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MANUFACTURING PRODUCTION, AUSTRALIA
FOOD, DRINK, TOBACCO, STOCK AND POULTRY FOOD
SEPTEMBER 1991

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AUSTRALIAN BUREAU OF STATISTICS

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INQUIRIES

- * for further information about statistics in this publication and the availability of related unpublished statistics, contact Kevin Squair on Canberra (06) 252 5558 or any ABS office.*
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TABLE 1. PROCESSED MILK PRODUCTS AND MILK IN POWDERED FORM

Period	Milk and cream, concentrated or sweetened, in liquid form				Milk based food preparations (e.g. health, invalid or baby preparations(a)) (098.74)	Yoghurt(b) (022.31)
	Unsweetened		Sweetened (022.24)	Cream, not concentrated or sweetened (022.13)		
	Skim milk concentrate (022.27)	Other milk and cream concentrate (022.28)				
	tonnes	tonnes				
1988-89	58,178	n.a.	n.a.	n.a.	n.a.	60,771
1989-90	43,449	43,465	n.p.	131,787	34,375	59,424
1990-91	51,682	43,752	n.p.	166,466	29,545	64,745
1990—						
July	2,883	1,288	238	9,092	2,204	4,527
August	4,875	2,208	702	10,521	2,653	4,859
September	4,990	4,252	n.p.	15,691	2,769	4,973
October	5,393	5,066	n.p.	18,500	2,578	6,007
November	4,972	5,905	n.p.	19,127	2,846	6,958
December	4,307	4,165	n.p.	20,399	1,860	4,222
1991—						
January	5,454	4,241	n.p.	14,582	1,643	6,208
February	5,297	4,213	n.p.	15,388	2,166	5,928
March	4,217	4,224	n.p.	14,184	3,105	5,763
April	3,429	3,825	n.p.	11,362	2,455	5,242
May	3,092	2,511	642	9,268	2,601	5,309
June	2,772	1,853	n.p.	8,351	2,667	4,749
July	2,812	1,526	n.p.	8,196	2,120	5,150
August	3,428	1,936	n.p.	11,839	2,360	5,627
September	3,865	3,766	n.p.	19,418	2,853	5,794
1990-91: July to Sep.	12,748	7,749	n.p.	35,304	7,626	14,359
1991-92: July to Sep.	10,105	7,228	n.p.	39,454	7,333	16,571

TABLE 1. PROCESSED MILK PRODUCTS AND MILK IN POWDERED FORM — continued (tonnes)

Period	Milk in powdered form(c)			
	Casein(c)	Wholemilk	Skim or mixed skim and buttermilk	
			Buttermilk	
1988-89	6,870	68,038	119,136	7,663
1989-90	5,328	56,476	135,048	8,681
1990-91	2,295	59,682	146,619	9,153
1990—				
July	26	1,305	4,912	402
August	238	4,355	8,510	666
September	321	7,801	18,125	874
October	480	7,074	22,967	981
November	314	6,798	23,958	1,346
December	214	6,427	20,230	1,205
1991—				
January	330	6,088	12,585	810
February	29	6,425	12,651	588
March	298	6,019	7,217	837
April	14	3,441	5,634	582
May	17	1,803	5,961	521
June	12	2,147	3,869	340
July	74	2,925	3,702	316
August	372	5,628	6,439	495
September	343	7,025	15,555	1,003
1990-91: July to Sep.	586	13,461	31,547	1,941
1991-92: July to Sep.	789	15,578	25,696	1,814

(a) Includes infants' milk powder, malted milk etc. (b) Includes flavoured yoghurt. (c) Source: Australian Dairy Corporation.

TABLE 2. ICE CREAM AND OTHER EDIBLE ICE
(⁰⁰⁰ litres)

Period	Ice cream(a)				Other frozen confections			
	Up to and incl. 200mls (021.04)	Over 200 mls but under 4 litres (021.05)	Over 4 litres		Milk ices(b)		Water ices, fruit ices (022.39)	Milk based mixtures for soft serves and thick shakes(c) (098.82)
			For home consumption (022.34)	Other (022.35)	Up to and incl. 200 mls (022.36)	Over 200 mls (022.37)		
1988-89	28,980	79,632	100,388		20,117	31,995	18,748	17,308
1989-90	26,851	79,449	71,921	18,900	21,161	29,246	13,585	18,972
1990-91	24,254	76,588	71,767	19,745	21,394	34,616	13,405	19,525
1990—								
July	1,273	5,618	5,184	1,550	1,278	2,297	305	1,429
August	1,883	5,016	5,429	1,293	1,761	2,276	373	1,331
September	2,379	6,343	5,366	1,526	1,527	2,642	950	1,688
October	2,782	7,917	6,873	2,064	2,001	3,602	1,810	1,685
November	2,675	7,467	6,820	1,912	2,405	3,468	1,731	1,650
December	2,639	7,373	7,654	1,735	2,399	3,998	1,792	2,012
1991—								
January	2,906	7,377	7,656	2,725	2,951	3,385	1,847	2,145
February	2,639	8,494	7,072	1,744	2,292	3,117	1,805	1,603
March	1,708	6,411	6,392	1,438	1,637	2,898	1,431	1,688
April	1,510	5,626	5,238	1,326	1,457	2,093	702	1,443
May	857	5,122	4,458	1,237	1,000	2,682	419	1,498
June	1,005	3,824	3,625	1,193	687	2,158	241	1,353
July	1,369	5,899	5,338	1,676	1,332	2,747	285	1,725
August	1,628	5,310	3,979	1,535	1,287	2,405	609	1,446
September	2,286	7,054	5,493	1,791	1,462	2,793	1,172	1,659
1990-91: July to Sep.	5,534	16,977	15,979	4,369	4,566	7,215	1,627	4,448
1991-92: July to Sep.	5,282	18,264	14,810	5,001	4,081	7,945	2,066	4,830

(a) Ice cream / aerated milk based confections containing 10% or more butter fat. (b) Includes aerated milk based confections containing less than 10% butterfat.
(c) Powdered mix is included in terms of liquid mix equivalent.

