



AUSTRALIAN BUREAU OF STATISTICS Canberra

PRODUCTION BULLETIN NO. 6: CHEMICALS AND BY-PRODUCTS AUSTRALIA, NOVEMBER 1981

PHONE INQUIRIES *for more information about these statistics—contact Mr Keith Woolford 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 this publication 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. Furthermore, 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 I 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 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

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), 1979-80 (8365.0)

Manufacturing Commodities, Principal Articles Produced, Australia, 1977-78 and 1978-79 (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

R. J. CAMERON
Australian Statistician

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CHEMICALS AND ACIDS

Acids (in terms of 100% acid)

Period	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Sulphate of ammonia (405.36)	Super- phosphate (b)
			Original	Seas. adj. (a) (401.57)		
	tonnes	tonnes	— '000 tonnes —		tonnes	'000 tonnes
1978-79	58,143	168,596	1,922	..	211,867	3,646
1979-80	62,693	179,654	2,175	..	202,846	4,202
1980-81	59,044	182,219	1,963	..	210,980	3,770
1980—						
October	5,136	19,896	138	149	17,780	296
November	4,273	5,856	176	169	15,935	358
December	5,007	9,207	168	161	22,643	358
1981—						
January	4,332	13,587	197	178	18,205	377
February	4,673	14,421	161	161	18,536	327
March	5,673	18,001	194	169	15,227	412
April	4,884	20,453	181	158	21,070	355
May	4,720	17,423	180	161	15,705	325
June	4,859	13,671	151	161	12,931	272
July	4,979	18,495	125	161	22,165	241
August	4,336	12,809	155	188	21,147	212
September	5,563	13,630	146	163	18,684	196
October	5,316	21,142	158	167	20,129	290
November	4,580	17,321	167	160	17,134	293
1980-81: July to Nov.	24,896	75,456	730	..	86,663	1,344
1981-82: July to Nov.	24,774	83,397	752	..	99,259	1,232

PLASTICISERS AND PLASTICS AND SYNTHETIC RESINS
(Tonnes)

Plastics and synthetic resins

For moulding, extrusion, laminating, calendaring, etc.

Period	Plasticisers (407.02-08)	Phenolic (403.52)	Polyesters (403.62)	Poly- ethylene (403.65)	Ureas and melamines (403.82)	Poly- propylene (403.74)	Other(c)	Total
1978-79	19,739	7,601	22,221	160,300	4,216	(d)	234,918	429,256
1979-80	21,394	10,161	19,432	178,267	4,792	(d)	298,166	510,818
1980-81	n.p.	9,153	21,402	191,821	5,564	(d)	305,738	533,678
1980—								
October	n.p.	769	2,101	16,842	510	(d)	18,094	38,316
November	n.p.	835	2,221	13,712	537	(d)	19,336	36,641
December	n.p.	703	2,089	13,835	352	(d)	22,783	39,762
1981—								
January	n.p.	464	761	19,246	193	(d)	23,477	44,141
February	n.p.	938	1,905	13,659	521	(d)	25,392	42,415
March	n.p.	1,022	2,302	16,094	485	(d)	30,288	50,191
April	n.p.	946	1,763	16,296	479	(d)	30,026	49,510
May	n.p.	903	1,696	16,474	520	(d)	27,878	47,471
June	n.p.	885	1,594	18,900	372	(d)	31,253	53,004
July	n.p.	860	2,140	17,590	456	8,290	(e)18,293	47,629
August	n.p.	991	1,798	15,319	639	7,107	(e)16,849	42,703
September	n.p.	1,206	1,874	18,094	637	10,248	(e)22,514	54,573
October	n.p.	1,127	1,916	12,275	592	9,385	(e)19,681	44,976
November	n.p.	946	2,016	10,376	459	6,646	(e)20,215	40,658
1980-81: July to Nov.	n.p.	3,292	9,292	77,317	2,642	(d)	114,641	207,184
1981-82: July to Nov.	n.p.	5,130	9,744	73,654	2,783	41,676	97,552	230,539

(a) See paragraph 6, Explanatory notes. (b) Code numbers 415.07 and 405.25. Includes double and triple superphosphates and ammonium phosphate expressed in terms of single phosphate i.e. 22% P₂O₅ equivalent. (c) Includes acrylics, cellulose, vinyl (code numbers 403.02, 18.20, 73.74, 90.92, 96). (d) Included with code numbers 403.02, 18.20, 73.90, 92, 96. (e) Excludes code number 403.74.

