



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

PHONE INQUIRIES for more information about these statistics—contact Sue Gumprich 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* (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, (Preliminary) 1981-82 (8365.0)

Manufacturing Commodities, Principal Articles Produced, Australia, 1979-80 and 1980-81 (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)					
	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Ammonium sulphate (405.36)	Super- phosphate(b) (415.07; 405.23)
			Original (401.57)	Seas. adj.(a)		
	— 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
1982—						
October	5,049	20,016	133	144	11,623	249
November	7,764	18,522	139	134	17,784	263
December	4,907	8,713	160	152	19,149	254
1983—						
January	4,968	17,639	164	149	17,600	262
February	4,689	15,859	154	154	13,526	240
March	4,787	10,493	167	148	13,702	296
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
1982-83: July to Nov.	27,168	97,138	684	..	84,968	1,113
1983-84: July to Nov.	22,461	80,273	601	..	82,027	819

PLASTICS AND SYNTHETIC RESINS(c)

For moulding, extrusion, laminating, calendaring, etc.

Period	Phenolic (403.52)	P-lyesters (403.62)	Poly- ethylene (403.65)	Poly- propylene (403.74)	Other(d)	Total
			—tonnes—			
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
1982—						
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
June	550	1,512	18,739	8,391	22,631	51,823
July	668	1,399	17,324	11,562	24,599	55,552
August	609	1,622	20,926	10,283	22,664	56,104
September	667	1,632	18,378	10,922	20,677	52,276
October	702	1,980	18,842	11,000	26,907	59,431
November	820	2,151	15,483	9,438	27,366	55,258
1982-83 : July to Nov.	3,019	8,207	86,373	43,557	114,946	256,102
1983-84 : July to Nov.	3,466	8,784	90,953	53,205	122,213	278,621

(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

Period	For protective coatings, paints, etc.						Total
	Acrylics (404.01)	Alkyds (404.02)	Phenolics (404.32)	Polyvinyl acetate (404.88)	Resin 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	51,629
1981-82	12,469	24,323	1,264	8,841	1,255	1,337	57,127
1982-83	11,277	17,634	782	8,696	865	945	47,980
1982—							
October	1,012	1,588	64	820	60	105	4,426
November	1,057	1,749	59	789	91	121	4,707
December	1,113	1,448	86	1,077	88	46	4,691
1983—							
January	568	988	15	440	16	45	2,455
February	921	1,547	38	918	55	46	4,121
March	1,308	1,759	70	867	71	96	4,814
April	762	1,415	57	518	53	57	3,312
May	1,061	1,543	68	689	93	97	4,097
June	734	1,426	89	879	110	94	3,893
July	771	1,294	89	651	66	82	3,423
August	871	1,588	56	930	53	119	4,248
September	1,181	1,574	61	777	65	76	4,423
October	1,324	1,638	54	880	57	131	4,755
November	1,282	2,050	79	999	105	104	5,258
1982-83 : July to Nov.	4,810	7,508	359	3,308	379	464	20,597
1983-84 : July to Nov.	5,429	8,144	339	4,237	346	512	22,107

PLASTICS AND SYNTHETIC RESINS(a)—continued

Period	For bonding and adhesives			For other purposes(b) —all types(c)	Total for all purposes
	Polyvinyl acetate (404.90)	Other (404.34, 76.96)	Total		
—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	94,300	776,198
1982—					
October	746	3,436	4,182	9,249	74,293
November	604	3,480	4,084	10,326	70,776
December	645	2,233	2,878	7,583	58,828
1983—					
January	315	1,633	1,948	5,556	54,280
February	706	3,591	4,297	6,424	59,138
March	755	4,525	5,280	1,738	62,742
April	538	4,234	4,772	10,016	68,462
May	627	3,645	4,272	10,223	60,120
June	781	4,382	5,163	9,692	70,571
July	726	3,417	4,143	8,089	71,207
August	733	4,021	4,754	10,189	75,295
September	824	4,408	5,232	8,503	70,434
October	800	4,267	5,067	10,096	79,349
November	770	4,204	4,974	9,766	75,256
1982-83 : July to Nov.	3,749	18,541	22,290	43,068	342,057
1983-84 : July to Nov.	3,853	20,317	24,170	46,643	371,541