TABLE 3. BUTTER AND MARGARINE
(tonnes)

Period	Butter plus direct buteroila)						Margarine	
	NSW	Vic.	Qld	SA	WA	Tas.	Australia	Other
1988-89	1,226	83,282	3,687	2,243	1,139	4,276	95,853	119,095
1989-90	1,106	90,071	4,195	2,396	1,339	5,051	104,158	112,533
1990-91	971	92,851	4,606	1,582	1,478	5,381	105,869	119,123
1990—								
July	67	2,978	229	217	126	123	3,740	8,723
August	37	4,752	284	219	103	224	5,619	10,713
September	161	9,881	353	180	162	317	11,054	12,562
October	265	13,608	386	217	171	573	15,221	9,825
November	146	13,912	355	179	117	851	15,561	9,069
December	89	12,359	237	110	67	699	13,561	8,540
1991—								
January	72	8,722	403	76	121	571	9,965	6,627
February	75	8,310	407	50	125	534	9,501	10,428
March	37	6,948	324	47	126	442	7,924	12,479
April	—	4,999	215	78	126	406	5,824	9,273
May	2	3,941	154	120	136	364	4,717	9,690
June	20	2,440	261	89	97	277	3,183	11,191
July	16	1,708	253	68	198	216	2,459	12,940
August	70	3,847	235	80	206	228	4,666	10,474
September	116	9,042	206	58	208	347	9,977	11,205
1990-91: July to Sep.	265	17,612	865	615	391	664	20,412	31,999
1991-92: July to Sep.	202	14,597	694	206	612	791	17,102	34,619

(a) Source: Australian Dairy Corporation.

TABLE 4. CHEESE : STATES(a)
(tonnes)

Period	NSW	Vic.	Qld	SA	WA	Tas.	Australia
1988-89	14,245	114,690	14,413	24,704	3,543	18,661	190,256
1989-90	14,165	103,251	12,842	22,774	4,129	18,172	175,333
1990-91	13,328	103,522	12,500	24,238	5,256	19,413	178,257
1990 —							
July	892	3,941	1,104	1,357	602	67	7,964
August	1,059	6,620	1,176	1,769	628	578	11,829
September	1,292	11,855	1,124	2,897	684	1,726	19,577
October	1,976	12,866	1,285	3,185	685	3,221	23,217
November	1,535	13,584	1,049	3,343	587	3,229	23,327
December	1,234	12,239	916	2,556	341	2,693	19,979
1991 —							
January	978	10,537	1,112	1,964	205	2,716	17,512
February	1,046	8,212	1,064	2,275	82	1,837	14,516
March	1,029	8,987	1,019	1,159	299	1,293	13,787
April	799	7,036	958	1,209	311	1,223	11,536
May	672	3,908	811	1,261	328	620	7,600
June	817	3,738	881	1,261	506	210	7,414
July	1,224	4,375	839	1,920	545	151	9,054
August r	1,162	7,282	857	2,168	676	596	12,741
September	1,161	11,861	837	2,471	691	1,618	18,640
1990-91: July to Sep.	3,243	22,416	3,404	6,023	1,913	2,371	39,369
1991-92: July to Sep.	3,547	23,518	2,533	6,559	1,912	2,365	40,435

(a) Source: Australian Dairy Corporation.

TABLE 5. CHEESE : TYPES(a)
(tonnes)

Period	Cheddar and cheddar types(b)	Round eye(c)	Shredding(d)	Hard grating(e)	Fresh(f)	Other(g)
1988-89	121,634	9,337	21,999	5,066	18,223	13,098
1989-90	116,702	7,453	20,361	5,336	17,074	8,405
1990-91	117,094	6,539	22,229	6,281	18,957	7,157
1990 —						
July	4,437	177	1,694	228	1,084	344
August	6,884	492	2,030	646	1,268	510
September	13,772	729	2,715	533	1,358	469
October	16,271	871	2,410	580	1,901	1,184
November	16,715	850	2,064	907	1,890	901
December	13,928	738	1,832	665	1,618	1,198
1991 —						
January	11,855	604	1,912	911	1,594	636
February	9,281	451	2,121	735	1,498	431
March	9,344	432	1,628	296	1,639	447
April	7,116	551	1,378	212	1,951	329
May	3,685	396	1,225	294	1,669	331
June	3,806	249	1,220	274	1,487	378
July r	5,086	244	1,361	516	1,478	369
August r	7,716	398	1,544	640	1,445	998
September	12,555	705	2,371	600	1,866	543
1990-91: July to Sep.	25,094	1,398	6,439	1,407	3,710	1,322
1991-92: July to Sep.	25,357	1,347	5,276	1,756	4,789	1,910

(a) Source: Australian Dairy Corporation. (b) Includes Cheddar, Cheshire, Cheddar, Colby, Dunlop, Nimbin, Leicester, Gloucester and Stirred Curd/Granula. (c) Includes Edam, Gouda, Swiss, Sarnese, Fontina, Tilsit, Raclette, Emmenthal and Vacherin. (d) Includes Gouda, Mozzarella and Pizza. (e) Includes Parmesan, Pecorino, Provolone, Romano, Sardo and other hard types. (f) Includes Cottage, Ricotta, Cream, Neufchâtel, Bakers, Mascarpone and Quark. (g) Includes Blue Vein, Brie, Camembert, Feta, Havarti, Skim, Cheese Curd, Haloumy and Provolone.

