9	11.9	17.7	1.4	-0.2	13.9	19.7	n.p.	10.5
August	12.0	11.3	9.5	10.6	n.p.	-2.3	6.1	11.0	9.8	19.9	2.5	-2.1	13.5	19.3	n.p.	10.5
September	11.4	8.3	11.5	11.3	n.p.	-3.1	5.9	11.7	7.1	20.9	4.4	-4.4	13.5	17.3	n.p.	10.4
October	10.5	6.6	13.6	11.7	n.p.	-3.7	5.3	12.6	4.1	20.7	6.9	-5.2	14.0	14.8	n.p.	10.0
November	9.4	6.6	15.3	11.8	n.p.	-4.2	4.5	13.8	1.0	19.5	9.0	-4.5	14.5	12.1	n.p.	9.4
December	8.4	7.6	16.4	11.3	n.p.	-4.7	4.1	15.3	-2.6	17.5	9.4	-3.6	15.1	9.5	n.p.	8.7
1990 —																
January	7.9	8.6	16.7	10.3	n.p.	-4.9	4.3	16.6	-6.2	15.3	8.7	-1.7	15.5	7.5	n.p.	8.2
February	7.8	9.0	16.4	8.9	n.p.	-4.8	4.6	15.9	-8.9	13.2	7.5	0.7	15.9	5.8	n.p.	7.7
March	8.0	9.0	15.4	7.3	n.p.	-4.2	4.9	13.2	-10.5	11.1	6.3	2.2	15.9	4.6	n.p.	7.2
April	8.1	8.7	14.2	5.8	n.p.	-3.0	5.0	9.5	-11.2	9.1	5.6	2.4	15.6	3.5	n.p.	6.7
May	8.2	8.8	13.2	4.8	n.p.	-1.4	4.9	6.3	-11.1	6.7	5.3	1.0	15.1	2.6	n.p.	6.1
June	8.2	9.4	12.1	4.1	n.p.	-0.1	4.6	4.2	-10.5	4.1	5.4	-0.5	14.2	1.9	n.p.	5.6
July	8.1	10.4	10.9	3.8	n.p.	0.7	4.2	2.9	-9.7	1.5	5.2	-1.7	12.9	1.7	n.p.	5.0
August	7.8	11.3	9.4	3.8	n.p.	1.3	3.8	2.3	-8.2	-0.7	4.4	-2.2	11.3	2.1	n.p.	4.5

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) The standard error of the estimates for the latest month and of the latest month from the preceding month — see paragraphs 9 to 13 of Explanatory Notes. (c) Subject to revision — see from paragraph 21 of Explanatory Notes.

TABLE 4. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, QUARTERLY ESTIMATES BY INDUSTRY, AT CONSTANT (AVERAGE 1984-85) PRICES, AUSTRALIA (a)

Quarter	Grocers, confectioners, tobacconists		Hotels, liquor stores, and licensed clubs		Cafés and restaurants		Clothing and fabrics stores		Department & general stores		Domestic hardware stores, jewellery stores		Electrical goods stores		Furniture stores		Floor coverings stores		Pharmacies		Newsagents		Other stores		Total	
	Butchers	Other food stores	Other liquor stores	Hotels, liquor stores, and licensed clubs	Cafés and restaurants	Clothing and fabrics stores	Department & general stores	Domestic hardware stores, jewellery stores	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	Newsagents	Other stores	Total											
ORIGINAL \$ million																										
1989 —																										
June	3,963.9	383.7	792.4	1,830.1	640.0	1,115.7	1,626.0	202.8	474.4	998.9	307.9	119.5	552.9	477.9	661.0	14,147.2										
September	4,043.4	377.0	801.9	1,861.5	678.6	1,042.0	1,577.8	191.7	456.2	1,034.5	306.7	126.2	584.6	495.6	702.3	14,279.9										
December	4,305.1	405.5	921.5	2,131.3	753.8	1,225.5	2,294.6	218.4	680.9	1,209.0	353.8	123.3	668.9	533.0	870.1	16,694.6										
1990 —																										
March	4,061.8	384.6	912.4	1,863.5	697.5	896.4	1,399.7	187.7	447.1	997.0	293.8	105.0	576.7	507.8	683.2	14,014.2										
June	4,049.6	395.0	864.4	1,788.8	653.8	1,056.4	1,655.6	213.7	414.7	1,058.0	294.2	114.0	608.7	463.6	669.8	14,300.4										
SEASONALLY ADJUSTED ESTIMATES \$ million																										
1989 —																										
June	4,047.5	393.4	817.7	1,939.9	n.p.	1,114.9	1,694.5	191.9	553.7	1,013.4	324.9	123.7	573.3	503.1	n.p.	14,596.7										
September	4,111.4	378.7	821.4	1,952.9	n.p.	1,069.1	1,745.6	198.8	534.5	1,060.2	309.0	124.2	586.2	513.9	n.p.	14,805.2										
December	4,107.0	378.9	880.1	1,919.8	n.p.	1,054.8	1,749.9	205.7	496.8	1,079.5	319.5	113.3	608.6	497.5	n.p.	14,853.9										
1990 —																										
March	4,105.7	399.9	908.4	1,880.7	n.p.	1,049.6	1,696.9	204.6	494.4	1,092.1	312.7	115.3	612.8	507.6	n.p.	14,841.4										
June	4,136.8	405.4	892.5	1,894.1	n.p.	1,054.0	1,726.8	202.2	483.6	1,073.0	309.0	117.7	631.5	487.7	n.p.	14,796.0										
% change from preceding quarter																										
1989 —																										
June	-1.2	-0.7	-1.2	3.5	n.p.	-6.2	-1.2	3.6	1.1	4.7	6.0	6.5	2.3	3.7	n.p.	-0.3										
September	1.6	-3.7	0.4	0.7	n.p.	-4.1	3.0	3.6	-3.5	4.6	-4.9	0.4	2.3	2.1	n.p.	1.4										
December	-0.1	0.1	7.2	-1.7	n.p.	-1.3	0.2	3.5	-7.1	1.8	3.4	-8.8	3.8	-3.2	n.p.	0.3										
1990 —																										
March	0.0	5.5	3.2	-2.0	n.p.	-0.5	-3.0	-0.5	-0.5	1.2	-2.1	1.7	0.7	2.0	n.p.	-0.1										
June	0.8	1.4	-1.7	0.7	n.p.	0.4	1.8	-1.2	-2.2	-1.7	-1.2	2.1	3.1	-3.9	n.p.	-0.3										
% change from corresponding quarter of previous year																										
1989 —																										
June	2.6	11.9	-5.0	3.0	n.p.	-1.5	-1.7	-2.2	13.0	11.9	-0.9	-0.2	13.1	13.3	n.p.	3.5										
September	4.6	1.5	-2.4	4.9	n.p.	-9.1	1.6	7.0	8.0	18.5	-2.3	-4.7	10.2	19.6	n.p.	5.0										
December	2.2	-1.4	6.8	4.5	n.p.	-6.3	-0.2	10.1	-1.4	18.2	2.6	-13.0	11.2	9.1	n.p.	3.7										
1990 —																										
March	0.3	1.0	9.8	0.4	n.p.	-11.7	-1.1	10.5	-9.8	12.8	2.1	-0.7	9.4	4.6	n.p.	1.4										
June	2.2	3.0	9.2	-2.4	n.p.	-5.5	1.9	5.4	-12.7	5.9	-4.9	-4.8	10.2	-3.1	n.p.	1.4										

(a) Excludes motor vehicle dealers, petrol stations, etc.