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

For protective coatings, paints, etc.

Period	Acrylics (a) (404.01)	Alkyds (a) (404.02)	Phenolics (a) (404.32)	Polyvinyl acetate (a) (404.88)	Rosin esters (a) (404.48)	Styrenes (a) (404.62)	Ureas and melamines (a) (404.74)	Polyesters (a) (404.40)	Other (a) (404.94)	Total
1978-79	11,223	30,674	2,032	4,040	2,302	731	1,694	657	5,083	58,436
1979-80	11,273	36,733	2,464	7,093	3,023	697	1,729	827	5,738	69,577
1980-81	10,792	37,859	2,190	7,661	3,019	787	1,765	1,010	5,302	70,385
1980—										
October	957	3,524	196	745	233	n.p.	179	n.p.	576	6,560
November	915	3,666	238	603	311	n.p.	144	n.p.	559	6,594
December	909	2,936	160	703	265	n.p.	184	n.p.	688	5,948
1981—										
January	587	2,051	81	203	141	n.p.	78	n.p.	318	3,551
February	1,032	3,286	182	857	279	n.p.	178	n.p.	317	6,293
March	1,124	3,950	211	890	321	n.p.	173	n.p.	361	7,211
April	1,050	3,185	204	788	217	n.p.	142	n.p.	516	6,276
May	1,049	3,246	146	699	246	n.p.	161	n.p.	405	6,161
June	781	3,168	193	545	221	67	128	69	334	5,506
July	1,071	3,562	219	522	258	77	212	112	458	6,477
August	980	3,502	240	522	258	84	134	80	472	6,272
September	1,031	3,499	167	759	293	76	151	66	535	6,577
October	1,017	3,507	212	757	248	n.p.	132	n.p.	490	6,496
November	1,070	3,438	194	481	280	n.p.	127	n.p.	512	6,265
1980-81: July to Nov.	4,260	16,037	1,013	2,976	1,329	n.p.	721	n.p.	2,363	29,439
1981-82: July to Nov.	5,169	17,508	1,032	3,102	1,262	n.p.	756	n.p.	2,467	32,087

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

For bonding and adhesives(a)

For other purposes(b)

Period	Phenolics (404.34)	Polyvinyl acetate (404.94)	Ureas and melamines (404.76)	Other (404.96)	Total	Vinyls (404.84)	Other (c)	Total	Total for all purposes
1978-79	5,583	6,063	32,647	1,748	46,041	3,469	76,992	80,461	614,194
1979-80	6,181	7,200	34,565	2,022	49,968	4,832	91,813	96,645	727,008
1980-81	6,229	5,180	36,176	2,224	49,809	n.p.	n.p.	92,775	746,647
1980—									
October	520	471	2,737	222	3,950	n.p.	n.p.	7,870	56,696
November	520	306	2,914	221	3,961	n.p.	n.p.	6,578	53,774
December	318	431	2,664	129	3,542	n.p.	n.p.	2,926	52,178
1981—									
January	308	228	825	122	1,483	n.p.	n.p.	6,039	55,214
February	498	325	2,772	171	3,766	n.p.	n.p.	7,185	59,659
March	528	666	3,767	214	5,175	n.p.	n.p.	9,789	72,366
April	700	477	2,934	226	4,337	n.p.	n.p.	8,808	68,931
May	743	478	3,083	181	4,485	n.p.	n.p.	9,735	67,852
June	648	548	3,706	184	5,086	n.p.	n.p.	7,899	71,495
July	598	506	2,482	195	3,781	n.p.	n.p.	10,471	68,358
August	669	853	3,380	252	5,154	n.p.	n.p.	8,895	63,024
September	668	631	3,862	224	5,385	n.p.	n.p.	4,627	71,162
October	585	642	3,080	199	4,506	n.p.	n.p.	8,796	64,774
November	497	777	3,352	220	4,846	n.p.	n.p.	10,776	62,545
1980-81: July to Nov.	2,486	2,027	16,425	997	21,935	n.p.	n.p.	40,394	298,952
1981-82: July to Nov.	3,017	3,409	16,156	1,090	23,672	n.p.	n.p.	43,565	329,863

(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) Includes phenolics and styrenes (code numbers 404.34, 64, 78, 98).