TABLE 6: PREPARED OR PRESERVED VEGETABLES
(tonnes)

Period	Not pickled				Pickled				Total prepared or preserved vegetables	
	Fresh vegetable salads(a) (054.30)	Frozen vegetables (054.60)	Tomato pulp, puree and paste (056.73)	Other (056.72, 87, 88, 89)	Cucumber (056.81)	Gherkins (056.82)	Olives (056.83)	Onions (056.84)	Other (056.85)	pickled and not pickled
1988-89	n.a.	n.a.	n.a.	n.a.	2,492	2,392	802	2,565	2,424	n.a.
1989-90	2,183	261,920	31,844	133,183	2,598	2,154	727	3,087	2,619	440,316
1990-91	1,736	255,981	29,192	131,729	n.p.	2,058	n.p.	2,779	1,964	427,851
1990—										
July	102	n.p.	n.p.	7,201	44	135	84	164	134	31,298
August	79	21,221	892	6,472	113	226	57	146	199	29,405
September	156	18,741	885	12,459	185	114	74	254	166	33,034
October	159	20,358	621	15,761	55	238	53	264	255	37,765
November	173	20,883	409	13,504	64	298	107	336	206	35,980
December	358	n.p.	n.p.	9,389	89	260	59	313	99	36,621
1991—										
January	143	19,300	747	9,217	250	131	50	277	66	30,180
February	159	22,014	6,826	14,788	576	136	47	206	48	44,811
March	179	16,990	8,352	14,932	110	154	65	253	177	41,213
April	86	21,571	6,431	10,378	70	154	65	230	327	39,311
May	71	26,941	1,548	9,038	91	115	48	225	120	38,197
June	60	19,955	1,002	8,590	n.p.	97	n.p.	111	166	30,036
July	52	22,197	757	11,038	76	75	103	119	262	34,680
August	52	20,800	2,098	8,807	n.p.	212	n.p.	123	102	32,364
September	88	20,735	969	8,339	95	446	133	371	129	31,304
1990-91: July to Sep.	337	n.p.	n.p.	26,132	341	476	215	564	499	93,737
1991-92: July to Sep.	192	63,732	3,824	28,183	n.p.	734	n.p.	613	493	98,348

(a) In plastic or similar containers

TABLE 7. HAM AND BACON AND CANNED MEAT
(tonnes)

Period	Canned meat for human consumption(a)			Ham, bacon or other dried, salted or smoked pig meat(c)	
	Corned beef (016.83)	Mixed meat and vegetables(b)	Bacon or ham (017.74)	Ham, shoulders and cuts thereof with bone in (016.11)	Other (016.18)
1988-89	n.p.	10,496	2,663	n.a.	n.a.
1989-90	3,656	10,570	n.p.	15,747	71,818
1990-91		17,380		19,884	66,590
1990—					
July		1,552		994	5,689
August		1,404		1,055	6,064
September		1,734		1,158	6,725
October		1,185		1,764	5,720
November		1,282		2,742	6,010
December		1,446		3,952	5,492
1991—					
January		1,057		956	4,596
February		1,380		1,521	5,444
March		1,517		1,829	5,348
April		1,345		1,206	4,855
May		1,521		1,322	5,619
June		1,957		1,386	5,031
July		1,348		1,383	5,414
August		1,359		1,497	5,362
September		1,796		1,471	5,339
1990-91: July to Sep.		4,690		3,206	18,477
1991-92: July to Sep.		4,502		4,351	16,115

(a) Stated net weight of packs. (b) Excludes pork and beans prior to July 1989. (c) Excludes canned and ham paste.

TABLE 8. FISH, CRUSTACEANS AND MOLLUSCS
(tonnes)

Prepared or preserved crustaceans and molluscs (excl. oysters)											
Period	Prepared or preserved fish products		Crustaceans (chilled or frozen)					Molluscs and aquatic invertebrates			
			Shrimps and prawns (036.12)	Rock lobster and crayfish		Other (036.15)	Chilled, frozen, dried, salted or in brine(b)			Abalone otherwise preserved (037.23)	
	Fish fillets frozen (034.40)	Fish canned(a) (037.18)		Tails (036.14)	Whole (036.13)		Abalone (036.34)	Scallops (036.36)	Other (036.38)		
	1988-89	2,314	8,649	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1989-90	4,322	7,581	7,269	2,534	5,707	118	390	859	189	1,234	
1990-91	3,956	6,514	8,795	1,476	6,811	234	248	1,111	141	1,364	
1990—											
July	r1,040	331	r562	n.p.	7	29	20	76	5	120	
August	552	323	718	n.p.	25	13	30	96	5	104	
September	350	520	671	n.p.	5	n.p.	16	109	5	151	
October	191	597	706	13	41	20	16	113	8	98	
November	261	677	692	86	674	39	14	166	10	107	
December	r237	484	389	329	1,817	18	18	68	9	84	
1991—											
January	r152	561	77	223	402	34	26	67	15	67	
February	320	546	232	188	603	12	30	64	22	115	
March	260	561	480	229	1,336	25	27	73	13	130	
April	184	584	1,127	241	927	13	27	56	33	117	
May	181	763	1,854	115	516	16	19	101	9	95	
June	226	568	1,287	45	459	n.p.	4	122	5	176	
July	r338	519	733	n.p.	4	26	7	117	2	126	
August	284	r517	r554	n.p.	20	1	11	200	4	113	
September	158	572	763	—	7	5	5	262	4	114	
1990-91: July to Sep.	1,942	1,174	1,951	n.p.	37	n.p.	66	282	16	374	
1991-92: July to Sep.	780	1,608	2,050	n.p.	31	32	22	579	10	353	

(a) Excludes canned pet food. (b) Shelled weight.

