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PRODUCTION BULLETIN NO. 6 : CHEMICALS AND BY-PRODUCTS AUSTRALIA, AUGUST 1980

INQUIRIES

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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 1977-78* (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* (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) 1978-79 (8365.0)

Manufacturing Commodities, Principal Articles Produced, Australia, 1976-77 and 1977-78 (8303.0)

8. Current publications produced by the ABS are listed in *Catalogue of Publications* (1101.0) which is available free of charge 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

Period	Acids (in terms of 100% acid)				
	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Sulphate of ammonia (405.36)
			Original	Seas. adj. (a)	
	tonnes	tonnes	— '000 tonnes —		tonnes
1977-78	53,386	159,513	1,799	...	217,404
1978-79	58,143	168,596	1,922	...	211,867
1979-80	62,693	179,654	2,175	...	202,846
1979—					
July	4,302	11,829	155	197	18,831
August	4,861	21,333	152	190	19,505
September	5,899	19,337	131	138	18,136
October	5,397	18,398	179	186	16,788
November	5,342	15,509	195	184	19,444
December	6,962	10,495	186	171	22,961
1980—					
January	4,617	11,707	188	178	17,987
February	7,025	14,195	190	179	10,846
March	5,426	17,639	206	184	17,660
April	4,444	16,943	214	188	15,058
May	3,221	16,322	202	182	12,683
June	5,197	5,947	177	197	12,947
July	5,029	19,996	138	179	18,235
August	4,921	17,025	143	177	15,419
1979-80: July to Aug.	9,163	33,162	308	...	38,336
1980-81: July to Aug.	9,950	37,021	281	...	33,654

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)	Polyethylene (403.65)	Ureas and melamines (403.82)	Other (c) (d)	Total
1977-78	20,258	7,626	18,627	168,021	3,317	196,201	393,792
1978-79	19,739	7,601	22,079	160,300	4,216	234,640	428,836
1979-80	21,394	10,161	19,432	178,267	4,792	279,142	491,794
1979—							
July	n.p.	786	1,926	15,630	357	22,841	41,540
August	n.p.	792	1,707	16,296	361	24,140	43,296
September	n.p.	712	1,736	n.p.	n.p.	23,715	37,331
October	n.p.	934	1,395	n.p.	n.p.	23,314	34,364
November	n.p.	896	2,049	14,375	382	24,767	42,469
December	n.p.	636	1,736	15,269	259	22,210	40,110
1980—							
January	n.p.	485	834	13,957	118	23,763	39,157
February	n.p.	1,101	1,957	17,356	420	23,565	44,399
March	n.p.	924	1,543	17,251	506	24,289	44,513
April	n.p.	1,113	1,453	16,097	482	23,408	42,553
May	n.p.	951	1,873	16,822	555	23,154	43,355
June	n.p.	831	1,223	16,164	513	19,976	38,707
July	n.p.	652	1,737	13,429	633	20,609	37,060
August	n.p.	536	1,605	16,330	434	20,447	39,352
1979-80: July to Aug.	n.p.	1,578	3,633	31,926	718	46,981	84,836
1980-81: July to Aug.	n.p.	1,188	3,342	29,759	1,067	41,056	76,412

(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, celluloses, vinyls. (d) Code numbers 403.02, 18.20, 73.90, 92.96.

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

For protective coatings, paints etc.

Period	Acrylics (a) (404.01)	Alkyds (a) (404.02)	Phenolics (a) (404.12)	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
1977-78	8,090	26,836	1,608	5,706	2,277	827	1,349	579	4,779	52,051
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
1979—										
July	1,083	3,193	222	483	265	64	187	103	486	6,086
August	1,019	3,216	234	510	182	65	164	59	541	5,990
September	947	3,301	252	599	253	66	159	96	513	6,186
October	937	3,827	231	539	286	n.p.	142	n.p.	580	6,688
November	1,192	3,625	246	896	224	n.p.	145	n.p.	573	7,016
December	827	2,645	182	615	258	n.p.	151	n.p.	331	5,163
1980—										
January	656	1,958	82	299	102	n.p.	80	n.p.	359	3,607
February	1,182	3,188	240	785	200	n.p.	159	n.p.	508	6,329
March	947	3,433	224	826	253	45	180	74	489	6,466
April	860	2,817	201	668	256	58	112	36	456	5,464
May	1,001	2,889	163	386	506	180	137	73	465	5,800
June	815	2,641	187	487	238	27	113	25	437	4,970
July	985	3,137	221	358	340	53	116	88	426	5,724
August	688	2,709	175	381	197	57	155	46	467	4,875
1979-80: July to Aug.	2,102	6,409	456	993	447	129	351	162	1,027	12,076
1980-81: July to Aug.	1,673	5,846	396	739	537	110	271	134	893	10,599

