



## PRODUCTION BULLETIN NO. 6 : CHEMICALS AND BY-PRODUCTS AUSTRALIA, MAY 1984

- PHONE INQUIRIES** *for more information about these statistics*—contact Sue Gumprich on Canberra (062) 52 5558 or any of our State offices.
- other inquiries including copies of publications*—contact Information Services on Canberra (062) 52 6627 or in any of our State offices.
- MAIL INQUIRIES** *write to* Information Services, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any of our State offices.

### 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* (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 : 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 quarterly

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

*Manufacturing Commodities Selected Principal Articles Produced, Australia, 1981-82* (Preliminary) (8365.0)

*Manufacturing Commodities, Principal Articles Produced, Australia, 1980-81 and 1981-82* (8303.0)

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 (403.36)	
			Original	Seas. adj.(a) (401.57)		
	— tonnes —		— '000 tonnes —		tonnes	'000 tonnes
1980-81	59,044	182,219	1,963	..	210,980	3,770
1981-82	54,617	179,858	2,027	..	206,539	3,568
1982-83	60,186	189,371	1,782	..	199,786	2,986
<b>1983—</b>						
April	4,817	15,240	150	133	13,785	293
May	4,033	11,225	158	142	18,138	327
June	4,817	13,064	144	151	18,918	200
July	4,990	15,792	121	149	14,893	138
August	3,651	16,747	121	152	14,414	173
September	3,666	17,967	94	100	15,411	109
October	4,832	14,667	118	129	17,128	140
November	5,322	15,100	146	145	20,181	259
December	5,404	8,754	169	156	27,129	250
<b>1984—</b>						
January	4,591	13,326	182	163	17,168	277
February	4,856	14,773	150	149	21,483	289
March	5,073	23,253	175	150	13,867	305
April	4,632	19,666	172	155	22,096	253
May	4,962	15,011	170	156	19,105	299
1982-83 : July to May	55,369	176,307	1,638	..	180,868	2,786
1983-84 : July to May	51,979	175,056	1,620	..	202,875	2,492

## PLASTICS AND SYNTHETIC RESINS(c)

For moulding, extrusion, laminating, calendaring, etc.

Period	Phenolic (403.52)	Polyesters (403.62)	Poly-ethylene (403.65)	Poly-propylene (403.74)	Other(d)	Total
1980-81	9,153	23,729	191,821	(e)	(f)370,097	594,800
1981-82	9,362	23,328	182,344	103,590	270,993	589,617
1982-83	6,444	19,293	200,859	103,012	253,410	583,018
<b>1983—</b>						
April	653	1,529	15,786	10,552	21,842	50,362
May	637	1,890	14,202	6,263	18,536	41,528
June	550	1,512	18,739	8,391	22,631	51,823
July	668	1,460	17,324	11,562	24,599	55,613
August	609	1,714	20,926	10,283	22,664	56,196
September	667	1,724	18,378	10,922	20,677	52,368
October	702	2,012	18,842	11,000	26,907	59,463
November	820	2,270	17,926	9,438	25,168	55,622
December	583	1,835	17,013	12,974	22,399	54,804
<b>1984—</b>						
January	373	1,297	18,483	12,071	15,612	47,836
February	674	2,185	17,920	11,115	24,714	56,608
March	755	2,260	18,216	6,764	26,765	54,760
April	666	1,825	18,081	10,650	24,188	55,410
May	775	2,340	20,175	13,917	23,892	61,099
1982-83 : July to May	5,894	17,781	182,120	94,621	230,779	531,195
1983-84 : July to May	7,292	20,922	203,284	120,696	257,585	609,779

(a) See paragraph 6, Explanatory notes. (b) Includes double and triple superphosphates and ammonium phosphate expressed in terms of single phosphate i.e. 22% P<sub>2</sub>O<sub>5</sub> 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

Period	For protective coatings, paints, etc.							Total
	Acrylics (404.01)	Alkyds (404.02)	Phenolics (404.32)	Polyvinyl acetate (404.88)	Rosin esters (404.48)	Ureas and melamines (404.74)	Other (404.40, 62.94)	
	—tonnes—							
1980-81	10,792	20,286	1,472	8,687	1,528	1,765	7,099	51,629
1981-82	12,469	24,323	1,264	8,841	1,255	1,337	7,638	57,127
1982-83	11,277	17,634	782	8,696	865	945	7,781	47,980
1983—								
April	762	1,415	57	518	53	57	450	3,312
May	1,061	1,543	68	689	93	97	546	4,097
June	734	1,426	89	879	110	94	561	3,893
July	771	1,294	89	651	66	82	470	3,423
August	871	1,588	56	930	53	119	631	4,248
September	1,181	1,574	61	777	65	76	689	4,423
October	1,324	1,638	54	880	57	131	671	4,755
November	1,282	2,050	79	999	105	117	639	5,271
December	1,112	1,581	65	883	92	64	427	4,224
1984—								
January	698	1,296	35	405	55	80	500	3,069
February	1,376	1,912	43	988	50	102	555	5,026
March	1,062	1,583	70	869	116	90	623	4,413
April	1,122	1,399	53	651	143	76	477	3,921
May	1,265	2,077	89	929	101	132	634	5,227
1982-83: July to May	10,543	16,208	693	7,817	755	851	7,220	44,087
1983-84: July to May	12,064	17,992	694	8,962	903	1,069	6,316	48,000