PAINTS AND OTHER SURFACE COATINGS
(* 000 litres)

Period	Architectural and decorative paints, enamels and clear(a)					Industrial paints, enamels and clear (incl. lacquers and water thinned industrial products)(c)		
	Solvent thinned		Water thinned		Tinting colours, all types packed for sale or transfer out	Finishing coats		
	Primers and undercoats	Finishing coats(b)	Plastic latex	Other water based		Primers and undercoats	Nitro- cellulose lacquers	Other
	(410.01)	(410.03, 05.07)	(410.11, 13.15)	(410.17)		(410.31,41)	(410.33, 43.45)	(410.37, 47.49)
1978-79	10,722	26,322	36,499	1,673	565	10,601	4,987	35,039
1979-80	10,930	27,603	42,015	1,997	553	11,005	5,422	35,074
1980-81	9,822	24,939	42,979	2,532	475	11,137	5,500	33,757
1980—								
October	996	2,466	4,409	256	46.8	1,047	523	3,293
November	918	2,418	3,906	277	36.1	1,032	531	2,992
December	820	2,209	3,735	237	32.8	879	460	2,893
1981—81								
January	670	1,759	2,892	191	27.3	541	225	1,670
February	743	2,118	3,788	200	51.7	926	470	2,926
March	880	2,243	3,668	246	34.4	1,152	552	3,317
April	809	2,073	3,594	192	34.9	1,001	462	2,938
May	898	2,144	3,792	180	38.3	1,156	464	3,212
June	628	1,460	2,825	171	31.8	821	396	2,038
July	916	2,284	4,246	220	34.3	1,094	524	3,327
August	731	2,050	3,958	187	50.0	1,062	467	3,329
September	904	2,243	4,631	240	59.2	1,179	501	3,378
October	764	1,791	3,831	357	44.5	985	545	2,956
November	663	1,607	3,269	242	40.9	822	485	2,365
1980-81: July to Nov.	4,374	10,933	18,685	1,115	224	4,661	2,470	14,763
1981-82: July to Nov.	3,977	9,975	19,936	1,246	229	5,143	2,522	15,354

PAINTS, ETC.—continued AND THINNERS
(* 000 litres)

Period	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d) (410.57)	Bituminous paints not elsewhere included(f) (410.65)		Water shedding preparations (410.69)	Other paints and coatings(g) (410.55,67,79)	Thinners	
		Marine coatings(e) (410.59)				For nitro- cellulose coatings (410.85)	For all other coatings (410.87)
1978-79	4,048	1,826	1,779	737	9,810	10,236	13,618
1979-80	4,117	2,490	1,561	833	11,905	9,772	13,819
1980-81	4,137	2,329	1,597	831	12,441	9,313	13,585
1980—							
October	483	245	127	94.9	1,139	1,034	1,344
November	364	193	125	41.0	1,197	818	1,093
December	334	184	131	71.5	974	689	997
1981—							
January	251	148	116	26.2	754	475	784
February	375	212	152	64.8	1,065	818	1,153
March	401	220	163	123.0	1,215	922	1,438
April	322	158	134	45.1	1,131	772	1,104
May	325	158	136	86.0	1,105	851	1,403
June	252	86	108	54.7	813	551	970
July	322	134	108	119.6	1,236	798	1,218
August	358	201	204	81.1	1,178	746	1,248
September	376	225	136	80.0	1,410	861	1,443
October	479	117	151	56.9	1,085	741	1,027
November	299	64	166	68.8	844	854	1,002
1980-81: July to Nov.	1,877	1,163	656	360	5,383	4,234	5,737
1981-82: July to Nov.	1,834	741	766	406	5,752	3,998	5,938

(a) Excludes heavy duty coatings. (b) Includes varnishes and clear plastic coatings such as floor treatment compounds and two-pack type coatings. (c) Includes automotive. (d) Includes part-pigmented, Madiol and Crosos types for all uses including industrial. (e) Excludes super structure paints which are included with architectural and decorative paints. (f) Excludes car body sound deadeners, heavy duty coatings and marine bituminous coatings. (g) Includes heavy duty coatings and decorative seamless flooring compounds and other paints and coatings not elsewhere included. Excludes leather dressings.