TABLE 9. BISCUITS AND CONFECTIONERY
(tonnes)

Period	Biscuits (excl dog biscuits)(a)		Confectionery					
			Chocolate or containing chocolate(b) (073.80)			Other (062.26)		
	Sweet(c) (048.42)	Other (048.44)	Original	Seas. adj.(d)	Trend(e)	Original	Seas. adj.(d)	Trend(e)
1988-89	n.a.	n.a.	93,418	..	..	64,655	..	..
1989-90	87,803	46,071	92,626	..	..	63,890	..	..
1990-91	82,312	48,988	93,449	..	..	63,603	..	..
1990—								
July	7,431	3,910	7,531	7,170	7,764	5,220	4,840	5,496
August	8,227	4,582	8,718	7,778	7,953	6,852	6,215	5,452
September	7,422	4,104	8,453	8,918	8,081	5,898	5,327	5,365
October	7,908	5,104	9,088	8,086	8,128	6,102	4,904	5,264
November	7,373	4,867	8,353	8,132	8,075	6,117	5,283	5,174
December	4,795	2,924	7,076	8,619	7,897	4,338	5,054	5,123
1991—								
January	4,735	2,843	3,203	5,891	7,679	2,633	5,259	5,133
February	6,666	3,953	8,500	8,165	7,490	4,866	4,982	5,188
March	6,862	4,070	9,247	8,189	7,415	5,476	5,371	5,293
April	6,173	3,808	7,181	7,041	7,469	4,620	5,485	5,392
May	7,482	4,709	7,972	6,952	7,609	5,659	5,339	5,482
June	7,237	4,114	8,128	8,325	7,796	5,823	5,753	5,548
July	8,100	4,455	7,929	7,257	7,984	5,936	5,337	5,582
August r	8,523	4,764	9,884	9,386	8,147	6,537	6,076	5,594
September	7,796	5,322	7,725	7,908	8,334	5,787	5,173	5,567
1990-91: July to Sep.	23,081	12,595	24,702	..	..	17,969	..	..
1991-92: July to Sep.	24,418	14,541	25,537	..	..	18,259	..	..

(a) Includes biscuits coated with chocolate or other confectionery. (b) All chocolate confectionery including chocolate centred items, chocolate confectionery bars and compound chocolate, but not including chocolate sold for manufacturing purposes. (c) Includes waffles, wafers and gingerbread. (d) See paragraph 5, Explanatory Notes.

(e) See paragraph 6 to 8, Explanatory Notes.

TABLE 10. CEREAL PRODUCTS
(tonnes)

Period	Wheat gluten (592.17)	Rice, husked, broken, semi- milled or wholly milled (042.40)	Wheat flour, other than self- raising (046.12)	Groats meals and pellets of wheat for human consumption (046.21)	Maize (corn) flour (047.11)	Starch (592.11.18)
1988-89	48,423	n.a.	n.a.	n.a.	n.p.	194,836
1989-90	48,685	409,868	1,230,403	124,778	n.p.	220,198
1990-91	45,218	490,011	1,227,165	135,704	n.p.	214,058
1990—						
July	4,350	22,086	100,770	10,834	n.p.	20,987
August	4,056	35,090	111,284	16,242	n.p.	18,986
September	4,275	52,202	108,557	11,806	n.p.	17,301
October	4,531	47,980	103,520	10,326	n.p.	18,499
November	3,795	49,374	106,681	13,189	n.p.	18,160
December	3,547	29,151	91,286	8,388	n.p.	14,651
1991—						
January	3,346	43,254	93,563	8,408	n.p.	16,229
February	3,536	32,663	99,000	10,896	n.p.	19,303
March	3,569	38,559	103,398	9,394	n.p.	18,585
April	3,411	50,606	98,158	11,599	15	18,273
May	3,430	47,066	108,080	12,932	14	16,496
June	3,371	41,980	102,868	11,690	n.p.	20,373
July	3,975	65,147	108,263	12,740	14	19,842
August	3,814	51,877	102,788	12,273	n.p.	17,808
September	3,609	47,647	101,340	12,132	n.p.	17,808
1990-91: July to Sep.	12,682	109,378	320,611	38,882	n.p.	57,273
1991-92: July to Sep.	11,398	164,671	312,391	37,145	n.p.	58,024

TABLE 10. CEREAL PRODUCTS — continued
(tonnes)

Period	Glucose(a) and glucose syrup (061.97)	'Prepared foods obtained by the swelling or roasting of cereals or cereal products (048.11)	Other worked cereal grains(b) for human consumption (048.16)	Mixes and doughs for the preparation of bakers' wares (048.50)	Pasta		
					Not cooked or prepared (048.30)	Cooked or stuffed	
						Canned (098.95)	Other (098.96)
1988-89	97,035	101,099	n.a.	n.a.	n.a.	n.a.	n.a.
1989-90	102,142	87,855	58,029	87,906	42,853	23,627	1,375
1990-91	84,720	96,049	70,467	105,383	40,586	21,911	1,699
1990—							
July	8,214	8,111	5,264	8,655	4,043	2,237	187
August	6,695	8,087	4,806	8,406	3,539	2,723	164
September	8,781	7,098	5,120	9,433	3,080	1,617	141
October	8,382	8,791	5,659	9,396	3,245	1,795	135
November	7,029	8,704	4,934	9,584	3,618	1,432	120
December	7,546	6,838	4,721	7,642	2,632	1,731	115
1991—							
January	5,885	6,408	3,876	7,719	1,840	1,990	107
February	7,181	7,891	5,815	8,956	3,099	674	93
March	6,757	8,482	6,606	8,770	3,944	971	141
April	5,890	7,446	7,537	7,972	3,875	1,616	160
May	6,578	9,823	8,536	9,151	4,273	2,568	162
June	5,483	8,371	7,593	9,699	3,397	2,557	171
July	5,891	8,478	6,365	9,643	3,753	2,877	179
August	6,378	7,649	4,581	8,636	4,113	2,616	178
September	6,372	8,614	6,379	10,239	4,223	2,142	165
1990-91: July to Sep.	23,690	23,295	15,190	26,494	10,662	6,578	493
1991-92: July to Sep.	18,641	24,740	17,325	28,517	12,089	7,635	523

(a) Expressed as 43 Baume. Includes dextrose. (b) e.g. hulled, pearled, clipped, sliced, kibbled, milled, flaked or further prepared.