## PLASTICS AND SYNTHETIC RESINS(a)—continued

Period	For bonding and adhesives					Total	For other purposes(b) —all types(c)	Total for all purposes
	Polyvinyl acetate (404.90)	Other (404.34, 76.96)						
	—tonnes—							
1980-81		5,180	44,532		49,712	93,068	789,209	
1981-82		9,606	47,891		57,497	96,478	800,719	
1982-83			8,116	42,784	50,900	93,830	775,728	
1983—								
April		538	4,234		4,772	9,987	68,433	
May		627	3,645		4,272	10,214	60,111	
June		781	4,382		5,163	9,692	70,571	
July		726	3,417		4,143	8,089	71,268	
August		733	4,021		4,754	10,189	75,387	
September		824	4,408		5,232	8,503	70,526	
October		800	4,267		5,067	10,096	79,381	
November		770	4,204		4,974	9,766	75,633	
December		558	3,660		4,218	7,064	70,310	
1984—								
January		370	2,342		2,712	6,858	60,475	
February		883	4,249		5,132	8,116	74,882	
March		894	5,386		6,280	8,631	74,084	
April		560	4,040		4,600	6,504	70,435	
May		919	4,873		5,792	5,123	77,241	
1982-83: July to May		7,335	38,402		45,737	84,138	705,157	
1983-84: July to May		8,037	44,867		52,904	88,939	799,622	

(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—						
1980-81	9,822	25,634	43,931	2,679	11,288	5,558	34,211
1981-82	9,519	24,066	47,729	3,218	12,276	5,744	36,397
1982-83	8,433	21,377	45,262	4,225	10,214	4,726	29,404
1983—							
April	644	1,476	3,129	220	730	365	2,139
May	713	1,571	3,703	307	905	477	2,582
June	483	1,568	3,115	272	791	373	2,552
July	618	1,431	3,098	256	632	395	2,525
August	712	1,703	3,743	290	887	409	2,789
September	795	2,148	4,360	329	942	449	2,916
October	745	1,926	4,179	352	952	419	2,665
November	966	2,362	5,882	379	1,052	561	3,449
December	750	1,833	4,000	383	779	408	2,620
1984—							
January	533	1,490	3,585	305	499	190	1,512
February	786	2,039	4,621	351	1,020	400	3,052
March	701	1,861	4,425	300	1,018	502	2,930
April	515	1,547	3,501	252	827	369	2,708
May	640	2,067	4,719	351	1,175	433	3,168
1982-83 : July to May	7,950	19,809	42,147	3,954	9,422	4,353	26,852
1983-84 : July to May	7,761	20,408	46,114	3,548	9,785	4,535	30,334

## 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—					
1980-81	4,137	2,485	7,120	9,901	13,333
1981-82	4,461	2,214	7,312	9,517	14,087
1982-83	4,038	1,611	8,997	8,340	12,876
1983—					
April	238	107	744	583	936
May	260	113	819	666	1,204
June	254	136	954	585	1,048
July	251	132	716	634	1,066
August	308	110	614	654	1,078
September	387	113	528	713	1,136
October	339	108	477	745	1,110
November	521	118	597	850	1,176
December	463	116	459	627	973
1984—					
January	236	87	365	406	781
February	405	133	586	743	1,266
March	323	134	564	872	1,253
April	298	57	522	665	931
May	318	150	623	728	1,304
1982-83 : July to May	3,784	1,475	8,043	7,755	11,828
1983-84 : July to May	3,850	1,257	6,051	7,638	12,075