(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
1982—							
October	703	1,901	4,336	356	896	387	2,563
November	888	2,114	4,443	422	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	450	701	428	2,351
March	843	2,191	4,299	441	932	494	2,817
April	644	1,486	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	2,579
August	712	1,703	3,743	290	887	409	2,871
September	795	2,148	4,360	329	942	449	2,998
October	745	1,926	4,179	352	952	419	2,693
November	966	2,360	5,882	379	1,052	561	3,556
1982-83 : July to Nov.	3,816	9,284	20,385	1,603	4,840	2,048	13,469
1983-84 : July to Nov.	3,837	9,569	21,261	1,605	4,465	2,234	14,697

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		
			Heavy duty coatings (410.55)	For nitro- cellulose coatings (410.85)	For all other coatings (410.87)
			— '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
1982—					
October	369	119	722	700	1,094
November	496	93	745	916	1,067
December	379	119	683	640	1,006
1983—					
January	250	99	491	410	725
February	312	182	702	755	1,139
March	427	140	938	817	1,210
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	553	850	1,176
1982-83 : July to Nov.	1,919	715	3,667	3,885	5,608
1983-84 : July to Nov.	1,807	581	2,889	3,396	5,566

(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—NOVEMBER 1983

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	446	248	234	14	24	966
Finishing coats, pigmented—							
410.03	Full gloss	778	432	253	21	47	1,531
410.05	Other than full gloss	220	239	n.p.	n.p.	24	557
410.07	Finishing coats, clears	135	92	n.p.	n.p.	6	271
Water thinned—							
Plastic latex—							
410.11	Primers and undercoats	211	135	n.p.	n.p.	5	418
Finishing coats—							
410.13	Flat	1,900	707	269	93	232	3,201
410.15	Other than flat (satin, semi-gloss, gloss)	986	590	570	43	74	2,263
410.17	Other water based	97	181	n.p.	n.p.	n.p.	379
Industrial paints, enamels and clears (includes lacquers and water thinned industrial products)—							
Automotive—							
410.31	Primers and undercoats	50	383	n.p.	n.p.	—	465
Finishing coats—							
410.33	Nitro-cellulose lacquers	20	n.p.	—	n.p.	—	31
410.37	Other	n.p.	661	n.p.	n.p.	n.p.	890
Other industrial—							
410.41	Primers and undercoats	186	242	97	37	22	587
Nitro-cellulose lacquers—							
410.43	Clears	136	171	n.p.	17	n.p.	385
410.45	Colours	91	26	n.p.	n.p.	—	145
Other—							
410.47	Clears	271	343	n.p.	n.p.	n.p.	638
410.49	Colours	981	748	101	101	97	2,027
410.55	Heavy duty coatings	267	138	n.p.	6	n.p.	553
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b)	359	123	n.p.	n.p.	n.p.	521
410.59	Marine coatings(c)	n.p.	n.p.	n.p.	n.p.	n.p.	118
Thinners—							
410.85	For nitro-cellulose coatings	334	317	110	n.p.	n.p.	850
410.87	For all other coatings	483	315	174	128	76	1,176

PAPER

Period	Newsprint (351.11)	Printings (351.18)	Writings and duplicating(d) (351.25,29)	Wrapping (351.61)(e)	Tissue and sanitary (351.51)	Other(f) (351.65)	Total
(tonnes)							
1980-81	214,447	98,842	117,389	412,462	106,348	27,209	976,697
1981-82	307,183	91,602	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
1982— 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	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	23,628	10,660	2,308	84,020
August	34,326	9,443	7,274	26,567	9,823	2,808	90,241
September	33,613	11,501	7,021	28,000	9,406	1,698	91,239
October	31,220	10,218	7,619	20,234	10,771	1,787	81,849
November	26,680	11,737	7,004	24,888	10,126	1,301	81,736
1982-83 : July to Nov.	157,719	37,675	34,513	126,952	49,711	11,042	417,612
1983-84 : July to Nov.	157,164	51,105	36,811	123,317	50,786	9,902	429,085