TABLE 5. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, AUSTRALIA, STATES AND TERRITORIES (a)

Month	New South Wales	Victoria	Queensland	ORIGINAL				Northern Territory	Australian Capital Territory	Australia
				South Australia	Western Australia	Tasmania	ACT			
\$ million										
1989 —										
June	2,331.0	1,657.5	1,129.2	509.7	578.5	161.6	67.6	112.0	6,547.2	
July	2,298.6	1,624.5	1,106.2	508.1	562.5	154.8	69.7	116.1	6,440.6	
August	2,323.2	1,659.7	1,122.3	521.7	580.0	163.4	72.8	116.1	6,559.2	
September	2,404.8	1,689.1	1,167.3	518.2	604.0	163.4	67.8	114.7	6,729.2	
October	2,398.8	1,706.8	1,150.8	519.5	598.3	163.0	66.4	118.3	6,722.0	
November	2,586.6	1,824.1	1,195.0	577.1	647.2	177.5	66.5	124.6	7,198.5	
December	3,334.5	2,494.2	1,537.3	711.3	821.0	231.4	78.0	157.2	9,364.9	
1990 —										
January	2,357.6	1,724.0	1,152.8	523.5	587.2	164.4	59.5	112.7	6,681.7	
February	2,197.8	1,581.9	1,038.9	473.2	539.7	158.3	57.9	105.9	6,153.7	
March	2,476.0	1,745.8	1,162.1	546.3	618.4	179.2	66.1	120.2	6,914.1	
April	2,375.7	1,668.1	1,097.0	529.5	596.1	167.4	65.2	118.4	6,617.6	
May	2,519.0	1,742.0	1,188.8	559.7	624.7	180.1	72.5	128.1	7,014.9	
June	2,456.2	1,685.9	1,192.7	541.9	620.6	173.1	74.5	128.2	6,873.2	
July	2,424.5	1,621.7	1,147.1	529.5	594.0	166.2	79.0	125.2	6,687.2	
August	2,523.5	1,692.3	1,217.2	553.1	616.1	176.6	80.5	127.0	6,986.3	
Standard error (b) of Level	43.4	29.1	22.6	10.1	10.3	3.8	2.6	2.7	59.0	
Change	11.8	10.9	9.8	4.5	3.9	2.1	0.8	1.4	19.9	
TREND ESTIMATES (c)										
\$ million										
1989 —										
June	2,389.2	1,717.3	1,130.2	524.9	591.6	165.0	n.p.	114.5	6,691.1	
July	2,411.6	1,722.0	1,140.0	527.0	599.2	166.2	n.p.	115.9	6,744.6	
August	2,428.6	1,729.4	1,148.3	530.3	607.2	167.6	n.p.	117.3	6,796.4	
September	2,438.5	1,741.6	1,155.1	534.1	613.2	168.8	n.p.	118.6	6,841.6	
October	2,445.2	1,757.3	1,161.7	537.8	616.0	169.8	n.p.	119.6	6,879.9	
November	2,453.0	1,773.5	1,168.3	541.1	616.2	170.7	n.p.	120.5	6,913.0	
December	2,463.9	1,785.5	1,174.4	543.8	614.8	171.9	n.p.	121.0	6,944.2	
1990 —										
January	2,480.0	1,790.8	1,181.3	546.6	613.8	173.6	n.p.	121.7	6,976.4	
February	2,496.7	1,787.5	1,188.5	549.2	614.5	175.3	n.p.	122.6	7,001.3	
March	2,513.8	1,776.4	1,195.0	551.5	617.5	176.8	n.p.	123.6	7,019.0	
April	2,529.9	1,762.8	1,199.6	553.5	622.4	177.9	n.p.	124.8	7,033.4	
May	2,543.4	1,751.4	1,201.4	555.4	627.9	178.7	n.p.	126.1	7,048.7	
June	2,555.6	1,743.6	1,201.8	556.7	632.5	179.3	n.p.	127.2	7,066.3	
July	2,567.3	1,737.4	1,201.4	557.4	635.9	179.9	n.p.	128.0	7,084.5	
August	2,575.5	1,733.9	1,200.2	558.1	638.2	180.3	n.p.	128.7	7,102.3	

See footnotes at end of table.

TABLE 6. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
QUARTERLY ESTIMATES, AT CONSTANT (AVERAGE 1984-85) PRICES, AUSTRALIA, STATES AND TERRITORIES (a)

Quarter	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
ORIGINAL \$ million									
1989 —									
June	5,089.3	3,597.1	2,356.0	1,124.5	1,242.4	347.8	139.6	250.5	14,147.2
September	5,133.8	3,557.9	2,444.7	1,124.0	1,260.5	348.1	152.7	258.3	14,279.9
December	6,036.9	4,254.8	2,775.1	1,304.5	1,472.7	406.7	149.9	294.0	16,694.6
1990 —									
March	5,025.3	3,548.0	2,378.5	1,107.7	1,223.0	354.6	131.1	245.9	14,014.2
June	5,175.2	3,499.3	2,425.0	1,152.4	1,268.2	363.3	148.8	268.2	14,300.4
SEASONALLY ADJUSTED ESTIMATES \$ million									
1989 —									
June	5,284.9	3,734.4	2,458.9	1,155.0	1,277.3	359.3	n.p.	255.7	14,596.7
September	5,317.7	3,732.9	2,480.4	1,160.1	1,316.6	364.9	n.p.	263.4	14,805.2
December	5,342.3	3,751.4	2,497.2	1,172.4	1,322.4	363.6	n.p.	264.5	14,853.9
1990 —									
March	5,344.9	3,736.4	2,526.1	1,175.2	1,282.4	370.9	n.p.	267.2	14,841.4
June	5,376.4	3,634.7	2,531.6	1,184.5	1,303.8	375.2	n.p.	273.7	14,796.0
% change from preceding quarter									
1989 —									
June	1.7	-0.5	1.9	-1.8	-0.4	-1.4	n.p.	-2.5	-0.3
September	0.6	0.0	0.9	0.4	3.1	1.5	n.p.	3.0	1.4
December	0.5	0.5	0.7	1.1	0.4	-0.3	n.p.	0.4	0.3
1990 —									
March	0.0	-0.4	1.2	0.2	-3.0	2.0	n.p.	1.0	-0.1
June	0.6	-2.7	0.2	0.8	1.7	1.2	n.p.	2.5	-0.3
% change from corresponding quarter of previous year									
1989 —									
June	7.6	-0.4	5.5	2.3	3.3	4.1	n.p.	-3.9	3.5
September	8.9	0.5	3.3	1.8	9.8	5.1	n.p.	2.1	5.0
December	5.9	0.0	5.1	0.2	5.9	3.5	n.p.	0.3	3.7
1990 —									
March	2.8	-0.5	4.6	0.0	0.0	1.8	n.p.	1.9	1.4
June	1.7	-2.7	3.0	2.6	2.1	4.4	n.p.	7.1	1.4

