



PRODUCTION BULLETIN NO. 6 : CHEMICALS AND BY-PRODUCTS AUSTRALIA, MAY 1983

PHONE INQUIRIES *for more information about these statistics*—contact Mr Leon Gerathy on Canberra (062) 52 5558 or any of our State offices.

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EXPLANATORY NOTES

Introduction

This publication is one of a series of eight containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 7 below.

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Where another authority is the source this is indicated in a footnote.

Classification

3. Most items are identified by Commodity Codes of the Commodity Classification used in Australian manufacturing statistics. However, in cases where data are derived from sources other than ABS collections no commodity code is shown. Further more, combinations of commodities are arranged so as to align production data with import and export commodity items in accordance with the Australian Standard Commodity Classification (ASCC). For further information regarding the ASCC, see the ABS publication *Australian Standard Commodity Classification, Part 1, Introduction Summary Classification and Commodity Keys*, 1978-79 (1207.0).

Scope and coverage

4. Production statistics collected by the ABS exclude production by single establishment manufacturing enterprises employing less than four persons 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.

5. Annual figures shown 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

6. 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 of 'trading-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. Details of the methods used in seasonally adjusting these and other series are given in *Seasonally Adjusted Indicators, Australia* (1308.0).

Related publications

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

Production Bulletin No. 1 : Electricity, Gas and Electrical Appliances, Australia (8357.0)—issued monthly

Production Bulletin No. 2 : Clothing and Footwear, Australia (8358.0)—issued monthly

Production Bulletin No. 3 : Food, Drink and Tobacco, Australia (8359.0)—issued monthly

Production Bulletin No. 4 : Textiles, Bedding and Floor Coverings, Australia (8360.0)—issued monthly

Production Bulletin No. 5 : Building Materials and Fittings, Australia (8361.0)—issued monthly

Production Bulletin No. 7 : Motor Vehicles, Parts and Accessories, Australia (8363.0)—issued monthly

Production Bulletin No. 8 : Miscellaneous Products, Australia (8364.0)—issued monthly

Manufacturing Commodities Selected Principal Articles Produced, Australia, (Preliminary) 1980-81 (8365.0)

Manufacturing Commodities, Principal Articles Produced, Australia, 1979-80 and 1980-81 (8303.0) (\$1.50, \$2.20 incl. postage)

8. Current publications produced by the ABS are listed in the *Catalogue of Publications, 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 separate publication (but included in totals where applicable)

... not applicable

— nil or rounded to zero

— break in continuity of series (where a line is drawn between two consecutive figures in the same column)

R. J. CAMERON
Australian Statistician

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CHEMICALS AND ACIDS

Period	Acids (in terms of 100% acid)					Super-phosphate(b) (415.07; 405.25)
	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Ammonium sulphate (405.36)	
			Original (401.57)	Seas. adj.(a) (401.57)		
	— tonnes —		— '000 tonnes —		tonnes	'000 tonnes
1979-80	62,693	179,654	2,175	..	202,846	4,202
1980-81	59,044	182,219	1,963	..	210,980	3,770
1981-82	54,617	179,858	2,027	..	206,539	3,568
1982—						
April	3,548	10,293	182	158	15,607	346
May	4,339	6,276	188	169	16,398	327
June	4,253	7,151	165	176	15,644	281
July	4,151	19,589	141	179	17,693	212
August	5,060	18,789	126	150	17,306	175
September	5,144	20,222	145	164	20,562	213
October	5,049	20,016	133	142	11,623	258
November	7,764	18,522	139	134	17,784	263
December	4,907	8,713	160	151	19,149	254
1983—						
January	4,968	17,639	164	148	17,600	262
February	4,689	15,859	154	155	13,526	240
March	4,787	10,493	167	148	13,702	296
April	4,817	15,240	150	131	13,785	293
May	4,033	11,225	158	141	18,138	327
1981-82: July to May	50,364	160,707	1,862	..	190,895	3,287
1982-83: July to May	55,369	176,307	1,638	..	180,868	2,795

PLASTICS AND SYNTHETIC RESINS(c)

For moulding, extrusion, laminating, calendering, etc.