PAINTS AND OTHER SURFACE COATINGS : STATES—NOVEMBER 1981
(Litres)

Code No.	Item	N.S.W.	Vic.	Qld	S.A.	W.A. and Tas.	Australia
	Architectural and decorative paints, enamels and clear(a)—						
	Solvent thinned—						
410.01	Primers and undercoats	222,898	197,428	164,458	50,011	27,738	662,533
	Finishing coats, pigmented—						
410.03	Full gloss	303,763	362,497	141,232	109,059	47,419	963,970
410.05	Other than full gloss	146,936	110,198	46,721	30,138	39,303	373,296
410.07	Finishing coats, clear	149,307	92,752	8,008	7,118	12,594	269,779
	Water thinned—						
	Plastic latex—						
410.11	Primers and undercoats	55,279	62,133	67,330	9,438	11,653	205,833
	Finishing coats—						
410.13	Flat	639,002	500,329	256,520	200,412	234,798	1,831,061
410.15	Other than flat (satin, semi-gloss, gloss)	285,508	422,163	311,454	98,860	113,666	1,231,651
410.17	Other water based	110,673	79,195	n.p.	n.p.	n.p.	241,748
410.25	Tinting colours, all types, packed for sale or transfer out	n.p.	13,581	n.p.	n.p.	—	40,915
	Industrial paints, enamels and clear (includes lacquers and water thinned industrial products)—						
	Automotive—						
410.31	Primers and undercoats	41,545	146,229	n.p.	n.p.	n.p.	268,977
	Finishing coats—						
410.33	Nitro-cellulose lacquers	10,912	n.p.	—	n.p.	—	21,421
410.37	Other	116,727	294,318	n.p.	n.p.	n.p.	566,355
410.41	Other industrial—						
	Primers and undercoats	216,557	181,944	78,607	44,783	30,896	552,787
	Finishing coats—						
	Nitro-cellulose lacquers—						
410.43	Clears	184,947	77,004	n.p.	n.p.	n.p.	348,621
410.45	Colours	62,092	33,970	n.p.	n.p.	n.p.	114,493
	Other—						
410.47	Clears	201,585	195,701	18,196	n.p.	n.p.	428,764
410.49	Colours	626,780	403,799	66,581	163,376	109,270	1,369,806
410.55	Heavy duty coatings	200,046	111,422	n.p.	43,526	n.p.	479,584
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b)	132,907	107,417	40,175	n.p.	n.p.	298,989
410.59	Marine coatings(c)	24,404	15,480	n.p.	n.p.	6,450	64,033
410.65	Bituminous paints, not elsewhere included(d)	162,957	2,294	n.p.	n.p.	—	166,296
410.67	Decorative seamless flooring compounds	n.p.	—	—	n.p.	n.p.	n.p.
410.69	Water shedding preparations	28,693	11,695	14,076	n.p.	n.p.	68,798
410.79	Other paints and coatings not elsewhere included (excludes leather dressings)	74,794	150,123	n.p.	61,307	n.p.	360,467
	Thinners—						
410.85	For nitro-cellulose coatings	26,853	367,832	80,884	53,637	83,625	853,830
410.87	For all other coatings	361,490	294,609	126,842	146,397	73,006	1,002,344

PAPER
(Tonnes)

Period	Newsprint (351.11)	Printings (351.18)	Writings and duplicating(e) (351.25.29)	Wrapping (351.41-49)	Tissue and sanitary (351.51)	Other(f) (351.21,79)	Total
1978-79	208,143	84,892	104,852	338,377	99,630	27,554	863,448
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
1980—							
October	18,022	6,657	10,952	30,091	8,607	1,492	75,821
November	17,549	7,540	10,703	31,807	10,175	2,392	80,166
December	14,093	8,752	9,840	33,610	6,539	2,325	75,159
1981—							
January	16,507	7,188	9,097	31,846	6,289	1,824	72,751
February	16,832	10,503	9,623	31,133	8,961	2,306	79,358
March	19,640	8,298	8,680	34,782	10,004	3,002	84,406
April	18,592	8,026	7,875	40,196	8,027	1,226	83,942
May	19,059	7,665	9,805	35,757	5,475	3,005	80,766
June	16,846	9,115	8,964	39,686	12,616	2,817	90,044
July	16,500	6,499	8,010	32,371	8,756	2,678	74,814
August	20,814	8,007	8,300	32,805	10,142	2,786	82,554
September	21,672	6,517	6,676	18,905	7,925	1,461	63,156
October	27,614	5,243	7,919	20,679	6,926	2,354	70,735
November	27,187	10,104	7,799	30,002	9,775	3,554	88,421
1980-81: July to Nov.	92,878	39,295	53,505	165,452	48,437	10,704	410,271
1981-82: July to Nov.	113,787	36,370	38,704	134,762	43,524	12,833	379,980