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

Period	<i>For bonding and adhesives (a)</i>					<i>For other purposes (b)</i>			Total for all purposes
	Phenolics (404.34)	Polyvinyl acetate (404.90)	Ureas and melamines (404.76)	Other (404.96)	Total	Vinyls (404.54)	Other (c) (d)	Total	
1977-78	5,890	4,695	28,713	1,825	41,123	2,982	32,044	35,026	521,992
1978-79	6,263	6,063	36,264	1,748	50,338	3,469	76,992	80,461	618,071
1979-80	6,851	7,200	34,894	2,022	50,967	4,832	91,813	96,645	708,983
1979—									
July	685	831	2,905	158	4,579	n.p.	n.p.	8,474	60,670
August	621	836	2,929	171	4,557	n.p.	n.p.	8,985	62,828
September	675	695	3,218	141	4,729	n.p.	n.p.	8,871	57,117
October	853	662	2,531	242	4,288	n.p.	n.p.	11,342	56,682
November	603	755	3,180	263	4,801	n.p.	n.p.	9,779	64,065
December	386	409	2,393	141	3,329	n.p.	n.p.	3,340	51,942
1980—									
January	406	261	1,630	64	2,361	n.p.	n.p.	9,806	54,931
February	603	433	2,687	222	3,945	n.p.	n.p.	8,358	63,031
March	598	498	3,722	191	5,009	n.p.	n.p.	5,796	61,784
April	476	782	2,927	133	4,318	n.p.	n.p.	4,584	56,919
May	565	636	3,043	158	4,402	n.p.	n.p.	9,725	63,282
June	380	402	3,729	138	4,649	n.p.	n.p.	7,585	55,911
July	496	353	3,438	228	4,515	n.p.	n.p.	10,170	57,469
August	527	538	4,751	168	5,984	n.p.	n.p.	10,262	60,473
1979-80: July to Aug.	1,306	1,667	5,834	329	9,136	n.p.	n.p.	17,459	123,507
1980-81: July to Aug.	1,623	891	8,189	396	10,499	n.p.	n.p.	20,432	117,942

(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. (d) Code numbers 404.36, 404.78, 98.

PAINTS AND OTHER SURFACE COATINGS
(* 000 litres)

Period	Architectural and decorative paints, enamels and clears (a)					Industrial paints, enamels and clears (incl. lacquers and water thinned industrial products) (b)		
	Solvent thinned		Water thinned		Tinting colours, all types packed for sale or transfer out	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)
1977-78	11,832	27,945	36,096	382	492	10,033	4,299	33,585
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	5,346	35,074
1979—								
July	859	2,294	3,141	138	49.9	1,018	458	3,302
August	989	2,668	3,837	178	55.6	1,248	634	3,624
September	948	2,465	3,717	177	44.4	881	401	2,813
October	1,133	3,009	4,481	268	65.8	1,442	503	3,721
November	1,049	2,757	3,984	231	59.4	1,088	542	3,597
December	844	1,822	2,973	165	39.6	728	378	2,607
1980—								
January	681	1,719	2,511	113	19.5	502	227	1,966
February	852	2,097	3,629	111	35.1	797	498	2,723
March	922	2,276	3,762	205	44.6	950	530	2,903
April	998	2,365	3,752	149	50.8	894	399	2,732
May	900	2,292	3,457	149	46.0	946	397	2,927
June	753	1,838	2,771	112	42.3	811	378	2,160
July	900	2,108	3,626	194	48.0	924	498	3,048
August	700	1,947	3,108	212	43.2	754	390	2,540
1979-80: July to Aug.	1,848	4,962	6,978	317	106.0	2,266	1,092	6,926
1980-81: July to Aug.	1,600	4,055	6,734	406	91.2	1,678	888	5,588