(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 (769.53)	Plastic (769.54)	Other (769.52,59)	
—tonnes—					—'000 square metres—				
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	
1982-83	171,468	227,557	244,439	420,331	3,816	3,011	7,573	485	
1982—									
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	18,189	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	
June	15,141	18,059	26,010	34,814	420	147	407	30	
July	14,798	19,830	26,254	33,702	331	141	401	38	
August	14,285	18,939	20,648	35,544	515	198	283	48	
September	15,468	19,417	21,695	38,847	407	179	349	32	
October	12,386	18,614	18,879	39,914	n.p.	215	274	36	
November	11,043	16,729	17,989	36,595	n.p.	187	197	52	
1982-83: July to Nov.	85,335	97,984	112,382	186,615	2,030	1,474	4,945	242	
1983-84: July to Nov.	67,980	93,529	105,465	184,602	n.p.	920	1,504	206	

SOAP

Period	For personal toilet use	
	Solid (805.01)	Shampoo (805.08)
	—tonnes—	
1980-81	(1)28,318	1,435
1981-82	(1)31,699	1,395
1982-83	29,163	1,167
1982—		
October	2,783	97
November	2,473	72
December	1,863	78
1983—		
January	1,364	58
February	2,287	113
March	2,287	125
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.
1982-83: July to Nov.	13,422	538
1983-84: July to Nov.	13,179	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) Prior to July 1982 includes soap for personal use in powder form.

DETERGENTS

Period	Synthetic								
	Non-abrasive							Other than synthetic	
	Abrasive cleaners and scourers	For personal toilet use		For other purposes		Powder and granule	Alkaline		Emulsion cleansers
		Shampoo	Liquid paste and cream	Liquid, paste and cream					
				Small packs(a)	Large packs(b)				
	(806.20,22)	(806.06)	(806.04)	(806.16)	(806.34)	(806.14,32)	(806.40)	(806.44)	
—tonnes—									
1980-81	8,455	10,817	(c)2,906	65,259	35,369	76,738	22,012	6,529	
1981-82	7,982	11,403	(c)1,606	72,619	34,481	83,175	24,182	5,910	
1982-83	8,189	11,023	2,258	73,330	31,672	82,849	28,000	6,104	
1982—									
October	807	941	211	6,034	2,762	7,456	2,395	514	
November	792	897	230	6,301	2,504	7,987	2,391	537	
December	417	868	192	5,828	2,659	5,967	2,167	455	
1983—									
January	435	598	86	3,513	1,668	4,286	1,884	339	
February	756	950	157	7,112	2,781	8,327	2,634	469	
March	711	909	231	6,507	2,971	6,632	2,739	384	
April	982	950	174	6,314	2,577	7,601	2,575	517	
May	620	1,015	210	7,287	2,696	6,489	2,251	579	
June	773	905	158	6,302	3,276	7,264	2,364	475	
July	846	922	149	6,785	3,327	8,806	2,472	509	
August	256	753	191	8,466	2,910	7,832	2,539	563	
September	736	968	184	5,167	3,725	6,017	2,687	516	
October	785	1,020	157	5,189	2,535	7,185	2,745	547	
November	553	928	221	5,079	2,718	9,973	2,958	616	
1982-83 : July to Nov.	3,495	4,828	1,050	30,467	13,044	36,283	11,386	2,686	
1983-84 : July to Nov.	3,176	4,591	902	30,686	14,215	39,813	13,401	2,751	

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)	vinyl chloride(f) (424.37)
			—tonnes—	'000 m ²
1980-81	17,854	83,940	22,890	9,245
1981-82	18,332	81,723	18,817	8,225
1982-83	16,763	79,876	15,846	7,181
1982—				
October	1,635	7,031	1,542	602
November	1,697	7,098	1,460	564
December	1,190	5,122	1,098	396
1983—				
January	674	4,691	719	208
February	1,029	6,670	1,205	380
March	1,446	7,375	1,551	553
April	1,227	6,503	1,301	427
May	1,250	7,138	1,249	774
June	1,560	7,002	1,637	792
July	1,169	6,372	1,625	700
August	1,367	7,156	1,955	710
September	1,232	6,931	1,985	670
October	1,259	7,148	1,955	725
November	1,252	7,718	2,264	636
1982-83 : July to Nov.	8,387	35,376	7,087	3,550
1983-84 : July to Nov.	6,280	35,324	9,784	3,441

(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.