(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) Excludes car body sound deadeners, heavy duty coatings and marine bituminous coatings. (e) Prior to July 1978, figures relate to code number 351.29 only. (f) Prior to July 1978, includes code number 351.25.

PULP, PAPER BOARDS AND PAPER FELTS
(Tonnes)

Period	Wood pulp(a)			Paper boards(b)			Paper felts (353.01)
	Chemical (341.31-37)	Mechanical (341.39)	Other (341.45)	Box and carton (352.21,23)	Other uncoated		
					Box and container (352.13)	Other (352.33)	
1978-79	164,140	192,433	256,679	121,677	278,340	48,683	194
1979-80	168,727	215,292	313,839	119,238	297,927	61,734	n.p.
1980-81	168,555	219,534	319,609	114,839	306,784	51,290	—
1980—							
October	14,310	19,028	25,680	6,966	27,504	3,427	—
November	13,812	19,022	27,028	12,543	29,015	4,011	—
December	14,457	14,654	24,277	9,997	25,655	3,532	—
1981—							
January	12,643	14,551	24,969	4,939	17,579	3,568	—
February	14,463	18,284	28,218	9,157	21,432	4,226	—
March	14,959	20,214	27,597	8,920	27,833	5,148	—
April	13,764	18,748	27,395	9,570	24,957	3,349	—
May	13,615	18,796	23,755	8,388	22,440	3,956	—
June	15,680	18,088	28,487	12,074	25,488	5,226	—
July	13,787	17,062	24,620	9,101	25,488	5,893	—
August	11,165	19,153	24,296	8,827	26,238	4,688	—
September	8,767	17,124	11,569	8,091	21,663	4,222	—
October	9,767	19,961	15,952	8,765	4,098	2,430	—
November	14,822	19,882	25,770	10,782	28,589	6,005	—
1980-81: July to Nov.	68,974	96,199	134,911	51,794	141,040	22,285	—
1981-82: July to Nov.	58,308	93,182	102,207	46,566	106,076	23,238	—

ADHESIVE TAPES
('000 square metres)

Period	Produced in establishment					Converted from rolls purchased or transferred in				
	Pressure sensitive (non-reinforced)					Pressure sensitive (non-reinforced)				
	Gummed (liquid activated) (769.21,31)	Original manufacture				Gummed (liquid activated) (769.08,09)	Cellulose and plastic (769.17,18)			Pressure sensitive reinforced (d) (769.16,19)
		Paper (769.51)	Cellulose (769.53)	Plastic (769.54)	Other(c) (769.52,59)		Paper (769.15)	Cellulose and plastic (769.17,18)	Cloth and other (769.16,19)	
1978-79	7,093	9,808	5,783	9,649	444	2,485	3,322	514	395	554
1979-80	n.p.	8,206	5,029	10,627	397	n.p.	4,178	1,446	n.p.	549
1980-81	n.p.	6,945	4,876	9,087	310	n.p.	4,301	1,186	n.p.	657
1980—										
October	n.p.	859	572	1,160	33	n.p.	489	n.p.	n.p.	n.p.
November	n.p.	552	392	948	26	n.p.	286	n.p.	n.p.	n.p.
December	n.p.	413	508	636	43	n.p.	309	n.p.	n.p.	n.p.
1981—										
January	n.p.	203	234	358	6	n.p.	215	334	n.p.	n.p.
February	n.p.	605	310	985	26	n.p.	279	34	n.p.	n.p.
March	n.p.	n.p.	724	612	28	n.p.	364	29	n.p.	52
April	n.p.	n.p.	479	638	n.p.	n.p.	291	24	n.p.	41
May	n.p.	444	352	710	n.p.	n.p.	447	23	n.p.	90
June	n.p.	410	358	676	53	n.p.	438	21	n.p.	26
July	n.p.	476	640	637	27	n.p.	252	38	n.p.	71
August	n.p.	592	300	898	10	n.p.	214	28	n.p.	67
September	n.p.	592	353	703	22	n.p.	415	n.p.	n.p.	70
October	n.p.	620	447	561	27	n.p.	400	n.p.	n.p.	73
November	n.p.	663	397	371	24	n.p.	269	n.p.	n.p.	21
1980-81: July to Nov.	n.p.	3,798	1,911	4,472	137	n.p.	1,959	n.p.	n.p.	n.p.
1981-82: July to Nov.	n.p.	2,942	2,136	3,170	110	n.p.	1,551	n.p.	n.p.	302