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

Period	Wood stains (oil, spirit etc.) packed for sale or transfer out (d) (410.57)	Marine coatings (e) (410.59)	Bituminous paints not elsewhere included (f) (410.65)	Water shedding preparations (410.69)	Other paints and coatings (g) (410.55, 67, 79)	Thinners	
						For nitro-cellulose coatings (410.85)	For all other coatings (410.87)
1977-78	5,027	1,320	1,677	844	9,775	10,036	12,961
1978-79	4,048	1,826	1,779	737	9,810	10,236	13,338
1979-80	4,117	2,490	1,559	833	11,905	9,772	13,819
1979—							
July	321	211	118	47.8	1,201	816	1,308
August	396	136	143	50.2	1,166	891	1,544
September	325	208	98	68.5	986	873	1,146
October	432	183	174	53.0	1,056	952	1,374
November	420	182	134	50.7	1,120	1,006	1,183
December	326	132	90	44.4	875	625	976
1980—							
January	250	189	115	56.7	769	553	820
February	385	228	143	80.3	1,123	865	1,043
March	350	183	104	104.8	912	837	1,245
April	373	235	152	83.1	896	805	1,169
May	300	329	172	85.6	921	772	1,093
June	238	273	116	107.7	879	776	916
July	332	339	175	96.0	1,118	836	1,172
August	354	218	128	64.5	964	746	1,029
1979-80: July to Aug.	717	347	262	98.0	2,367	1,708	2,853
1980-81: July to Aug.	686	557	303	160.4	2,082	1,583	2,201

(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, Madsen and Cresote 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—AUGUST 1980
(Litres)

Code No.	Item	N.S.W.	Vic.	Qld	S.A.	W.A. & Tas.	Australia
Architectural and decorative paints, enamels and clears (a)—							
	Solvent thinned—						
410.01	Primers and undercoats	279,950	168,979	188,769	40,619	22,008	700,325
	Finishing coats, pigmented—						
410.03	Full gloss	408,023	330,625	274,163	43,099	47,692	1,103,602
410.05	Other than full gloss	107,444	122,025	63,398	24,879	24,595	422,341
410.07	Finishing coats, clears	271,142	106,035	10,717	5,741	7,113	400,748
	Water thinned—						
	Plastic latex—						
410.11	Primers and undercoats	71,542	70,847	59,677	5,770	6,442	214,278
	Finishing coats—						
410.13	Flat	811,394	580,167	177,284	142,215	185,995	1,897,055
410.15	Other than flat (satin, semi-gloss, gloss)	261,219	303,734	284,325	62,369	84,900	996,547
410.17	Other water based	118,151	75,743	n.p.	6,510	n.p.	211,906
410.25	Tinting colours, all types, packed for sale or transfer out	21,205	10,623	n.p.	n.p.	—	43,219
Industrial paints, enamels and clears (includes lacquers and water thinned industrial products)—							
	Automotive—						
410.31	Primers and undercoats	71,585	149,824	n.p.	43,643	n.p.	298,727
	Finishing coats—						
410.33	Nitro-cellulose lacquers	9,678	n.p.	—	n.p.	—	21,388
410.37	Other	126,797	355,927	n.p.	n.p.	7,092	604,535
410.41	Other industrial—						
	Primers and undercoats	168,377	164,040	81,267	20,094	21,459	455,237
	Finishing coats—						
	Nitro-cellulose lacquers—						
410.43	Clears	128,086	69,544	n.p.	n.p.	n.p.	257,501
410.45	Colours	60,763	33,274	n.p.	n.p.	n.p.	111,266
	Other—						
410.47	Clears	202,647	235,612	n.p.	n.p.	14,816	484,419
410.49	Colours	817,905	391,243	97,004	90,258	54,663	1,451,073
410.55	Heavy duty coatings	305,951	127,195	n.p.	n.p.	53,095	583,894
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out (b)	176,045	121,158	48,678	n.p.	n.p.	353,870
410.59	Marine coatings (c)	84,046	n.p.	n.p.	n.p.	n.p.	217,837
410.65	Bituminous paints, not elsewhere included (d)	121,686	2,813	n.p.	n.p.	—	128,430
410.67	Decorative seamless flooring compounds	n.p.	n.p.	n.p.	n.p.	n.p.	3,979
410.69	Water shedding preparations	31,446	8,950	8,483	n.p.	n.p.	64,481
410.79	Other paints and coatings not elsewhere included (excludes leather dressings)	79,405	152,752	54,079	n.p.	n.p.	376,094
	Thinners—						
410.85	For nitro-cellulose coatings	258,598	221,249	111,619	75,403	69,501	746,370
410.87	For all other coatings	425,161	275,053	174,231	106,378	48,075	1,028,898