Period	Phenolic (403.52)	Polyesters (403.62)	Poly-ethylene (403.65)	Poly-propylene (403.74)	Other(d)	Total
			—tonnes—			
1979-80	10,161	21,212	178,267	(e)	(1371,598	581,238
1980-81	9,151	23,729	191,821	(e)	(1370,097	594,800
1981-82	9,362	23,328	182,344	103,590	270,993	589,617
1982—						
April	729	1,744	19,985	9,812	17,513	49,783
May	585	2,081	14,969	7,362	20,217	45,214
June	468	1,652	18,457	10,895	25,455	56,927
July	762	1,723	15,572	9,967	21,343	49,367
August	655	1,466	15,958	8,152	23,017	49,248
September	491	1,614	17,950	4,920	24,417	49,392
October	642	1,715	18,576	9,865	25,638	56,436
November	469	1,689	18,317	10,653	20,531	51,659
December	352	1,949	14,856	7,519	19,000	43,676
1983—						
January	103	715	19,182	8,609	15,712	44,321
February	527	1,713	15,817	7,703	18,536	44,296
March	603	1,778	15,904	10,418	22,207	50,910
April	653	1,529	15,786	10,552	21,842	50,362
May	637	1,890	14,202	6,263	18,536	41,528
1981-82: July to May	8,894	21,676	163,887	92,695	245,538	532,690
1982-83: July to May	5,894	17,781	182,120	94,621	230,779	531,195

(a) See paragraph 6, Explanatory notes. (b) Includes double and triple superphosphates and ammonium phosphate expressed in terms of single phosphate i.e. 22% P₂O₅ equivalent. (c) Liquid resin or emulsion form are shown in terms of dry weight of resin content. (d) Code nos. 403.22, 73, 82, 90, 92, 94. (e) Included with code nos. 403.22, 73, 82, 90, 92, 94. (f) Includes polypropylene (code no. 403.74).

PLASTICS AND SYNTHETIC RESINS(a)—continued

For protective coatings, paints, etc.

Period	Acrylics (404.01)	Alkyds (404.02)	Phenolics (404.22)	Polyvinyl acetate (404.88)	Rosin esters (404.48)	Ureas and melamines (404.74)	Other (404.40, 62.94)	Total
—tonnes—								
1979-80	11,879	21,758	1,812	8,554	1,613	1,035	7,262	53,913
1980-81	10,792	20,286	1,472	8,687	1,528	1,765	7,059	51,629
1981-82	12,469	24,323	1,264	8,841	1,255	1,337	7,638	57,127
1982—								
April	1,072	1,545	99	589	115	105	705	4,230
May	913	1,440	83	787	95	92	657	4,067
June	840	1,435	80	762	99	66	726	4,008
July	846	1,311	92	531	83	100	786	3,749
August	966	1,388	69	677	38	49	635	3,822
September	929	1,472	75	491	107	89	730	3,893
October	1,012	1,588	64	820	60	105	777	4,426
November	1,057	1,749	59	789	91	121	841	4,707
December	1,113	1,448	86	1,077	88	46	833	4,691
1983—								
January	568	988	15	440	16	45	383	2,455
February	921	1,547	38	918	55	46	596	4,121
March	1,308	1,759	70	867	71	96	643	4,814
April	762	1,415	57	518	53	57	450	3,312
May	1,061	1,543	58	689	69	97	561	4,078
1981-82: July to May	11,629	22,888	1,184	8,079	1,156	1,271	6,912	53,119
1982-83: July to May	10,543	16,208	683	7,817	731	851	7,235	44,068