(a) Quantities shown represent tonnes air-dried. (b) Paper exceeding 205 grammes per square metre is classified as paper board. (c) Includes cloth. (d) Refers to production in the establishment and conversion from rolls purchased or transferred in.

**SOAP
(Tonnes)**

Period	For personal toilet use					For other purposes—non-abrasive		
	Toilet		Shampoo (805.08)	Shaving(a) (805.10, 11.13)	Total	Solid (bar), flakes and chips(b) (805.22.24, 46.48.58)	Powder and granule	
	Solid and powder (805.01, 03)	Liquid and paste (805.05)					Small packs(c) (805.26)	Large packs(d) (805.50)
1978-79	28,221	741	2,105	893	31,960	10,668	5,547	1,483
1979-80	28,208	854	1,625	1,056	31,743	10,352	5,624	990
1980-81	28,318	1,431	1,519	968	32,236	10,060	4,113	1,461
1980—								
October	1,885	88	136	97	2,206	1,091	447	123
November	2,563	190	120	30	2,903	973	196	145
December	2,411	103	178	79	2,771	833	500	143
1981—								
January	993	73	116	29	1,211	660	165	127
February	2,167	177	133	94	2,571	763	261	121
March	2,470	202	139	72	2,883	903	409	119
April	2,366	105	129	84	2,684	734	349	114
May	2,742	117	106	79	3,044	663	394	142
June	2,597	111	130	136	2,974	841	215	70
July	2,819	154	138	87	3,198	983	427	130
August	2,630	137	168	77	3,012	538	282	151
September	3,054	151	119	106	3,430	1,014	332	156
October	3,173	142	130	52	3,497	1,066	354	135
November	2,949	149	143	52	3,293	888	370	177
1980-81: July to Nov.	12,572	543	588	395	14,098	4,663	1,819	625
1981-82: July to Nov.	14,625	733	698	374	16,430	4,489	1,765	749

**SOAP—continued AND ABRASIVE CLEANSERS AND SCOURERS
(Tonnes)**

Period	For other purposes—non-abrasive—continued						Abrasive cleansers and scourers		
	Liquid					Total	Small packs(c)		
	Disinfectant type(e)		Non-disinfectant type				Granules and powder (805.38)	Paste (805.40)	Large packs(d) (805.60)
	Small packs(c) (805.30)	Large packs(d) (805.52)	Small packs(c) (805.32)	Large packs(d) (805.54)	Soft (incl. paste) (805.34.56)				
1978-79	567	2,145	571	2,783	947	24,711	415	365	467
1979-80	641	1,931	582	2,839	776	23,935	459	404	489
1980-81	951	1,608	638	1,949	757	21,537	323	392	418
1980—									
October	65	127	60	187	80	2,180	19	26	44
November	78	115	56	187	54	1,804	25	32	46
December	77	142	54	169	33	1,951	22	14	38
1981—									
January	58	110	61	147	59	1,387	30	27	28
February	71	121	51	136	52	1,576	n.p.	35	33
March	91	146	59	155	82	1,964	n.p.	45	39
April	128	121	52		58	1,700	n.p.	30	30
May	64	134	54		70	1,669	n.p.	37	31
June	94	144	41	121	74	1,607	n.p.	40	31
July	85	158	50	140	49	2,022	n.p.	55	32
August	60	170	37	162	55	1,455	n.p.	44	25
September	77	173	39	165	68	2,024	n.p.	24	27
October	86	139	43	161	48	2,032	n.p.	29	37
November	93	155	57	163	65	1,968	n.p.	38	24
1980-81: July to Nov.	368	690	266	923	329	9,683	135	164	188
1981-82: July to Nov.	401	795	226	791	285	9,501	n.p.	190	145

(a) Includes solid shaving soap. (b) Includes woolscouring soap in large packs. (c) Contains 1 kg or less of solid or 5 litres or less of liquid. Excludes 'dairy cleansers'.
 (d) Contains over 3 kg of solid or over 5 litres of liquid. Includes all 'dairy cleansers' regardless of size. (e) Excludes products marketed primarily as disinfectants.