(a) Excludes motor vehicle dealers, petrol stations, etc.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)

Month	NEW SOUTH WALES										Total				
	Grocers, confectioners, tobacco-	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores		Pharma- cies	News- agents	Other stores	
1989 —	ORIGINAL \$ million														
June	541.1	149.2	384.9	120.9	176.1	270.4	37.3	69.0	134.0	52.8	17.4	96.4	96.1	115.7	2,331.0
July	543.3	148.7	389.8	118.0	170.5	263.5	33.3	66.1	127.5	50.2	18.7	97.0	98.9	105.5	2,298.6
August	563.1	151.7	394.8	118.5	151.5	253.3	30.4	70.7	129.0	51.3	19.0	104.9	100.4	116.4	2,323.2
September	568.4	152.4	412.5	120.8	169.1	268.9	33.4	71.6	130.6	56.4	19.8	109.1	99.6	124.2	2,404.8
October	548.0	159.6	413.3	125.2	167.0	264.8	33.8	76.3	132.2	59.9	18.6	109.6	99.2	124.3	2,398.8
November	578.1	161.8	419.8	129.6	191.9	324.6	34.2	100.8	141.6	66.7	20.8	113.6	98.6	136.4	2,586.6
December	690.7	179.3	518.8	157.0	254.8	553.4	44.1	152.7	189.8	68.1	19.6	135.3	104.3	180.5	3,334.5
1990 —	ORIGINAL \$ million														
January	551.9	188.3	424.2	132.7	158.5	234.5	35.8	60.7	129.3	51.5	14.3	105.6	88.3	113.1	2,357.6
February	548.2	164.0	379.2	123.4	133.3	198.9	27.1	57.6	118.1	48.0	14.2	99.5	102.5	115.1	2,197.8
March	598.0	174.6	426.4	129.6	165.3	255.0	32.1	65.8	131.7	54.6	19.5	113.0	110.0	124.9	2,476.0
April	558.2	173.5	419.8	125.2	175.1	256.5	34.1	56.1	124.1	49.7	17.0	112.3	92.6	111.9	2,375.7
May	583.9	172.8	418.8	121.6	204.0	283.9	35.7	62.7	142.3	56.4	21.2	122.0	102.9	116.3	2,519.0
June	594.5	171.0	415.5	115.2	172.1	284.4	39.7	57.2	130.2	55.1	22.7	112.7	92.5	111.6	2,456.2
July	584.3	167.5	434.3	114.2	171.0	254.0	34.2	55.2	129.4	54.1	18.4	114.9	102.1	111.3	2,424.5
August	633.4	169.8	437.6	120.5	166.8	263.9	32.7	59.0	134.2	51.3	21.1	122.1	113.6	116.5	2,523.5
Standard error (b) of Level	12.2	8.9	16.2	22.7	13.0	0.0	4.4	6.4	8.4	4.4	2.3	11.1	10.9	10.4	43.4
Change	2.0	1.1	2.8	5.5	5.5	0.0	0.8	1.3	2.8	0.8	1.4	3.6	2.8	3.8	11.8
1990 —	TREND ESTIMATES (c)														
	\$ million														
March	581.7	176.3	418.1	n.p.	180.7	283.4	34.7	67.8	137.8	55.4	19.7	115.6	99.9	n.p.	2,513.8
April	586.5	177.1	428.2	n.p.	180.4	285.5	34.8	68.6	137.5	55.4	20.0	117.5	101.6	n.p.	2,529.9
May	593.6	176.7	439.5	n.p.	180.1	288.1	35.0	70.0	136.6	55.3	20.1	118.9	102.9	n.p.	2,543.4
June	602.5	175.7	450.8	n.p.	179.8	290.6	35.5	71.2	135.4	55.1	19.9	119.6	104.0	n.p.	2,555.6
July	612.0	174.3	460.9	n.p.	179.8	293.0	35.9	72.2	134.5	54.7	19.6	119.9	105.3	n.p.	2,567.3
August	619.2	173.1	470.3	n.p.	180.0	295.0	36.4	72.9	134.0	54.2	19.2	119.7	106.7	n.p.	2,575.5
1990 —	% change from preceding month														
March	0.5	1.9	1.8	n.p.	0.3	0.4	0.0	-0.4	0.0	-0.7	3.1	1.8	1.8	n.p.	0.7
April	0.8	1.9	2.4	n.p.	-0.2	0.7	0.3	1.2	-0.2	0.0	1.5	1.6	1.7	n.p.	0.6
May	1.2	1.7	-0.2	n.p.	-0.2	0.9	0.6	2.0	-0.7	-0.2	0.5	1.2	1.3	n.p.	0.5
June	1.5	1.7	2.6	n.p.	-0.2	0.9	1.4	1.7	-0.9	-0.4	-1.0	0.6	1.1	n.p.	0.5
July	1.6	1.4	2.2	n.p.	0.0	0.8	1.1	1.4	-0.7	-0.7	-1.5	0.3	1.3	n.p.	0.5
August	1.2	0.9	2.0	n.p.	0.1	0.7	1.4	1.0	-0.4	-0.9	-2.0	-0.2	1.3	n.p.	0.3