PLASTICS AND SYNTHETIC RESINS(a)—continued

For bonding and adhesives

Period	Polyvinyl acetate (404.90)	Other (404.34, 76.96)	Total	For other purposes(b) —all types(c)	Total for all purposes
—tonnes—					
1979-80	7,746	42,768	50,514	97,050	782,715
1980-81	5,180	44,532	49,712	93,068	789,209
1981-82	9,606	45,470	55,076	96,520	798,340
1982—					
April	765	3,466	4,231	9,212	67,456
May	747	3,103	3,850	5,748	58,879
June	838	4,132	4,970	9,009	74,914
July	695	3,715	4,410	8,807	66,333
August	726	3,624	4,350	8,498	65,918
September	978	3,927	4,905	6,400	64,590
October	746	3,321	4,067	9,312	74,241
November	604	3,364	3,968	10,404	70,738
December	645	2,151	2,796	7,637	58,800
1983—					
January	315	1,596	1,911	5,570	54,257
February	706	3,536	4,242	6,475	59,134
March	755	4,391	5,146	1,802	62,672
April	538	4,134	4,672	10,088	68,434
May	627	3,505	4,132	10,318	60,056
1981-82: July to May	8,768	41,338	50,106	87,511	723,426
1982-83: July to May	7,335	37,264	44,599	85,311	705,173

(a) Liquid resin or emulsion form are shown in terms of dry weight of resin content. (b) e.g. textile impregnation, paper treatment, etc. (c) Code nos. 404.36, 64, 78, 84, 98.

PAINTS AND OTHER SURFACE COATINGS

Period	Architectural and decorative paints, enamels and clear(a)				Industrial paints, enamels and clears (incl. lacquers and water thinned industrial products)(b)		
	Solvent thinned		Water thinned		Finishing coats		
	Primers and undercoats (410.01)	Finishing coats(c) (410.03, 05.07)	Plastic latex (410.11, 13.15)	Other water based (410.17)	Primers and undercoats (410.31,41)	Nitro- cellulose lacquers (410.33, 43.45)	Other (410.37, 47.49)
	— '000 litres—						
1979-80	11,331	27,897	42,462	1,997	11,005	5,422	35,574
1980-81	9,822	25,634	43,931	2,679	11,288	5,558	34,211
1981-82	9,519	24,066	47,729	3,159	12,276	5,744	36,397
1982—							
April	666	1,622	3,287	255	988	434	2,640
May	706	1,752	3,664	252	1,102	482	3,123
June	745	1,776	3,082	217	1,127	451	2,789
July	696	1,815	3,583	253	1,117	377	2,817
August	717	1,691	3,603	252	961	400	2,561
September	812	1,763	4,419	332	959	401	2,790
October	703	1,901	4,336	375	896	387	2,363
November	888	2,114	4,443	445	908	484	2,738
December	684	1,805	3,718	538	883	351	2,329
1983—							
January	570	1,460	3,072	394	430	190	1,163
February	681	2,012	3,840	439	701	428	2,351
March	843	2,191	4,299	427	932	494	2,817
April	644	1,486	3,129	226	730	365	2,139
May	713	1,571	3,703	316	905	477	2,382
1981-82 : July to May	8,773	22,290	44,647	2,942	11,149	5,294	33,607
1982-83 : July to May	7,950	19,809	42,147	3,996	9,422	4,353	26,852

PAINTS, ETC.—continued AND THINNERS

Period	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d) (410.57)	Marine coatings(e) (410.59)	Thinners		For all other coatings (410.87)
			Heavy duty coatings (410.55)	For nitro- cellulose coatings (410.85)	
			— '000 litres—		
1979-80	4,117	2,490	6,308	9,653	13,819
1980-81	4,137	2,485	7,120	9,901	13,333
1981-82	4,461	1,942	7,312	9,517	14,087
1982—					
April	322	146	613	656	997
May	350	151	722	770	1,214
June	312	161	713	822	1,157
July	306	162	842	779	1,293
August	288	178	638	691	1,079
September	460	164	721	799	1,074
October	369	119	722	700	1,094
November	496	93	746	916	1,067
December	379	119	684	640	1,006
1983—					
January	250	99	492	410	725
February	349	182	716	755	1,139
March	427	140	939	817	1,210
April	238	107	748	583	936
May	260	113	821	666	1,204
1981-82 : July to May	4,149	1,781	6,599	8,695	12,931
1982-83 : July to May	3,821	1,475	8,069	7,755	11,828

(a) Excludes heavy duty coatings. (b) Includes automotive. (c) Includes varnishes and clear plastic coatings such as floor treatment compounds and two-pack type coatings. (d) Includes part-pigmented, Madison and Creosote types for all uses including industrial. (e) Excludes super structure paints which are included with architectural and decorative paints.