TABLE 11. TOMATO SAUCE, JAM AND PRESERVED FRUIT

Period	Tomato sauce (098.42)	Jam(a) (058.12)	Fruit jelly, puree and paste(b) (058.11)	Fruit, otherwise prepared or preserved					Total
				Apples (058.51)	Apricots (058.52)	Peaches (058.53)	Mixed fruit(c) (058.56)	Other (058.54, 55.57)	
	'000 litres	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
1988-89	33,697	36,345	n.a.	n.a.	8,441	38,897	30,395	65,291	154,950
1989-90	34,587	31,325	7,015	11,927	8,831	30,995	32,712	73,615	156,745
1990-91	34,299	30,091	6,051	10,593	—	—	—	—	—
1990—									
July	3,360	2,423	439	1,691	—	—	130	604	2,425
August	4,002	2,458	265	1,439	—	—	84	688	2,211
September	3,375	3,030	n.p.	377	—	—	79	3,981	4,437
October	2,738	2,273	n.p.	711	—	—	357	2,912	3,980
November	3,437	2,652	186	880	—	—	203	1,374	2,457
December	1,972	1,920	n.p.	650	953	—	44	345	1,993
1991—									
January	1,464	2,113	807	643	7,846	n.p.	n.p.	2,924	12,969
February	4,687	2,417	1,731	367	n.p.	9,987	n.p.	24,761	47,440
March	2,358	2,517	652	236	—	17,506	15,426	18,038	51,205
April	1,821	2,340	426	555	n.p.	n.p.	3,173	8,621	15,118
May	3,067	2,604	285	1,919	n.p.	n.p.	16	6,230	8,166
June	2,018	3,344	21	1,124	—	—	83	3,137	4,344
July	3,000	2,657	270	1,317	—	n.p.	n.p.	1,219	2,990
August	2,217	2,917	n.p.	678	—	—	441	3,332	4,451
September	2,300	2,311	126	525	—	—	239	3,774	4,539
1990-91: July to Sep.	10,738	7,911	n.p.	3,506	—	—	293	5,273	9,072
1991-92: July to Sep.	7,517	7,885	n.p.	2,520	—	n.p.	n.p.	8,326	11,980

(a) Includes conserves, fruit spreads, fruit butter etc. (b) Includes apple sauce. (c) Includes fruit salad.

TABLE 12. MALT, ALE AND BEER

Period	Ale, beer and stout(a)							Extra light beer(d)	
	Finished malt (048.20)	Bulk (112.33)	Canned (112.34)	Bottled (112.35)	Total			Canned (112.31)	Bottled (112.32)
					Original	Seasonally adjusted(b)	Trend(c)		
	tonnes	'000 litres	'000 litres	'000 litres	'000 litres	'000 litres	'000 litres	'000 litres	'000 litres
1988-89	589,777	578,064	566,230	806,579	1,950,873	..	..	16,090	8,106
1989-90	623,823	550,428	580,481	807,941	1,939,050	..	..	10,154	4,273
1990-91	605,260	527,496	595,587	792,399	1,915,482	..	..	7,832	3,791
1990—									
July	52,367	43,699	48,554	55,870	148,123	158,809	160,719	774	n.p.
August	50,601	46,642	42,105	59,268	148,015	158,702	160,660	463	322
September	44,488	39,361	38,440	55,449	133,250	157,666	161,093	n.p.	n.p.
October	49,521	51,100	57,878	84,632	193,610	161,636	162,116	754	213
November	51,761	48,511	79,109	80,540	208,160	168,524	162,720	799	429
December	49,421	48,467	62,569	86,034	197,070	163,195	162,370	233	465
1991—									
January	50,393	43,339	52,163	68,619	164,121	159,706	161,079	787	387
February	49,708	40,544	41,818	65,471	147,834	159,342	159,122	703	n.p.
March	51,344	42,549	44,241	64,940	151,731	161,112	157,753	n.p.	n.p.
April	45,173	42,118	44,957	56,718	143,793	144,077	157,339	858	291
May	58,213	43,864	45,771	65,843	155,478	164,648	157,776	461	535
June	52,270	37,300	37,981	49,017	124,297	159,719	157,307	n.p.	n.p.
July	49,687	45,307	43,035	64,301	152,643	157,166	156,268	n.p.	n.p.
August	53,656	39,107	48,690	57,898	145,695	162,660	154,955	520	n.p.
September	50,259	33,390	36,452	60,379	130,221	145,424	—	—	—
1990-91: July to Sep.	147,456	129,702	129,098	170,587	429,388	..	..	n.p.	n.p.
1991-92: July to Sep.	153,602	117,804	128,177	182,578	428,559	..	..	n.p.	n.p.

(a) Excludes extra light beer containing less than 1.15% but more than 0.5% by volume of alcohol. (b) See paragraph 5, Explanatory Notes. (c) See paragraph 6 to 8, Explanatory Notes. (d) Containing less than 1.15% but more than 0.5% by volume of alcohol.

TABLE 13. MINERAL WATERS AND AERATED WATERS
(*000 litres)

Period	Canned and bottled (111.05,06,07,11,12,13)							Bulk pre-mix (111.08)	Post-mix concentrates(a) (111.09)
	NSW	Vic.	Qld	WA	SA and NT	Tas.	Australia		
1988-89	468,769	391,506	286,192	n.p.	n.p.	n.p.	1,447,832	1,284	130,161
1989-90	472,441	384,536	297,295	140,679	152,330	22,232	1,469,513	1,019	136,714
1990-91	472,523	389,889	301,387	145,679	140,760	20,148	1,470,386	n.p.	137,484
<i>1990—</i>									
July	19,778	16,896	12,094	7,703	8,122	1,437	66,029	89	9,172
August	39,209	29,867	23,196	11,661	10,745	1,447	116,124	70	9,357
September	37,845	26,397	21,021	9,240	11,760	1,672	107,936	82	11,024
October	38,546	38,266	33,249	13,439	13,668	1,992	139,160	206	12,189
November	48,812	43,293	33,958	16,139	17,275	2,158	161,634	81	13,255
December	53,956	43,578	27,251	17,384	14,191	1,688	158,046	15	14,487
<i>1991—</i>									
January	50,756	41,621	16,410	11,441	14,074	1,813	136,114	n.p.	13,493
February	48,120	37,706	32,883	16,805	11,486	1,922	148,922	n.p.	11,079
March	49,599	48,308	33,485	15,914	14,793	1,907	164,007	17	13,415
April	37,048	22,683	28,277	9,851	9,175	1,274	108,308	49	8,835
May	24,601	20,412	19,478	10,134	7,633	1,445	83,704	25	10,287
June	24,254	20,861	20,086	5,968	7,839	1,392	80,401	n.p.	10,891
July	26,784	23,715	21,798	9,156	9,147	1,266	91,867	n.p.	9,129
August	33,552	21,687	20,136	9,231	7,656	1,133	99,394	n.p.	8,814
September	48,697	35,537	34,289	11,985	11,345	1,730	143,583	n.p.	11,362
1990-91: July to Sep.	96,832	73,161	56,310	28,604	30,627	4,556	290,089	241	29,553
1991-92: July to Sep.	109,032	80,939	76,222	30,372	28,148	4,129	328,844	n.p.	29,305