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a) —continued

Month	Grocers, confect- ioners, tobacc-	Butchers	Other food stores	Hôtels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total
	VICTORIA															
ORIGINAL \$ million																
1989 —																
June	511.7	45.6	101.5	154.4	81.7	146.2	189.8	24.6	60.0	97.7	39.5	15.9	56.9	56.8	75.2	1,657.5
July	509.1	38.1	100.0	153.1	87.9	136.8	157.3	22.0	68.7	101.9	35.2	18.4	58.6	55.6	81.6	1,624.5
August	541.3	38.7	95.8	155.6	85.1	131.0	163.2	18.5	61.8	108.2	38.6	17.4	62.2	61.8	80.4	1,659.7
September	524.9	35.9	103.4	173.6	90.8	132.0	169.5	19.3	68.4	110.9	36.8	16.1	63.1	60.5	83.9	1,689.1
October	517.5	35.0	120.0	173.0	88.9	135.9	172.5	20.3	72.5	110.5	39.9	14.5	61.1	60.8	84.3	1,706.8
November	547.4	34.0	119.2	185.3	89.2	144.6	208.8	22.4	76.5	116.2	44.7	18.6	65.1	63.1	89.0	1,824.1
December	645.2	53.8	126.6	248.0	116.0	209.9	390.8	28.1	132.2	157.9	42.1	16.9	85.5	89.2	152.0	2,494.2
1990 —																
January	544.5	45.1	114.1	185.8	88.9	118.2	151.3	21.8	71.4	106.5	34.4	12.5	65.7	76.2	87.8	1,724.0
February	515.0	41.6	101.1	169.0	85.4	106.2	135.3	18.8	61.1	100.2	30.4	14.6	59.7	69.6	73.6	1,581.9
March	583.2	50.5	106.6	176.9	102.3	119.3	165.7	19.9	66.3	102.4	32.1	13.4	65.7	57.3	84.3	1,745.8
April	538.2	45.8	100.6	163.8	86.3	131.3	177.6	23.2	59.9	105.0	29.9	11.7	62.8	49.9	82.1	1,668.1
May	561.2	48.5	97.4	155.3	87.9	143.9	188.1	24.0	65.5	114.4	33.6	13.6	67.7	57.7	83.1	1,742.0
June	544.2	48.5	100.1	152.0	81.3	139.5	195.9	22.7	58.6	109.1	30.9	14.5	58.1	52.5	77.9	1,685.9
July	518.7	44.2	100.1	150.8	91.3	137.1	156.5	21.1	61.6	103.7	34.8	11.3	56.7	52.4	81.4	1,621.7
August	563.6	46.2	99.2	152.4	84.7	131.2	171.7	18.6	63.2	108.5	35.3	12.8	62.1	55.2	87.5	1,692.3
Standard error (b) of Level	13.1	7.0	10.7	8.2	9.0	8.3	0.0	1.3	3.2	9.3	4.7	2.0	4.6	6.9	10.2	29.1
Change	2.4	1.2	1.5	3.1	7.2	3.0	0.0	0.6	1.5	2.3	2.1	0.8	1.5	2.7	4.1	10.9
TREND ESTIMATES (c)																
\$ million																
1990 —																
March	556.6	48.1	105.7	174.2	n.p.	134.9	188.3	21.8	70.7	113.2	34.4	14.2	67.3	62.4	n.p.	1,776.4
April	558.3	47.6	103.8	172.5	n.p.	134.9	187.7	21.5	70.5	111.8	33.6	13.7	66.5	59.7	n.p.	1,762.8
May	559.3	46.7	102.9	170.9	n.p.	135.7	187.9	21.4	70.3	110.1	33.2	13.3	65.1	57.5	n.p.	1,751.4
June	560.2	46.1	102.5	169.2	n.p.	136.7	188.3	21.3	70.2	108.4	33.0	13.0	63.5	56.3	n.p.	1,743.6
July	560.7	45.6	102.5	167.7	n.p.	137.7	189.0	21.2	70.0	106.9	32.8	12.8	61.9	55.6	n.p.	1,737.4
August	560.9	45.2	102.7	166.2	n.p.	138.9	189.7	21.1	70.0	105.7	32.8	12.6	60.7	55.4	n.p.	1,733.9
% change from preceding month																
1990 —																
March	0.7	1.3	-2.8	-1.0	n.p.	-0.6	-0.6	-1.4	-0.6	-1.0	-3.1	-3.4	0.4	-4.0	n.p.	-0.6
April	0.3	-1.0	-1.8	-0.9	n.p.	0.0	-0.3	-1.4	-0.3	-1.2	-2.3	-3.5	-1.2	-4.3	n.p.	-0.8
May	0.2	-1.9	-0.9	-0.9	n.p.	0.6	0.1	-0.5	-0.3	-1.5	-1.2	-2.9	-2.1	-3.7	n.p.	-0.6
June	0.2	-1.3	-0.4	-1.0	n.p.	0.7	0.2	-0.5	-0.1	-1.5	-0.6	-2.3	-2.5	-2.1	n.p.	-0.4
July	0.1	-1.1	0.0	-0.9	n.p.	0.7	0.4	-0.5	-0.3	-1.4	-0.6	-1.5	-2.5	-1.2	n.p.	-0.4
August	0.0	-0.9	0.2	-0.9	n.p.	0.9	0.4	-0.5	0.0	-1.1	0.0	-1.6	-1.9	-0.4	n.p.	-0.2

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a) —continued

Month	Grocers, confectioners, tobacconists		Hotels, liquor stores, licensed clubs		Cafes and restaurants	Clothing and fabrics stores	Department & general stores	Footwear stores	Domestic hardware stores, jewelers	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	Newsagents	Other stores	Total
	Butchers	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores
QUEENSLAND																
ORIGINAL \$ million																
1989—																
June	316.9	36.5	74.0	137.6	38.9	109.4	125.7	20.6	27.6	76.4	21.0	9.4	40.5	43.1	51.5	1,129.2
July	315.0	36.7	77.7	140.6	41.9	101.3	109.5	17.6	24.1	77.0	18.0	9.0	40.1	43.4	54.5	1,106.2
August	322.7	34.9	79.4	135.1	41.8	98.7	117.0	14.6	25.2	81.9	19.5	9.7	41.3	45.3	55.4	1,122.3
September	331.6	37.3	83.1	146.2	43.9	101.9	125.8	18.3	27.0	79.1	18.9	9.8	40.3	42.9	61.2	1,167.3
October	319.4	36.0	82.5	148.7	40.8	104.8	121.0	16.9	29.8	81.4	20.1	9.4	38.5	43.5	57.9	1,150.8
November	326.3	38.1	80.7	152.1	38.5	107.6	140.0	18.8	34.0	81.8	21.4	9.9	41.1	43.9	60.7	1,195.0
December	375.7	38.4	85.8	193.5	53.7	130.2	235.3	20.9	54.2	115.9	27.7	9.6	54.9	50.3	91.1	1,537.3
1990—																
January	321.0	31.4	92.2	154.7	53.4	90.8	111.8	19.9	30.9	75.7	23.0	7.3	39.1	45.7	56.0	1,152.8
February	314.1	29.9	76.9	133.7	38.9	71.0	95.0	13.2	27.7	74.8	21.8	8.6	35.2	43.8	54.3	1,038.9
March	348.8	33.9	84.7	142.0	49.0	84.7	117.5	16.9	31.7	74.6	26.5	9.8	43.1	39.9	59.0	1,162.1
April	327.2	31.3	81.1	134.0	47.6	86.8	110.8	16.5	27.6	68.4	20.5	8.7	40.7	39.2	56.7	1,097.0
May	342.3	33.4	80.9	135.6	48.6	101.8	125.5	17.9	28.9	80.5	26.1	10.7	46.7	43.2	68.9	1,188.8
June	339.0	35.5	84.9	134.9	45.9	102.7	138.4	19.9	24.7	82.5	28.2	10.2	43.9	42.3	61.7	1,192.7
July	337.7	35.4	85.0	133.5	49.7	92.5	107.6	16.1	22.8	73.9	28.2	10.4	47.3	43.7	63.1	1,147.1
August	354.9	34.7	86.8	140.9	52.0	98.0	123.1	15.7	24.5	79.9	25.6	12.5	53.3	44.8	70.6	1,217.2
Standard error (b) of Level	6.3	4.3	9.4	7.9	8.7	8.3	0.0	1.5	2.4	4.3	2.3	1.3	6.5	5.6	7.0	22.6
Change	6.3	0.7	1.9	1.5	1.6	4.7	0.0	0.5	0.6	1.3	1.1	0.9	1.1	2.0	3.9	9.8
TREND ESTIMATES (c)																
\$ million																
1989—																
March	335.5	34.4	84.6	147.3	n.p.	99.2	129.4	18.0	33.0	80.3	25.8	9.4	43.5	42.5	n.p.	1,195.0
April	339.2	34.7	85.7	144.3	n.p.	99.8	129.4	17.7	32.5	80.0	26.4	9.6	44.0	43.3	n.p.	1,199.6
May	342.4	34.8	86.4	141.8	n.p.	99.7	129.7	17.4	31.4	79.4	26.7	10.0	44.9	44.1	n.p.	1,201.4
June	345.2	34.6	86.8	140.0	n.p.	98.8	130.0	17.1	30.1	78.7	26.9	10.3	46.1	44.7	n.p.	1,201.8
July	347.5	34.4	87.1	138.6	n.p.	97.5	130.4	16.8	28.8	77.9	26.8	10.7	47.5	45.3	n.p.	1,201.4
August	348.5	34.0	87.3	138.1	n.p.	96.4	130.8	16.5	27.7	77.1	26.7	11.1	48.7	45.7	n.p.	1,200.2
% change from preceding month																
1990—																
March	1.0	0.6	1.7	-1.9	n.p.	1.1	0.1	-1.1	0.9	-0.1	4.0	2.2	0.9	1.2	n.p.	0.5
April	1.1	0.9	1.3	-2.0	n.p.	0.6	0.0	-1.7	-1.5	-0.4	2.3	2.1	1.1	1.9	n.p.	0.4
May	0.9	0.3	0.8	-1.7	n.p.	-0.1	0.2	-1.7	-3.4	-0.8	1.1	4.2	2.0	1.8	n.p.	0.2
June	0.8	-0.6	0.5	-1.3	n.p.	-0.9	0.2	-1.7	-4.1	-0.9	0.7	3.0	2.7	1.4	n.p.	0.0
July	0.7	-0.6	0.3	-1.0	n.p.	-1.3	0.3	-1.8	-4.3	-1.0	-0.4	3.9	3.0	1.3	n.p.	0.0
August	0.3	-1.2	0.2	-0.4	n.p.	-1.1	0.3	-1.8	-3.8	-1.0	-0.4	3.7	2.5	0.9	n.p.	-0.1