SYNTHETIC DETERGENTS (Tonnes)

Period	Non-abrasive								Total
	Abrasives cleaners and scourers		For other purposes						
	Small packs (806.18, 20.22)	Large packs (806.36)	For personal toilet use		Liquid, paste and cream		Other (806.10, 14.30.32)		
			Shampoo (806.06)	Other (806.02,04)	Small packets (806.16)	Large packets (806.34)			
1978-79	8,634	1,040	9,538	1,468	54,444	29,184	80,819	185,217	
1979-80	9,383	1,185	10,009	1,583	61,213	33,014	86,450	202,837	
1980-81	7,784	1,242	10,340	1,524	65,538	35,369	77,047	198,844	
1980—									
October	681	96	730	160	4,836	2,417	7,011	15,931	
November	498	70	932	116	5,536	2,697	5,395	15,244	
December	849	103	776	111	5,296	3,214	8,172	18,521	
1981—									
January	291	84	596	47	3,477	1,634	4,907	11,038	
February	597	62	847	116	5,281	2,720	6,072	15,695	
March	396	82	1,033	182	5,715	3,413	5,278	16,104	
April	698	125	893	126	5,884	2,828	6,071	16,625	
May	707	166	842	168	5,596	3,290	6,194	16,963	
June	776	180	746	115	6,625	4,213	6,690	19,344	
July	803	122	1,041	175	5,754	3,329	7,502	18,726	
August	710	116	916	93	6,602	2,775	7,061	18,273	
September	605	88	890	95	7,044	3,085	7,485	19,292	
October	643	44	989	123	8,062	2,870	9,149	21,880	
November	624	72	887	105	6,493	3,195	7,163	18,539	
1980-81: July to Nov.	3,470	440	4,605	659	27,665	14,052	33,663	84,554	
1981-82: July to Nov.	3,385	442	4,723	591	33,955	15,254	38,360	96,710	

OTHER DETERGENTS AND PLASTIC COATED MATERIALS(c)

Period	Plastic coated materials									
	Other detergents				Vinyl chloride (incl. co-polymers on knitted or woven textile material)					
			Total detergents		Expanded (424.30)		Other (424.32)		Polyethylene	
	Alkaline (806.40)	Emulsion cleansers (806.44)	Other (incl. acid cleansers) (806.25, 42.45)						On regenerated cellulose film (424.42)	Other polymers on knitted and woven textile materials (424.61)
	— tonnes —				— '000 square metres —					
1978-79	21,741	5,878	7,389	220,136	4,984	7,944	1,206	7,607	77,812	4,643
1979-80	21,468	6,999	7,931	238,635	4,250	6,248	n.p.	4,727	123,268	5,225
1980-81	23,338	6,616	7,037	235,835	4,642	5,951	n.p.	n.p.	152,905	5,400
1980—										
October	2,275	568	603	19,377	458	544	n.p.	n.p.	14,990	644
November	1,739	525	542	18,050	294	380	n.p.	n.p.	12,962	500
December	2,022	547	590	21,680	394	470	n.p.	n.p.	14,107	418
1981—										
January	1,793	399	575	13,805	123	167	n.p.	n.p.	10,993	225
February	1,966	497	660	18,838	367	565	n.p.	n.p.	13,749	504
March	2,140	611	691	19,546	575	631	n.p.	n.p.	15,190	593
April	1,830	646	559	19,660	364	454	n.p.	n.p.	12,900	529
May	1,911	552	538	19,964	432	696	n.p.	n.p.	14,953	390
June	1,935	606	590	22,475	537	545	n.p.	n.p.	16,316	335
July	2,017	502	594	21,839	428	338	n.p.	n.p.	277	13,417
August	2,021	490	648	21,432	462	394	n.p.	n.p.	396	14,872
September	1,933	522	692	22,439	535	471	n.p.	n.p.	11,257	275
October	1,958	533	658	25,029	450	371	n.p.	n.p.	16,660	712
November	1,880	579	707	21,705	399	399	n.p.	n.p.	19,478	297
1980-81: July to Nov.	9,721	2,758	2,834	99,867	1,849	2,425	n.p.	n.p.	54,696	2,406
1981-82: July to Nov.	9,809	2,626	3,299	112,444	2,265	1,974	n.p.	n.p.	75,884	1,276

(a) Contains 3 kg or less of solid or 5 litres or less of liquid. Excludes 'dairy cleansers'. (b) Contains over 3 kg of solid or 5 litres of liquid. (c) 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.