(a) Production represents 'ready to drink' or 'finished beverage' litres.

TABLE 13. MINERAL WATERS AND AERATED WATERS — continued
(*000 litres)

Period	Canned(a) (111.05,11)				Other States	Australia
	NSW	Vic.	Qld			
1988-89	n.p.	n.p.	107,482		101,755	455,292
1989-90	129,155	n.p.	110,791		n.p.	357,807
1990-91	n.p.	n.p.	117,614		106,364	468,025
<i>1990—</i>						
July	n.p.	n.p.	4,112		6,306	20,667
August	n.p.	n.p.	9,823		8,969	40,956
September	n.p.	n.p.	8,949		5,198	29,672
October	n.p.	n.p.	11,671		11,167	45,341
November	n.p.	n.p.	12,286		14,591	50,444
December	n.p.	n.p.	11,435		11,448	50,472
<i>1991—</i>						
January	14,527	10,872	5,162		7,614	38,176
February	n.p.	n.p.	13,110		10,153	47,347
March	n.p.	n.p.	13,830		12,450	54,281
April	n.p.	n.p.	11,777		6,613	36,368
May	n.p.	n.p.	6,357		5,906	28,569
June	n.p.	n.p.	9,102		5,949	25,733
July	8,223	7,825	10,329		7,040	33,417
August	9,425	15,394	8,110		5,826	42,649
September	10,568	9,950	13,611		8,520	42,649
1990-91: July to Sep.	n.p.	n.p.	22,884		20,472	91,294
1991-92: July to Sep.	28,216	23,168	32,049		21,386	104,819

(a) From July 1989 to June 1990 excludes mineral waters and aerated waters not containing added sugar, sweetener or flavouring.

TABLE 13. MINERAL WATERS AND AERATED WATERS — continued
(*000 litres)

Period	Bottled(a)									
	Returnable (111 06,12)					Non-returnable (111 07,13)				
	NSW	Vic.	Qld	Other States	Australia	NSW	Vic.	Qld	Other States	Australia
1988-89	n.p.	n.p.	24,189	103,139	188,648	n.p.	n.p.	154,521	96,469	803,893
1989-90	n.p.	n.p.	23,740	95,694	174,743	n.p.	n.p.	149,057	107,355	786,338
1990-91	n.p.	n.p.	18,875	86,527	160,074	323,492	240,201	164,897	113,696	842,286
1990—										
July	n.p.	n.p.	937	4,027	7,939	13,106	10,343	7,044	6,929	37,423
August	n.p.	n.p.	1,127	7,486	12,705	23,515	19,304	12,246	7,398	62,464
September	n.p.	n.p.	1,503	5,848	11,075	30,845	14,148	10,569	11,627	67,189
October	n.p.	n.p.	1,835	8,050	14,211	27,328	22,655	19,743	9,882	79,608
November	n.p.	n.p.	2,162	10,581	18,077	34,190	29,015	19,509	10,400	93,113
December	n.p.	n.p.	2,333	9,375	17,394	36,452	27,807	13,483	12,439	90,181
1991—										
January	1,721	4,108	2,009	8,421	16,258	34,508	26,641	9,239	11,292	81,680
February	n.p.	n.p.	1,566	8,489	15,656	33,047	23,092	18,207	11,573	85,919
March	n.p.	n.p.	1,729	9,163	15,865	33,377	31,555	17,926	11,002	93,860
April	n.p.	n.p.	1,566	5,600	11,543	24,268	13,108	14,935	8,087	60,397
May	n.p.	n.p.	1,186	6,170	11,207	15,474	9,382	11,935	7,137	43,928
June	n.p.	n.p.	923	3,318	8,144	17,380	13,151	10,061	5,932	49,193
July	63	2,230	849	6,115	9,257	18,497	13,661	10,620	6,414	46,524
August	462	2,875	910	4,248	8,494	23,666	13,418	11,116	7,946	156,146
September	256	2,357	1,014	6,499	10,127	37,873	23,229	19,663	10,041	90,807
1990-91: July to Sep.	n.p.	n.p.	3,567	17,361	31,719	67,467	43,796	29,860	25,954	167,076
1991-92: July to Sep.	781	7,462	2,773	16,862	27,878	80,036	50,309	41,400	24,402	196,146

(a) From July 1989 to June 1990 excludes mineral waters and aerated waters not containing added sugar, sweetener or flavouring.

TABLE 14. MAYONNAISE AND SALAD DRESSINGS, COFFEE, PEANUT BUTTER AND FLAVOURING ESSENCES

Period	Coffee		Peanut butter (058 42)	Industrial flavouring essences (098 88)	Mayonnaise and salad dressing (098 47)
	Roasted(a) (071 20)	Instant (071 34)			
	tonnes	tonnes	tonnes	'000 litres	tonnes
1989-90	r3,709	8,657	8,096	9,631	18,307
1990-91	r3,306	8,515	8,860	8,786	20,734
1989—	r				
September qtr	993	2,204	2,003	2,381	n.p.
December qtr	948	2,134	2,118	2,906	6,901
1990—	r				
March qtr	829	1,973	1,952	2,367	3,654
June qtr	939	2,346	2,022	1,977	n.p.
September qtr	790	2,259	2,665	2,224	6,227
December qtr	771	2,144	1,897	2,058	7,597
1991—	r				
March qtr	833	1,880	1,897	2,348	4,100
June qtr	912	2,232	2,402	2,155	2,810
September qtr	813	n.p.	2,616	2,350	6,842

(a) Whether or not decaffeinated or ground.