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a) —continued

Month	Grocers,		Hotels,		Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total
	confect- ioners, tobacc- onists	Butchers	Other food stores	liquor stores, licensed clubs												
SOUTH AUSTRALIA																
ORIGINAL \$ million																
1989—																
June	150.1	12.3	34.8	57.8	20.9	34.8	76.5	7.3	11.1	34.0	13.0	5.1	17.5	11.4	23.1	509.7
July	150.1	12.2	33.5	57.8	24.8	33.7	73.6	6.9	10.9	33.6	13.6	5.5	17.7	11.6	22.6	508.1
August	157.2	12.7	35.0	58.3	23.7	30.8	76.0	6.0	13.6	35.4	14.3	5.5	18.7	12.3	22.2	521.7
September	153.7	12.4	37.3	58.0	21.0	34.6	75.2	6.8	13.4	30.2	14.4	5.6	19.0	11.8	25.0	518.2
October	155.2	12.5	38.1	58.9	20.8	36.0	75.7	6.8	14.8	29.1	14.1	5.5	18.5	11.2	22.3	519.5
November	161.5	13.2	39.2	66.0	25.8	36.7	102.8	7.8	16.0	30.6	15.0	5.9	21.7	12.1	22.8	577.1
December	183.3	17.2	42.4	79.9	26.2	47.6	147.0	8.6	24.1	42.2	16.8	4.9	23.9	17.8	29.5	711.3
1990—																
January	158.1	13.0	39.0	60.9	21.3	35.3	70.4	7.3	13.7	32.6	15.0	4.8	18.1	13.2	20.8	523.5
February	146.4	12.1	34.6	55.3	20.4	27.6	62.8	5.3	12.8	28.6	13.4	5.0	16.7	12.5	19.7	473.2
March	170.0	13.6	40.7	62.2	22.0	34.3	73.3	7.4	12.6	33.6	14.5	5.6	19.0	14.9	22.6	546.3
April	158.2	12.6	38.4	62.5	19.7	36.8	77.7	8.5	12.0	32.3	14.0	4.7	17.8	12.2	22.2	529.5
May	167.5	13.4	38.7	57.6	21.0	39.4	85.9	8.7	13.3	37.4	16.0	5.7	19.7	13.8	21.6	559.7
June	162.6	15.5	39.1	55.7	19.5	37.7	79.6	8.4	11.9	37.8	14.5	5.0	19.5	13.6	21.4	541.9
July	155.8	13.5	39.1	53.4	19.5	38.8	80.1	7.6	11.4	36.4	15.3	5.6	18.1	14.2	20.6	529.5
August	171.9	15.0	40.9	55.9	19.6	34.3	80.5	6.9	13.4	36.6	14.9	6.1	20.9	14.7	21.7	553.1
Standard error (b) of	3.0	2.6	4.5	3.5	3.4	3.3	0.0	0.5	1.4	3.0	1.4	0.4	3.4	1.0	2.0	10.1
Level	0.6	0.5	1.1	0.9	0.9	3.8	0.0	0.2	0.7	0.4	0.6	0.2	0.2	0.4	1.0	4.5
Change																
TREND ESTIMATES (c)																
\$ million																
1990—																
March	163.9	13.5	39.5	60.5	n.p.	36.7	83.7	7.5	14.5	34.5	15.2	5.2	19.3	13.8	n.p.	551.5
April	164.5	13.7	39.8	60.8	n.p.	37.2	83.4	7.6	14.5	35.2	15.0	5.3	19.5	13.8	n.p.	553.5
May	165.0	14.1	40.1	61.0	n.p.	37.6	83.7	7.6	14.4	35.7	14.8	5.4	19.7	13.8	n.p.	555.4
June	165.5	14.5	40.3	60.7	n.p.	38.0	84.3	7.7	14.3	35.9	14.7	5.5	19.8	14.0	n.p.	556.7
July	165.9	14.8	40.5	60.3	n.p.	38.3	85.1	7.7	14.2	36.0	14.7	5.6	19.9	14.2	n.p.	557.4
August	166.4	15.0	40.6	59.8	n.p.	38.6	85.9	7.8	14.2	36.0	14.7	5.7	20.0	14.4	n.p.	558.1
% change from preceding month																
1990—																
March	0.6	1.5	1.0	0.7	n.p.	1.4	-0.8	0.0	0.7	2.7	-0.7	0.0	0.5	-0.7	n.p.	0.4
April	0.4	1.5	0.8	0.5	n.p.	1.4	-0.4	1.3	0.0	2.0	-1.3	1.9	1.0	0.0	n.p.	0.4
May	0.3	2.9	0.8	0.3	n.p.	1.1	0.4	0.0	-0.7	1.4	-1.3	1.9	1.0	0.0	n.p.	0.3
June	0.3	2.8	0.5	-0.5	n.p.	1.1	0.7	1.3	-0.7	0.6	-0.7	1.9	0.5	1.4	n.p.	0.2
July	0.2	2.1	0.5	-0.7	n.p.	0.8	0.9	0.0	-0.7	0.3	0.0	1.8	0.5	1.4	n.p.	0.1
August	0.3	1.4	0.2	-0.8	n.p.	0.8	0.9	1.3	0.0	0.0	0.0	1.8	0.5	1.4	n.p.	0.1