PAINTS AND OTHER SURFACE COATINGS : STATES—MAY 1983

Code No.	Item	N.S.W.	Vic.	Qld	S.A.	W.A. and Tas.	Australia
(litres)							
Architectural and decorative paints, enamels and clears(a)—							
410.01	Solvent thinned—						
	Primers and undercoats	383,147	164,351	132,896	12,043	20,249	712,686
	Finishing coats, pigmented—						
410.03	Full gloss	435,586	261,118	171,382	27,326	29,297	924,709
410.05	Other than full gloss	179,469	153,892	45,096	10,028	12,782	401,267
410.07	Finishing coats, clears	140,834	75,922	14,089	7,113	7,037	244,995
	Water thinned—						
	Plastic latex—						
410.11	Primers and undercoats	134,873	79,130	54,328	7,070	3,887	279,288
	Finishing coats—						
410.13	Flat	1,071,486	570,115	179,756	65,423	140,753	2,027,533
410.15	Other than flat (satin, semi-gloss, gloss)	501,042	440,572	318,508	53,333	82,759	1,396,214
410.17	Other water based	149,099	133,324	n.p.	5,591	n.p.	316,316
Industrial paints, enamels and clears (includes lacquers and water thinned industrial products)—							
	Automotive—						
410.31	Primers and undercoats	76,439	284,746	n.p.	n.p.	—	402,487
	Finishing coats—						
410.33	Nitro-cellulose lacquers	14,372	n.p.	—	n.p.	—	23,767
410.37	Other	175,940	507,761	n.p.	n.p.	n.p.	805,216
	Other industrial—						
410.41	Primers and undercoats	152,422	235,066	71,440	30,035	13,642	502,605
	Nitro-cellulose lacquers—						
410.43	Clears	165,460	108,765	n.p.	19,506	n.p.	326,204
410.45	Colours	76,699	30,710	n.p.	n.p.	—	126,795
	Other—						
410.47	Clears	246,257	n.p.	n.p.	n.p.	n.p.	513,434
410.49	Colours	553,486	467,651	92,493	82,286	67,717	1,263,633
410.55	Heavy duty coatings	297,401	320,365	n.p.	18,376	n.p.	820,506
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b)	137,758	109,222	8,099	n.p.	n.p.	259,890
410.59	Marine coatings(c)	85,673	n.p.	n.p.	n.p.	n.p.	113,197
	Thinners—						
410.85	For nitro-cellulose coatings	300,943	195,455	80,315	58,122	30,769	665,604
410.87	For all other coatings	570,482	308,528	179,558	88,383	57,407	1,204,358

PAPER

Period	Newsprint (351.11)	Printings (351.18)	Writings and duplicating(d) (351.25,29)	Wrapping (351.41)(e)	Tissue and sanitary (351.51)	Other(f) (351.65)	Total
(tonnes)							
1979-80	221,460	91,277	119,053	380,600	109,616	29,649	951,655
1980-81	214,447	98,842	117,389	412,462	106,348	27,209	976,697
1981-82	307,183	91,912	101,471	369,316	107,396	26,733	1,004,011
1982—							
April	28,112	7,162	6,315	38,645	9,538	1,394	91,166
May	30,850	8,450	8,291	38,642	9,563	1,274	97,070
June	27,918	9,307	8,323	36,354	9,116	1,626	92,644
July	31,569	7,881	7,507	28,880	10,787	2,012	88,636
August	30,641	6,288	6,738	25,343	10,355	2,343	81,708
September	29,671	6,200	7,537	20,472	9,532	3,427	76,839
October	33,544	8,699	6,847	28,247	9,906	1,269	88,512
November	32,294	8,607	5,884	24,010	9,131	1,991	81,917
December	34,613	6,280	5,768	24,363	8,289	1,041	80,354
1983—							
January	33,037	7,287	12,140	23,149	9,949	2,903	88,465
February	27,579	7,266	5,925	24,355	9,403	3,337	77,865
March	28,436	9,379	6,120	24,804	7,440	3,496	79,675
April	31,653	7,678	6,570	21,973	10,014	3,010	80,898
May	33,077	8,101	6,919	26,071	8,983	2,321	85,472
1981-82 : July to May	279,265	82,605	93,148	332,962	98,280	25,107	911,367
1982-83 : July to May	346,114	83,666	77,955	271,667	103,789	27,150	910,341