TABLE 15. CORDIALS AND SYRUPS, SINGLE STRENGTH FRUIT JUICES AND OTHER DRINKS ('000 litres)

Period	Wine based mixed drinks(a) (112.19)	Fruit juices, unfermented and not containing added spirit (single strength) (b)		Non-aerated drinks(d)		Fruit juice cordials and syrups(f) (098.79)	Other cordials and syrups (098.81)
		Citrus(c) (059.40)	Apple (059.61)	Containing at least 25% by volume of pure fruit or vegetable juice (111.18)	Containing less than 25% by volume of pure fruit or vegetable juice(e) (111.19)		
1988-89	13,977	130,539	53,157	n.a.	n.a.	117,810	24,609
1989-90	12,512	171,967	50,976	129,343	n.p.	144,420	29,539
1990-91	10,123	127,313	56,958	134,273	n.p.	148,953	31,128
1990—							
July	417	8,484	5,007	9,842	n.p.	5,845	1,646
August	323	11,069	4,159	10,768	n.p.	10,354	2,399
September	888	11,604	4,264	12,074	n.p.	13,094	2,565
October	983	14,262	4,132	11,807	n.p.	13,388	3,142
November	2,143	13,361	3,482	12,578	n.p.	12,225	2,878
December	1,779	13,756	3,328	12,134	n.p.	15,909	3,419
1991—							
January	1,259	16,557	2,723	12,690	n.p.	15,536	3,263
February	550	11,490	1,877	12,483	n.p.	16,981	3,289
March	622	6,852	5,723	11,114	n.p.	13,475	2,731
April	626	5,786	8,244	9,221	n.p.	11,481	2,378
May	374	6,697	8,832	10,681	n.p.	11,312	2,015
June	160	7,395	5,187	8,881	n.p.	9,353	1,857
July	539	9,200	2,929	10,610	n.p.	5,874	1,795
August r	443	11,489	3,013	10,937	n.p.	6,983	2,456
September	1,181	10,009	1,738	13,188	n.p.	10,031	2,456
1990-91: July to Sep.	1,627	31,157	13,430	32,684	n.p.	29,293	6,610
1991-92: July to Sep.	2,163	30,736	7,679	34,735	n.p.	22,888	6,108

(a) Containing more than 0.5% by volume of alcohol, commonly known as 'coolers'. (b) Includes fruit juice used for concentrating and for making other products such as fruit drinks, soft drinks, etc. (c) Includes mixtures of citrus fruit prior to July 1989. (d) Excludes fruit and vegetable juices, mineral waters and flavoured whole milk drinks. (e) Includes drinks with no fruit or vegetable juice content. (f) Contains at least 25% by volume of pure fruit juice.

TABLE 16. STOCK AND POULTRY FOOD (tonnes)

Period	Bran (from wheat) (081.21)	Groats meals and pellets of wheat (046.22)	Sharps and other residues of wheat or rye (081.27)	Prepared stock and poultry feeds(a)			
				Poultry pellets and crumbles (081.91)	Poultry mash (081.92)	Pig feed (081.93)	Cattle (incl. dairy) feed (081.96)
1988-89	95,794	n.a.	n.a.	1,606,005	115,850	682,854	321,021
1989-90	85,183	n.p.	381,091	1,675,024	117,375	743,418	403,040
1990-91	73,504	n.p.	386,569	1,648,083	114,950	649,154	407,966
1990—							
July	6,485	n.p.	31,762	139,507	10,621	56,339	35,103
August	6,879	n.p.	33,127	135,739	10,620	55,915	38,829
September	6,008	n.p.	33,194	143,330	10,330	60,036	38,698
October	6,490	2,701	31,884	143,747	10,330	53,617	32,337
November	6,378	n.p.	33,423	149,381	9,858	56,141	31,100
December	4,585	n.p.	30,202	129,907	8,540	53,452	30,987
1991—							
January	5,641	4,280	29,409	132,671	9,128	49,829	29,158
February	5,899	4,337	30,894	126,196	8,377	47,354	25,022
March	6,027	5,524	31,723	136,181	9,777	54,996	30,299
April	6,453	3,695	31,845	135,938	8,908	50,412	32,297
May	6,792	n.p.	34,468	137,640	9,027	54,255	42,052
June	5,367	n.p.	34,638	137,846	9,434	56,808	42,084
July	6,760	5,688	37,387	148,278	9,551	55,448	45,032
August r	6,046	4,888	33,765	136,134	9,297	51,431	48,246
September	5,908	5,887	33,192	131,707	6,318	53,568	50,814
1991: September							
New South Wales	4,169	2,820	12,723	50,996	3,424	22,820	14,451
Victoria	321	—	8,244	35,871	—	n.p.	8,621
Other States	1,418	3,067	12,225	44,840	5,894	n.p.	27,742
1990-91: July to Sep.	19,372	n.p.	98,083	418,576	31,571	172,290	112,630
1991-92: July to Sep.	18,714	16,463	104,344	416,119	28,166	160,447	144,092

(a) Includes concentrated feeds. Excludes straight mixtures of cereals and mixed crushed grain. (b) Includes wheat pollard, crushed wheat, and rye and offal.