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a) —continued

Month	TASMANIA											Total			
	Grocers, confect- ioners, tobacc- onists	Butchers	Other food stores	Hôtels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores		Floor cover- ings stores	Pharma- cies	News- agents
ORIGINAL \$ million															
1989 —															
June	52.4	3.4	8.0	22.2	5.4	13.3	18.2	2.9	2.3	9.4	3.5	1.5	6.1	5.1	7.7
July	50.5	3.8	8.4	21.9	5.9	10.9	15.4	2.5	2.4	9.0	3.7	1.4	6.5	4.9	7.4
August	53.5	3.9	8.5	22.7	5.6	11.7	16.7	2.4	2.9	9.5	3.7	1.6	6.8	5.8	8.0
September	54.8	4.2	8.0	22.8	5.1	12.3	17.0	2.3	2.8	8.9	3.8	1.5	5.9	5.7	8.4
October	53.3	4.2	8.7	23.7	5.0	12.5	16.9	2.3	2.8	7.9	3.6	1.6	6.4	5.8	8.5
November	56.2	4.1	8.7	25.3	4.7	13.9	20.7	2.6	3.6	9.4	4.0	1.9	6.8	6.4	9.1
December	64.3	5.4	11.8	32.4	6.7	19.0	35.0	3.4	5.7	13.2	4.1	1.4	7.1	10.0	11.8
1990 —															
January	52.7	4.2	8.9	26.2	5.6	11.8	15.8	2.6	2.5	8.5	3.1	1.5	6.2	7.1	7.8
February	51.2	4.1	9.0	23.4	5.4	11.4	14.6	2.6	2.4	8.4	3.4	1.3	5.4	8.4	7.5
March	60.1	4.4	8.6	26.5	6.4	13.9	16.2	2.7	2.8	9.3	3.3	1.7	6.5	8.9	7.9
April	55.2	3.8	8.5	24.1	5.4	13.7	17.1	2.9	2.6	8.9	3.0	1.4	5.9	7.6	7.3
May	57.4	4.3	9.1	23.9	5.4	15.3	19.2	3.1	2.6	11.6	3.7	1.7	6.5	8.2	7.9
June	56.0	3.9	9.7	23.9	5.0	14.7	18.4	3.1	2.4	9.9	3.3	1.6	6.4	8.1	6.8
July	54.3	3.9	9.4	23.4	4.9	13.1	15.5	2.7	2.3	10.0	3.4	1.7	6.9	7.9	6.8
August	59.8	4.4	9.7	22.6	4.8	13.1	17.3	2.5	2.9	10.5	3.8	2.0	7.1	8.6	7.5
Standard error (b) of															
Level	1.6	0.7	1.1	2.1	0.7	1.2	0.0	0.2	0.2	0.6	0.3	0.2	0.6	1.2	0.9
Change	0.3	0.2	0.1	1.9	0.3	0.4	0.0	0.0	0.0	0.4	0.2	0.1	0.2	0.2	0.3
TREND ESTIMATES(c) \$ million															
1990 —															
March	56.4	4.3	9.0	25.1	n.p.	13.8	18.7	2.8	2.9	10.1	3.5	1.6	6.4	8.2	n.p.
April	57.1	4.3	9.1	25.3	n.p.	14.1	18.6	2.8	2.9	10.0	3.4	1.6	6.4	8.4	n.p.
May	57.6	4.2	9.3	25.3	n.p.	14.3	18.6	2.8	2.9	9.9	3.4	1.7	6.5	8.5	n.p.
June	58.0	4.2	9.5	25.3	n.p.	14.4	18.7	2.8	2.9	9.8	3.4	1.7	6.6	8.7	n.p.
July	58.4	4.1	9.7	25.2	n.p.	14.4	18.7	2.8	2.9	9.8	3.5	1.8	6.7	8.8	n.p.
August	58.7	4.1	9.9	25.1	n.p.	14.5	18.9	2.8	2.9	9.8	3.5	1.8	6.7	8.8	n.p.
% change from preceding month															
1990 —															
March	1.1	-2.3	0.0	0.4	n.p.	2.2	-0.5	0.0	0.0	0.0	0.0	0.0	1.6	3.8	n.p.
April	1.2	0.0	1.1	0.8	n.p.	2.2	-0.5	0.0	0.0	-1.0	-2.9	0.0	0.0	2.4	n.p.
May	0.9	-2.3	2.2	0.0	n.p.	1.4	0.0	0.0	0.0	-1.0	0.0	6.3	1.6	1.2	n.p.
June	0.7	0.0	2.2	0.0	n.p.	0.7	0.5	0.0	0.0	-1.0	0.0	0.0	1.5	2.4	n.p.
July	0.7	-2.4	2.1	-0.4	n.p.	0.0	0.0	0.0	0.0	0.0	2.9	5.9	1.5	1.1	n.p.
August	0.5	0.0	2.1	-0.4	n.p.	0.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.p.