UNSUPPORTED PLASTICS FILM, FOIL AND SHEETING(a)—BY POLYMER TYPE
(* 000 kilograms)

Period	Vinyl chloride including co-polymers (423.02,03,06,07)	Polyethylene		Poly- styrene (423.31,35)	Other (d) (423.41,45,61,65)	Total
		Low density(b) (423.11,15)	High density(c) (423.21,25)			
1978-79	16,159	74,063	2,743	8,575	16,080	117,626
1979-80	17,465	85,732	3,515	7,642	17,414	131,767
1980-81	17,854	81,269	2,864	7,068	16,976	126,030
1980—						
October	1,761	6,390	293	669	1,814	10,927
November	1,550	6,876	279	730	1,582	11,017
December	1,481	5,958	243	479	1,541	9,701
1981—						
January	819	4,422	187	421	660	6,510
February	1,448	7,207	274	742	1,235	10,906
March	1,624	7,503	218	664	1,335	11,344
April	1,227	6,616	225	533	1,088	9,689
May	1,592	7,672	197	437	1,350	11,247
June	1,684	7,753	167	557	1,600	11,761
July	1,812	6,668	185	650	1,506	10,820
August	1,916	6,589	185	499	1,513	10,703
September	2,239	7,767	246	531	1,374	12,157
October	1,868	7,388	280	420	1,340	11,295
November	1,793	7,598	247	503	1,666	11,807
1980-81: July to Nov.	7,980	34,138	1,352	3,236	8,166	54,872
1981-82: July to Nov.	9,628	36,010	1,143	2,602	7,399	56,782

UNSUPPORTED PLASTICS FILM, FOIL AND SHEETING(a)—BY THICKNESS
(* 000 kilograms)

Period	Film (thickness less than 0.25 mm)			Sheeting and sheets (thickness 0.25 mm and over)			Total film and sheeting and sheets
	Vinyl chloride including co-polymers (423.02,03)	Other (423.11,21, 31,41,61)	Total film	Vinyl chloride including co-polymers (423.06,07)	Other (423.15,25, 35,45,65)	Total sheeting and sheets	
1978-79	9,699	83,420	93,119	6,461	18,041	24,501	117,626
1979-80	10,755	98,896	109,652	6,709	15,406	22,115	131,767
1980-81	10,508	93,456	103,963	7,346	14,720	22,067	126,030
1980—							
October	931	7,682	8,613	830	1,484	2,314	10,927
November	862	8,023	8,885	688	1,444	2,132	11,017
December	813	6,888	7,701	667	1,333	2,000	9,701
1981—							
January	536	4,913	5,448	284	778	1,062	6,510
February	880	8,158	9,038	568	1,300	1,868	10,906
March	995	8,522	9,516	629	1,198	1,827	11,344
April	829	7,485	8,313	398	977	1,375	9,689
May	908	8,528	9,536	684	1,028	1,711	11,247
June	1,043	8,775	9,818	641	1,302	1,943	11,761
July	1,010	7,776	8,786	802	1,230	2,032	10,820
August	1,177	7,642	8,819	738	1,145	1,884	10,703
September	1,329	8,331	9,660	910	1,586	2,497	12,157
October	1,040	8,141	9,181	828	1,286	2,114	11,295
November	926	8,558	9,484	867	1,456	2,323	11,807
1980-81: July to Nov.	4,505	40,087	44,592	3,475	6,805	10,280	54,872
1981-82: July to Nov.	5,482	40,450	45,932	4,146	6,704	10,850	56,782

(a) Rigid and flexible (includes lay flat tubing)—not profile. Includes film or sheet used in further production in the same establishment. (b) S.G. less than 0.941.
(c) 0.941 S.G. and above. (d) Includes cellulose acetate.