TABLE 17. TALLOW, MEALS AND SUNFLOWER SEED OIL
(tonnes)

Period	Tallow (incl. dripping)			Meals, flours and pellets, of meat or meat offal(a) (081.40)	Oil-cake and other solid residues resulting from the extraction of oils and fats		Sunflower seed oil and its fractions not chemically modified	
	Rendered				Soya bean (081.31)	Sunflower (081.35)	Crude oil (421.52)	Refined (421.53)
	Edible (411.42)	Inedible (411.43)	Refined (411.38)					
1988-89	77,831	298,512	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1989-90	70,880	376,479	99,391	466,871	101,097	79,363	62,634	36,904
1990-91	77,792	372,214	96,412	480,718	105,331	54,620	54,088	35,124
1990—								
July	5,758	31,108	8,059	40,360	11,300	4,968	7,267	2,487
August	5,646	30,642	8,287	39,266	10,190	6,025	5,301	3,296
September	5,857	31,597	8,340	39,721	11,525	n.p.	3,993	3,054
October	7,102	35,061	8,924	43,471	4,025	n.p.	4,112	3,342
November	7,136	33,638	7,720	41,698	9,705	n.p.	3,363	2,808
December	6,671	28,580	7,994	37,573	13,339	n.p.	1,847	2,436
1991—								
January	6,733	27,957	5,936	36,290	7,507	—	1,106	1,889
February	6,666	31,268	8,540	39,372	7,292	3,513	4,262	3,600
March	6,682	30,652	8,822	39,733	4,918	6,329	6,899	3,188
April	6,119	29,394	7,600	39,930	5,952	7,368	5,789	2,756
May	7,502	34,212	7,704	45,457	10,430	7,362	5,239	3,404
June	5,921	28,105	8,484	37,848	9,147	6,464	4,911	2,863
July	5,943	29,937	8,675	40,316	8,039	5,857	7,600	4,291
August	4,587	28,550	6,713	37,534	5,996	8,410	7,505	4,782
September	4,988	30,785	6,813	39,519	5,532	5,174	5,161	3,927
1990-91: July to Sep.	17,260	93,347	24,687	119,346	33,015	n.p.	16,561	8,838
1991-92: July to Sep.	15,518	89,272	22,201	117,368	19,567	19,441	20,266	13,000

(a) Includes production of all meals whether sold separately or combined in prepared stock and poultry food. Includes liver meal, poultry offal meal, fish meal and whale meal. Excludes blood meal.

TABLE 18. CIGARETTES AND TOBACCO(a)
(tonnes)

Period	Original	Seasonally adjusted(b)	Trend(c)
1988-89	27,158	..	..
1989-90	27,318	..	..
1990-91	26,833	..	..
1990—			
July	2,437	2,289	2,347
August	2,960	2,616	2,350
September	1,977	2,271	2,312
October	2,263	2,144	2,260
November	2,651	2,281	2,219
December	1,649	2,019	2,215
1991—			
January	1,160	2,264	2,234
February	2,414	2,307	2,247
March	2,628	2,439	2,230
April	2,064	2,094	2,181
May	2,635	2,144	2,132
June	1,995	2,024	2,105
July	2,105	1,896	2,113
August	2,427	2,252	2,150
September	2,216	2,418	2,198
1990-91: July to Sep.	7,374	..	..
1991-92: July to Sep.	6,748	..	..

(a) Source: Australian Tobacco Marketing Advisory Committee. (b) See paragraph 5, Explanatory Notes.
(c) See paragraph 6 to 8, Explanatory Notes.

EXPLANATORY NOTES

Introduction

This publication is one of a series of ten containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 9.

Classification

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Most items are identified by the commodity codes used in the Australian Standard Commodity Classification (ASCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. In cases where data are derived from sources other than ABS collections no commodity code is shown and the source of the data is acknowledged in a footnote.

Scope and coverage

3. Manufacturing commodity statistics collected by the ABS exclude details relating to single establishment manufacturing enterprises with fewer than four persons employed and production of establishments predominantly engaged in non-manufacturing activities but which may carry on, in a minor way, some manufacturing. However, except for a few commodities the effect on production levels and movements is marginal.

4. Annual figures shown in this publication are derived by aggregating monthly/quarterly production and relate to production during the year ended 30 June. They may differ from annual manufacturing census data which relate to the census year and, in the case of businesses unable to report on a June year basis, include details in respect of substitute accounting periods.

Seasonal adjustment and trend estimates

5. This publication contains seasonally adjusted statistics of several items. In the seasonal adjustment account has been taken not only of normal seasonal factors but also, where appropriate, of 'working-day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months. However, care should be exercised in interpreting the figures for those months in which Christmas/New Year and Easter holidays fall as some manufacturers vary holiday shutdowns in the light of prevailing demand for their products. Details of the methods used in seasonally adjusting these and other series are available on request.

6. 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 have been derived by applying a 13-term Henderson weighted moving average to the seasonally adjusted series.

7. 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 little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

8. 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 of seasonally adjusted time series data.

Related publications

9. Other ABS publications which may be of interest are:

Manufacturing Production, Australia, Preliminary (8301.0) — issued monthly

Manufacturing Production, Australia, Household Appliances and Electrical Equipment (8357.0) — issued monthly

Manufacturing Production, Australia, Clothing and Footwear (8358.0) — issued monthly

Manufacturing Production, Australia, Fibres, Yarns, Fabrics, Bedding and Floor Coverings (8360.0) — issued monthly

Manufacturing Production, Australia, Building Materials and Fittings (8361.0) — issued monthly

Manufacturing Production, Australia, Plastics, Rubber, Paint, Detergents and Industrial Chemicals (8362.0) — issued monthly

Manufacturing Production, Australia, Transport Equipment (8363.0) — issued monthly

Manufacturing Production, Australia, Metal Products (8367.0) — issued monthly

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Manufacturing Production, Australia, Wood and Wood Products (8369.0) — issued monthly

Manufacturing Commodities: Selected Principal Articles Produced, Australia 1986-87, Preliminary (8365.0)

Manufacturing Commodities: Principal Articles Produced, Australia 1986-87 (8303.0)

10. 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 of Publications Advice* are available from any ABS office.

Symbols and other usages

- n.y.a. not yet available
- n.p. not available for separate publication (but included in totals where applicable)
- n.a. not available
- .. not applicable
- r revised since last issue
- nil or rounded to zero
- break in continuity of series (where a line is shown between consecutive figures in the same column)



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