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a) — continued

Month	AUSTRALIAN CAPITAL TERRITORY											Total				
	Grocers, confectioners, tobacco conists	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores		Floor cover- ings stores	Pharma- cies	News- agents	Other stores
1989 —	ORIGINAL \$ million															
June	29.0	1.9	5.2	12.1	6.5	12.3	14.2	1.8	3.1	6.9	3.4	1.5	4.5	4.1	5.4	112.0
July	29.9	2.1	5.8	12.7	7.4	12.9	15.8	1.4	3.0	6.2	2.8	1.3	4.6	4.2	6.0	116.1
August	31.1	2.5	6.0	12.9	7.2	11.3	14.2	1.4	3.0	6.3	2.8	1.6	5.1	4.8	6.0	116.1
September	31.8	2.2	6.5	13.0	6.6	10.2	12.7	1.5	3.6	6.8	2.7	1.2	4.7	4.5	6.9	114.7
October	31.8	2.2	6.4	13.4	6.3	10.1	14.9	1.9	3.5	6.7	3.2	1.3	4.7	4.3	7.7	118.3
November	31.8	2.1	6.2	13.6	6.7	10.3	20.5	1.5	4.1	7.2	3.1	1.4	4.9	4.3	6.8	124.6
December	35.1	2.4	7.3	15.4	7.3	11.9	34.3	2.0	6.8	8.3	4.7	1.5	5.2	5.8	9.2	157.2
1990 —	ORIGINAL \$ million															
January	30.2	1.9	7.1	11.9	6.7	8.0	15.4	1.8	3.3	6.6	3.9	1.2	4.1	4.1	6.4	112.7
February	30.8	2.0	6.0	10.7	6.4	6.6	12.6	1.4	3.1	6.4	3.8	1.2	3.8	5.2	5.8	105.9
March	32.4	2.0	6.9	13.4	7.5	8.4	16.2	1.7	3.0	7.2	4.0	1.4	4.4	5.1	6.6	120.2
April	31.1	2.0	6.5	12.6	7.1	10.0	17.1	2.0	3.3	6.8	5.1	1.3	3.6	4.2	5.6	118.4
May	33.1	2.0	6.7	13.6	7.5	11.0	18.8	2.0	3.6	9.1	4.7	1.6	3.9	4.6	5.9	128.1
June	34.1	1.8	6.3	13.9	7.7	11.0	18.9	2.0	3.4	7.7	5.5	1.7	3.7	4.6	5.9	128.2
July	33.5	1.7	6.5	13.7	8.2	11.0	17.6	1.9	3.0	7.3	4.6	1.7	3.9	4.4	6.3	125.2
August	36.0	1.8	6.1	14.2	7.7	9.9	16.9	1.9	3.0	7.6	5.1	1.6	4.0	5.0	6.0	127.0
Standard error (b) of Level	1.3	0.3	0.9	1.2	1.1	0.8	0.0	0.1	0.1	0.5	0.2	0.1	0.4	0.6	0.8	2.7
Change	0.4	0.1	0.5	0.4	0.9	0.6	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.4	0.5	1.4
1990 —	TREND ESTIMATES (c) \$ million															
March	32.2	2.1	7.0	13.0	n.p.	9.2	18.1	1.7	3.8	7.7	3.5	1.4	4.3	4.8	n.p.	123.6
April	32.7	2.1	7.0	13.3	n.p.	9.4	18.3	1.8	3.9	7.7	3.4	1.4	4.1	4.7	n.p.	124.8
May	33.3	2.0	6.8	13.6	n.p.	9.6	18.6	1.8	4.0	7.6	3.4	1.4	4.0	4.7	n.p.	126.1
June	33.9	1.9	6.6	13.8	n.p.	9.8	19.0	1.9	4.0	7.5	3.4	1.5	3.9	4.7	n.p.	127.2
July	34.5	1.8	6.3	14.1	n.p.	9.9	19.3	2.0	4.0	7.4	3.5	1.5	3.8	4.8	n.p.	128.0
August	35.0	1.7	6.1	14.3	n.p.	10.0	19.6	2.1	3.9	7.3	3.5	1.5	3.7	4.8	n.p.	128.7
1990 —	% change from preceding month															
March	0.9	0.0	0.0	1.6	n.p.	0.0	0.0	0.0	5.6	1.3	0.0	0.0	-2.3	0.0	n.p.	0.8
April	1.6	0.0	0.0	2.3	n.p.	2.2	1.1	5.9	2.6	0.0	-2.9	0.0	-4.7	-2.1	n.p.	1.0
May	1.8	-4.8	-2.9	2.3	n.p.	2.1	1.6	0.0	2.6	-1.3	0.0	0.0	-2.4	0.0	n.p.	1.0
June	1.8	-5.0	-2.9	1.5	n.p.	2.1	2.2	5.6	0.0	-1.3	0.0	7.1	-2.5	0.0	n.p.	0.9
July	1.8	-5.3	-4.5	2.2	n.p.	1.0	1.6	5.3	0.0	-1.3	2.9	0.0	-2.6	2.1	n.p.	0.6
August	1.4	-5.6	-3.2	1.4	n.p.	1.0	1.6	5.0	-2.5	-1.4	0.0	0.0	-2.6	0.0	n.p.	0.5

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) The standard error of the estimates for the latest month and of the latest month from the preceding month — see paragraphs 9 to 13 of Explanatory Notes. (c) Subject to revision — see from paragraph 21 of Explanatory Notes.

TABLE 8. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,
MONTHLY ESTIMATES AT CURRENT PRICES, NORTHERN TERRITORY (a)

Month	Food stores, liquor stores, and licensed clubs (b)		All other stores		Total	
	\$ million	% change from preceding month	\$ million	% change from preceding month	\$ million	% change from preceding month
1989 —						
June	46.6	1.7	21.0	12.9	67.6	5.0
July	47.6	2.1	21.8	3.8	69.7	3.1
August	49.9	4.8	23.1	6.0	72.8	4.4
September	45.7	-8.4	22.1	-4.3	67.8	-6.9
October	45.3	-0.9	21.0	-5.0	66.4	-2.1
November	44.3	-2.2	22.1	5.2	66.5	0.2
December	46.1	4.1	31.7	43.4	78.0	17.3
1990 —						
January	41.0	-11.1	18.6	-41.3	59.5	-23.7
February	40.5	-1.2	17.4	-6.5	57.9	-2.7
March	45.0	11.1	21.2	21.8	66.1	14.2
April	44.9	-0.2	20.4	-3.8	65.2	-1.4
May	49.1	9.4	23.6	15.7	72.5	11.2
June	50.3	2.4	24.3	3.0	74.5	2.8
July	53.8	7.0	25.2	3.7	79.0	6.0
August	54.6	1.5	26.0	3.2	80.5	1.9
Standard error (c) of						
Level	2.4		0.9		2.6	
Change	0.7		0.4		0.8	

Note: Series is not long enough to provide sufficient information to allow reliable seasonal adjustment estimates. (a) Excludes motor vehicle dealers, petrol stations, etc. (b) Includes Grocers, confectioners and tobacconists, Butchers, Other food stores, Hotels, liquor stores, licensed clubs, Cafes and restaurants. (c) The standard error of the estimates for the latest month and of the latest month from the preceding month — see paragraphs 9 to 13 of Explanatory Notes.

EXPLANATORY NOTES

Introduction

This publication presents monthly retail trade series based on estimates of the value of turnover of retail establishments classified by industry, and by State. These series replace the statistics based on the value of retail sales published up to June 1988.

2. From June 1988 the series in this publication are based on turnover data obtained from a sample of retail establishments. For the period until June 1988 the series have been adjusted to a turnover basis using movements in the previous retail sales series. Linked historical data are available on AUSSTATS, or can be provided by the ABS. More information on the survey methodology and the procedures used to link statistics for the new series with those for months prior to June 1988 are contained in the Information Paper: *Introduction of Improved Monthly Retail Trade Statistics (8511.0)*.

Scope and coverage

3. The estimates of turnover are derived from a survey covering all States and the two Territories. It includes in its scope all retail trade establishments classified to ASIC subdivision 48, *except* motor vehicle dealers, service stations, etc (ASIC classes 4861-4868); milk and bread vendors (4878-4879); shoe repairers (4846); and electrical appliance repairers n.e.c. (4857). *Also included* are cafes and restaurants (9231); hotels, etc. (mainly drinking places) (9232); licensed clubs (9241-9243); and hairdressers (9351-9352).

4. Retail establishments which do not have employees are excluded from the coverage of the survey.

Definition of Turnover

5. Turnover includes retail sales; wholesale sales; takings from repairs, meals and hiring of goods (except for rent, leasing and hiring of land and buildings); and commissions from agency activity (e.g. commissions received from collecting dry cleaning, selling lottery tickets, etc).