(a) Excludes heavy duty coatings. (b) Includes part-pigmented, Madison and Creosote types for all uses including industrial. (c) Excludes super structure paints which are included with architectural and decorative paints. (d) Includes cartridge. (e) Includes Kraft. (f) Includes blotting paper.

PULP, PAPER BOARDS AND ADHESIVE TAPES

Period	Wood pulp(a)			Paper boards, all types(b) (352.01)	Adhesive tapes(c)			
	Chemical (341.32,36)	Mechanical (341.39)	Other (341.45)		Pressure sensitive (non-reinforced)(d)			
					Paper (769.51)	Cellulose (769.52)	Plastic (769.54)	Other(e) (769.52,59)
	—tonnes—				—'000 square metres—			
1979-80	168,727	215,292	313,839	478,899	8,206	4,109	11,549	397
1980-81	168,555	219,534	319,609	472,913	6,945	4,876	9,087	310
1981-82	180,844	218,577	273,812	453,559	5,064	3,357	8,719	327
1982—								
April	19,045	20,077	22,862	40,259	458	114	688	17
May	16,165	18,806	26,715	40,969	477	295	848	8
June	20,066	19,050	21,668	46,853	330	330	681	87
July	19,446	19,139	23,153	33,324	419	338	1,888	90
August	13,117	20,566	23,607	32,716	487	269	827	43
September	15,939	18,647	19,331	33,011	532	238	766	38
October	20,066	20,420	24,266	48,690	402	215	804	35
November	16,767	19,212	22,025	38,874	189	414	660	36
December	12,553	18,946	13,388	36,540	214	223	329	35
1983—								
January	12,448	20,030	20,416	32,439	27	82	126	20
February	11,946	19,371	17,792	32,859	239	252	410	55
March	11,288	15,189	16,967	30,897	313	303	671	32
April	12,132	18,517	17,726	38,154	267	165	252	54
May	10,625	16,461	19,758	28,013	296	364	432	17
1981-82: July to May	160,778	199,527	252,144	406,706	4,735	3,026	8,038	241
1982-83: July to May	156,327	209,498	218,429	385,517	3,386	2,863	7,165	455

SOAP

Period	For other purposes.		
	Non-abrasive, powder and granule in small packs(f)		
	For personal toilet use		
	Solid (805.01)	Shampoo (805.08)	(805.26)
	—tonnes—		
1979-80	(g)28,208	1,625	5,624
1980-81	(g)28,318	1,435	4,113
1981-82	(g)31,699	1,595	3,673
1982—			
April	(g)2,190	126	233
May	(g)2,722	125	137
June	(g)3,026	143	481
July	3,154	156	n.p.
August	2,486	95	n.p.
September	2,526	118	n.p.
October	2,783	97	n.p.
November	2,473	72	n.p.
December	1,863	78	n.p.
1983—			
January	1,364	58	n.p.
February	2,287	113	n.p.
March	2,287	125	n.p.
April	2,660	94	n.p.
May	2,442	96	n.p.
1981-82: July to May	(g)28,673	1,452	3,192
1982-83: July to May	26,325	1,102	n.p.