(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 1984

Code No.	Item	N.S.W.	Vic.	Qld	S.A.	W.A. and Tas.	Australia
		('000 litres)					
	Architectural and decorative paints, enamels and clears(a)—						
	Solvent thinned—						
410.01	Primers and undercoats	285	202	124	6	23	640
	Finishing coats, pigmented—						
410.03	Full gloss	654	420	204	n.p.	n.p.	1,343
410.05	Other than full gloss	234	205	n.p.	n.p.	22	525
410.07	Finishing coats, clears	102	67	n.p.	n.p.	7	199
	Water thinned—						
	Plastic latex—						
410.11	Primers and undercoats	125	118	64	n.p.	n.p.	329
	Finishing coats—						
410.13	Flat	1,088	765	356	n.p.	n.p.	2,437
410.15	Other than flat (satin, semi-gloss, gloss)	704	640	484	n.p.	n.p.	1,953
410.17	Other water based	135	159	n.p.	n.p.	14	351
	Industrial paints, enamels and clears (include lacquers and water thinned industrial products)—						
	Automotive—						
410.31	Primers and undercoats	109	417	n.p.	n.p.	—	562
	Finishing coats—						
410.33	Nitro-cellulose lacquers	16	28	—	3	—	47
410.37	Other	126	534	n.p.	n.p.	n.p.	757
	Other industrial—						
410.41	Primers and undercoats	196	244	121	18	34	613
	Finishing coats—						
	Nitro-cellulose lacquers—						
410.43	Clears	120	122	n.p.	n.p.	10	304
410.45	Colours	45	19	n.p.	n.p.	—	82
	Other—						
410.47	Clears	276	310	n.p.	n.p.	n.p.	606
410.49	Colours	805	725	100	85	89	1,804
410.55	Heavy duty coatings	255	151	n.p.	n.p.	48	623
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b)	158	126	n.p.	n.p.	n.p.	318
410.59	Marine coatings(c)	n.p.	31	n.p.	n.p.	19	150
	Thinners—						
410.85	For nitro-cellulose coatings	262	300	103	32	32	728
410.87	For all other coatings	543	367	208	114	71	1,304

## PAPER

Period	Newsprint (351.11)	Printings (351.18)	Writings and duplicating(d) (351.23,29)	Wrapping (351.61e)	Tissue and sanitary (351.51)	Other(f) (351.65)	Total
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
1982-83	375,727	94,422	84,326	298,620	112,811	29,282	995,188
1983—							
April	31,653	7,678	6,570	21,973	10,014	3,010	80,898
May	33,077	8,101	6,919	28,351	8,983	2,321	87,752
June	29,613	10,756	6,371	24,673	9,022	2,132	82,567
July	31,325	8,206	7,893	27,503	10,810	2,308	88,045
August	34,326	9,443	7,274	23,383	9,973	2,808	87,207
September	33,613	11,501	7,021	28,000	7,906	1,698	91,539
October	31,220	10,218	7,619	23,639	11,071	1,787	85,554
November	26,680	11,967	7,004	24,888	10,426	1,350	82,315
December	28,038	12,062	6,581	33,341	9,343	1,309	90,674
1984—							
January	32,653	8,935	10,849	24,788	12,380	1,556	91,161
February	31,502	11,562	7,180	33,962	10,691	1,849	96,746
March	33,208	11,076	7,770	27,936	9,693	1,257	90,940
April	31,588	10,712	6,484	29,169	11,321	2,363	91,637
May	33,811	9,544	6,058	23,085	9,712	928	83,138
1982-83 : July to May	346,114	83,666	77,955	273,947	103,789	27,150	912,621
1983-84 : July to May	347,964	115,226	81,733	299,694	115,126	19,213	978,956

(a) Excludes heavy duty coatings. (b) Includes part-pigmented, Madison and Crosstite 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)				Adhesive tapes(c)			
	Chemical (341.32.36)	Mechanical (341.39)	Other (341.45)	Paper boards, all types(b) (352.01)	Pressure sensitive (non-reinforced)(d)			
					Paper (769.51)	Cellulose (769.53)	Plastic (769.54)	Other(e) (769.52.39)
—tonnes—					—'000 square metres—			
1980-81	168,555	219,534	319,609	472,913	6,945	(f)4,109	9,855	310
1981-82	180,844	218,577	273,812	461,297	5,064	3,357	11,093	327
1982-83	171,468	227,557	244,439	434,788	3,816	3,011	13,002	485
1983—							(g)	
April	12,132	18,517	17,726	39,463	267	165	792	54
May	10,625	16,461	19,758	28,932	296	364	1,197	17
June	15,141	18,059	26,010	35,478	430	147	1,179	30
July	14,798	19,830	26,254	34,870	331	141	1,235	38
August	14,285	18,939	20,648	36,353	515	198	1,259	48
September	14,481	19,417	21,695	40,150	407	179	821	32
October	12,386	18,614	18,879	37,427	n.p.	215	929	36
November	11,043	16,729	17,989	37,804	n.p.	187	792	52
December	12,034	19,051	18,493	39,127	n.p.	185	729	53
1984—								
January	17,130	17,912	17,803	25,244	n.p.	107	693	n.p.
February	15,161	19,355	17,339	37,399	n.p.	297	1,111	n.p.
March	18,031	20,820	22,059	36,467	n.p.	(f)271	1,316	n.p.
April	17,818	20,455	21,492	37,425	n.p.	193	847	n.p.
May	18,678	19,789	18,952	35,841	n.p.	233	1,321	n.p.
1982-83 : July to May	156,327	209,498	218,429	399,310	3,386	2,863	10,626	455
1983-84 : July to May	165,845	210,911	221,603	398,607	n.p.	2,207	11,053	n.p.