Industry Detail

6. The names of the industries for which statistics are published in this bulletin align with the titles given in ASIC, except for the following groupings:

Other food stores: ASIC classes 4883, 4885, 4886

Hotels, liquor stores, licensed clubs: ASIC classes 9232, 4884, 9241, 9242, 9243

Clothing and fabrics stores: ASIC classes 4843, 4844, 4847

Electrical goods stores: ASIC classes 4855, 4856

Other stores: ASIC classes 4892, 4893, 4895, 4896, 4897, 9351, 9352

Constant Price Statistics

7. To enable analysis of the movement of retail activity in 'real' terms, estimates of retail turnover at constant (average 1984-85) prices are compiled each quarter. Constant price retail turnover series are derived by deflating the original current price series of retail turnover by specially compiled indexes of price change.

Reliability of Estimates

8. Retail trade statistics may be subject to error from various sources, which are usually classified as either sample or non-sample error.

Sample error

9. Since retail turnover is estimated from a survey which includes a sampled component, the estimates are subject to sampling error. That is, they may differ from figures that would have resulted if all enterprises with retail establishments were included in the survey. One measure of the likely difference is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all in-scope units had been included, and about nineteen chances in twenty that the difference will be less than two standard errors.

10. Standard errors of estimates for the latest month and of estimates of change since the preceding month are shown in the tables. An example of the use of these standard errors is given below:

The *estimated change* of \$299.1 million (4.5 per cent) in the total value of turnover between July 1990 and August 1990 has a standard error of about \$19.9 million (0.3 per cent). Therefore, there are two chances in three that the change which would have been obtained if all units had been included in the survey would be within the range \$279.2 million to \$319.0 million (4.2 per cent to 4.8 per cent) and nineteen chances in twenty that the change would be within \$259.3 million to \$338.9 million (3.9 per cent to 5.1 per cent).

11. The standard errors for some industries in some States are relatively high and users are advised to exercise caution in interpreting movements for such series. Some users may wish to combine such industries to obtain an estimate of the combined group which is more accurate than the components. 1

1. The standard error of level of any such combination of industries may be calculated by squaring the standard error for each of the component industries, adding the squared standard errors together, and taking the square root of that sum. For example, suppose the standard error of level for Industry A is \$1.5 million and the standard error for Industry B is \$2.0 million. Then the standard error for the combination of Industries A and B is $\sqrt{(1.5)^2 + (2.0)^2} = \2.5 million.

12. Standard errors of estimates of change between non-consecutive months are not shown in publication tables. These standard errors are generally much higher than the standard errors of change between consecutive months. For example, the standard error of change between the latest month and the corresponding month of the previous year is, on average, approximately 1.4 times the standard error of level of the latest month.

13. Seasonally adjusted, trend and constant price estimates are also subject to sampling variability. For seasonally adjusted estimates, the standard errors are approximately the same percentage of the estimate as for the unadjusted series. For trend estimates, the standard errors are generally not larger than for the seasonally adjusted estimates and are likely to be smaller. For constant price estimates, the standard errors may be up to 10 per cent higher than those for the corresponding current price estimates because of the sampling variability contained in the prices data used to deflate the current price estimates.

Non-sample error

14. This category includes a number of possible errors that arise in any type of collection, whether or not sampling of units is undertaken. The most significant of these errors are: misreporting of data items; deficiencies in coverage; non-response; and processing errors. In some cases the presence of these errors would, at least in part, be reflected in the size of the standard error.

15. *Reporting error.* Such error may arise because of poor form design, inability by survey respondents to provide requested data, or simply because of clerical error. Every effort is made to minimise reporting error by the careful design and testing of forms, and by examining inconsistencies both between different respondents and between the reports in successive months for each respondent.

16. Turnover is a relatively simple data item to collect accurately because it corresponds closely to total takings by respondents. While some reporting errors will be random and thus cancel out, others may be consistently in one direction and lead to bias in the results.

17. *Under coverage.* Because of limited sources available to identify enterprises with no employees, only enterprises with employees are included in the new survey. Non-employed units are estimated to account for approximately 6% of total turnover but their significance varies substantially from industry to industry. While the exclusion of such units will therefore lead to consistent underestimation of the level of turnover, their exclusion is considered to have a negligible effect on short term movements in Retail Trade.

18. Some error may also arise because of lags in the identification of new businesses. Studies undertaken by the ABS suggest that these lags also have a negligible impact on short term movements but lead to a small consistent underestimation of the level of turnover each month.

19. *Non-response.* The survey of Retail Trade is a monthly survey conducted to tight timetables so that not all forms are received in time for publication. Extensive telephone follow up is undertaken each month to obtain details for respondents who have not returned forms by the due date. Despite this, it is necessary to impute responses for approximately 5% of selected units (which are, in the main, small retailers). The consequences of this imputation for data quality are also reflected, in part, in the size of the standard error.

20. *Processing errors.* Such errors may arise at any stage of processing. Editing procedures should detect significant errors at data entry stage, while all processing systems are thoroughly tested. Published tables are produced directly from 'camera-ready' computer output to avoid the possibility of clerical transcription errors at the tabulation stage.

Seasonally Adjusted and Trend Estimates

21. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences can be more clearly recognised.

22. In the seasonal adjustment of the turnover estimates, account has been taken of both normal seasonal factors and 'trading-day' effects (arising from the varying length of each month and the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month). For total turnover for Australia, adjustment has also been made for the effects of change in the date of Easter and Australia Day holidays. Seasonal adjustment does not remove from the series the effect of irregular influences (e.g. abnormal weather, industrial disputes) and the seasonally adjusted estimates still reflect the sampling and non-sampling errors to which the original estimates are subject.

23. The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates are derived by applying a 13-term Henderson-weighted moving average to the respective seasonally adjusted series. These trend series are used to analyse the underlying behaviour of the series over time.

24. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally, subsequent revisions become smaller and after 3 months have a negligible impact on the series. To illustrate the effect of the seasonally adjusted results on the trend series movement, if the September seasonally adjusted result shows a +1.0% movement, then the trend movement would be 0.5% for September, August and July. A -1.0% movement would return a trend movement of 0.2% for September, August and July trend estimates would fall by 0.1 percentage points.

25. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series - Estimates of 'Trend'* (1316.0) and *Time Series Decomposition - An*

Overview (1317.0) for more detailed information on smoothing seasonally adjusted time series data.

Coverage adjustment

26. This survey uses as its sampling frame the ABS's register of businesses which is regularly updated to take account of new businesses and businesses ceasing operation. A major source of information on new businesses is group employer (GE) registrations with the Australian Tax Office. The ABS is developing an improved computerised system which will reduce the delay in new businesses from this source being recorded on the register, while at the same time undertaking an analysis to identify businesses which have been omitted from the register in the past. During the time these improvements to the register are being implemented, it has been necessary to temporarily suspend updating the register from GE registrations. New GE businesses will be represented in the survey result for the period June to December 1990 by including a small allowance (a 'new business provision') which is based on analysis of the contribution of such units in previous periods and taking current changes to economic conditions into consideration. When the improvements to the business register have been completed in 1991 the series in this publication may be revised to correct any deficiencies in the new business provision for surveys from June to December 1990, using information that will then be available concerning new GE businesses.

Related publications

27. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The *Catalogue and Publications Advice* are available from any ABS office.

Symbols and other usages

- n.p. not available for publication, but included in totals
 ASIC Australian Standard Industrial Classification
 r revised

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