(a) Quantities shown represent tonnes air-dried. (b) Paper exceeding 205 grammes per square metre is classified as paperboard. (c) Excludes friction and surgical tapes. (d) Original production only. Excludes tape converted from rolls purchased or transferred in. (e) Includes cloth. (f) Containing 3 kg or less. Excludes dairy cleansers regardless of pack size. (g) Prior to July 1982 includes soap for personal use in powder form.

DETERGENTS

Period	Synthetic							
	Non-abrasive						Other than synthetic	
	Abrasives cleaners and scourers	For personal toilet use		For other purposes		Powder and granule		
		Shampoo	Liquid paste and cream	Liquid, paste and cream				
				Small packets(a)	Large packets(b)			
	(806.20,22)	(806.06)	(806.04)	(806.16)	(806.34)	(806.14,32)	(806.40)	(806.44)
				—tonnes—				
1979-80	9,383	10,376	(c)1,583	60,873	33,014	86,421	21,468	6,999
1980-81	7,855	10,817	(c)2,906	65,259	35,369	76,738	22,012	6,529
1981-82	7,650	11,403	(c)1,606	67,160	34,481	83,175	24,182	5,910
1982—								
April	607	860	(f)163	4,768	2,610	7,204	2,226	804
May	536	961	(c)168	4,947	2,306	6,912	1,934	268
June	596	839	(c)83	5,242	3,368	6,567	2,193	450
July	865	976	206	6,031	2,483	7,316	2,274	478
August	496	943	240	6,395	2,550	6,393	2,189	444
September	485	1,071	163	5,706	2,745	7,131	2,137	713
October	766	941	211	6,034	2,762	7,456	2,395	514
November	716	897	230	6,301	2,504	7,987	2,391	537
December	328	868	192	5,828	2,659	5,967	2,167	455
1983—								
January	415	598	96	3,264	1,668	4,286	1,884	339
February	672	950	157	5,471	2,781	8,327	2,634	469
March	711	909	231	5,314	2,971	6,632	2,739	584
April	928	950	174	5,071	2,577	7,601	2,575	517
May	593	1,015	210	5,696	2,696	6,489	2,251	579
1981-82 : July to May	7,054	10,564	1,523	61,918	31,113	76,608	21,989	5,460
1982-83 : July to May	6,975	10,118	2,110	61,111	28,396	75,585	25,636	5,629

PLASTICS FILM, SHEETING AND COATED MATERIALS

	Unsupported plastics film, foil and sheeting— by polymer type(d)			Plastic coated materials,(e)
	Vinyl chloride incl. co-polymers (423.08)	Polyethylene (423.28)	Other (423.38)	
	—tonnes—			
				'000 m ²
1979-80	17,465	88,920	23,759	10,498
1980-81	17,854	83,340	22,890	9,245
1981-82	18,332	81,723	18,817	8,819
1982—				
April	1,129	6,014	1,219	n.p.
May	1,298	7,111	1,365	n.p.
June	1,662	7,721	1,569	n.p.
July	1,618	6,829	1,266	768
August	1,704	7,485	1,381	827
September	1,786	6,932	1,385	873
October	1,651	7,031	1,526	696
November	1,710	7,098	1,447	633
December	1,197	5,122	1,091	552
1983—				
January	675	4,691	718	238
February	1,029	6,670	1,205	428
March	1,456	7,375	1,541	609
April	1,236	6,503	1,292	473
May	1,261	7,138	1,238	839
1981-82 : July to May	16,670	74,002	17,248	n.p.
1982-83 : July to May	15,324	72,874	14,088	6,935

(a) Containing 3 kg or less. Excludes dairy cleansers regardless of pack size. (b) Containing 3 kg or more. Includes dairy cleansers regardless of pack size. (c) Prior to July 1982 includes solid and powder forms for personal use. (d) Rigid and flexible (includes by flat tubing) — not profile. Includes film or sheet used in further production in the same establishment. (e) Area of completion of final coating by any method including laminating on continuous supporting materials. Includes production of the specified combinations even if subsequently used in the same establishment for further processing. Excludes coating intended for adhesive purposes in the production of laminates. (f) On knitted or woven textile material.