## SOAP

Period	For personal toilet use	
	Solid (805.01)	Sham poo (805.08)
—tonnes—		
1980-81	(g)28,318	1,435
1981-82	(g)31,699	1,595
1982-83	29,163	1,167
1983—		
April	2,660	94
May	2,442	96
June	2,838	65
July	3,396	107
August	2,226	51
September	2,647	103
October	2,450	87
November	2,460	n.p.
December	2,458	n.p.
1984—		
January	1,739	n.p.
February	2,601	n.p.
March	3,230	n.p.
April	2,086	n.p.
May	2,543	n.p.
1982-83 : July to May	26,325	1,102
1983-84 : July to May	28,376	n.p.

(a) Quantities shown represent tonnes air-dried. (b) Paper exceeding 205 grammes per square metre is classified as paper-board. (c) Excludes friction and surgical tapes. (d) Original production only. Excludes tape converted from rolls purchased or transferred in. (e) Includes cloth. (f) Figure revised substantially since last issue. (g) Series revised substantially since last issue. (h) 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				
		Small packets (806.20.22)	Shampoo (806.06)	Liquid paste and cream (806.04)	Small packets (806.16)	Large packets (806.14)		Powder and granule (806.14.32)
						Alkaline (806.40)	Emulsion cleaners (806.44)	
	—tonnes—							
1980-81	8,455	10,817	(d)2,906	65,259	35,369	76,738	22,012	6,529
1981-82	7,982	11,403	(d)1,606	72,619	34,481	83,175	24,182	5,910
1982-83	8,189	(c)14,159	2,258	73,330	34,078	82,849	28,000	6,104
1983—	(c)							
April	982	1,216	174	6,314	2,881	7,601	2,575	517
May	620	1,322	210	7,287	2,862	6,489	2,251	579
June	773	1,198	158	6,302	3,430	7,264	2,364	475
July	846	1,155	149	6,785	2,554	8,806	2,472	509
August	256	1,008	191	8,466	3,143	7,832	2,539	563
September	736	1,133	184	5,167	8,096	6,017	2,687	316
October	785	1,168	157	5,189	2,860	7,185	2,745	547
November	553	998	221	5,079	3,169	9,973	2,958	616
December	455	1,036	157	4,425	3,144	8,492	2,534	507
1984—								
January	349	825	123	3,385	2,088	4,922	2,255	447
February	738	941	198	5,302	2,983	9,948	2,810	581
March	761	1,179	200	6,742	3,003	8,087	3,206	583
April	554	961	171	5,446	2,490	7,992	2,653	564
May	985	1,298	257	6,166	2,816	7,099	3,021	548
1982-83 : July to May	7,416	12,961	2,100	67,028	30,648	75,585	25,636	5,629
1983-84 : July to May	7,018	11,702	2,008	62,152	32,346	86,353	29,880	5,981

## PLASTICS FILM, SHEETING AND COATED MATERIALS

Period	Unsupported plastics film, foil and sheeting— by polymer type(d)			vinyl chloride(f) (424.31)
	Vinyl chloride incl. co-polymers (423.08)	Polyethylene (423.28)	Other (423.38)	
	—tonnes—			
1980-81	17,854	83,940	22,890	9,245
1981-82	18,332	81,723	18,817	8,225
1982-83	16,765	81,240	15,846	7,181
1983—				
April	1,227	6,617	1,301	427
May	1,250	7,251	1,249	774
June	1,560	7,116	1,637	792
July	1,169	6,929	1,247	700
August	1,367	7,695	1,600	710
September	1,232	7,573	1,561	670
October	1,259	7,759	1,534	725
November	1,252	8,334	1,831	676
December	1,125	5,967	1,285	473
1984—				
January	397	5,463	860	239
February	1,146	7,592	1,643	581
March	1,425	7,799	1,686	852
April	958	7,465	1,348	603
May	1,435	9,068	1,113	806
1982-83 : July to May	15,203	74,124	14,209	6,389
1983-84 : July to May	12,766	81,644	15,909	6,996

(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) Series revised substantially since last issue. (d) Prior to July 1982 includes solid and powder forms for personal use. (e) Rigid and flexible (includes lay flat tubing)—not profile. Includes film or sheet used in further production in the same establishment. (f) 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. (g) On knitted or woven textile material.