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
1977-78	207,621	69,982	82,877	328,198	93,586	35,252	817,516
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
1979—							
July	18,912	6,806	10,298	31,024	9,240	2,459	78,729
August	18,570	9,442	9,401	36,562	9,688	1,939	85,582
September	18,070	6,378	9,697	29,964	9,709	3,831	77,649
October	19,256	9,496	10,887	26,914	9,697	1,919	78,169
November	18,817	6,365	8,115	33,359	8,282	1,966	76,904
December	15,346	5,777	8,123	25,927	7,061	1,200	63,434
1980—							
January	18,070	6,935	12,435	28,143	8,878	3,648	78,109
February	18,923	6,618	8,907	32,449	9,735	3,828	79,460
March	19,779	8,568	10,121	31,115	9,921	1,174	82,678
April	18,790	7,948	10,290	34,526	9,826	2,079	83,448
May	19,679	8,163	10,091	29,331	9,798	2,729	79,791
June	17,248	8,781	10,688	39,288	8,811	2,886	87,702
July	19,881	8,018	11,238	35,110	9,162	1,789	85,198
August	19,122	7,403	10,665	31,497	10,626	2,622	82,135
1979-80: July to Aug.	37,482	16,248	19,699	67,586	18,988	4,398	164,311
1980-81: July to Aug.	39,003	15,421	21,903	66,607	19,988	4,411	167,333

(a) Excludes heavy duty coatings. (b) Includes part-pigmented, Madiason 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 no. 351.29 only. (f) Prior to July 1978, includes code no. 351.25.

PULP, PAPER BOARDS AND PAPER FELTS
(Tonnes)

Period	Paper boards (a)						Paper felts (353.01)
	Wood pulp (b)			Other			
				Uncoated			
				Box and carton (357.21.23)	Box and container (352.13)	Other (352.33)	
Chemical (341.31-37)	Mechanical (341.39)	Other (341.45)					
1977-78	141,892	193,368	243,187	119,573	268,345	44,798	93
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.
1979—							
July	13,883	16,770	22,600	9,268	20,639	4,189	—
August	14,398	17,878	26,121	10,573	25,283	8,209	—
September	12,792	17,536	22,907	10,811	23,083	4,202	n.p.
October	13,281	15,520	21,433	10,150	25,408	2,078	—
November	14,680	18,467	27,175	10,647	25,466	7,645	—
December	13,775	17,313	32,140	10,986	24,522	5,284	—
1980—							
January	10,481	10,168	29,671	6,677	22,794	5,399	n.p.
February	14,237	23,146	25,231	8,313	27,943	4,481	—
March	13,582	19,386	23,909	9,473	28,145	4,254	—
April	15,791	19,675	28,539	11,567	26,986	7,498	—
May	14,389	20,389	26,726	10,791	18,860	3,905	—
June	17,438	19,044	27,387	9,982	28,796	4,590	—
July	14,801	17,969	27,921	10,853	27,040	6,456	—
August	11,023	20,530	24,457	11,250	29,973	3,651	—
1979-80: July to Aug.	28,281	34,648	48,721	19,841	45,922	12,398	—
1980-81: July to Aug.	25,824	38,499	52,378	22,103	57,013	10,107	—

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) (769.14.41)
		Paper (769.51)	Cellulose (769.53)	Plastic (769.54)	Other (c) (769.52.59)		Paper (769.15)	Cloth and other (769.16.19)		
1977-78	n.p.	8,223	5,368	8,146	264	2,737	4,280	530	311	724
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
1979—										
July	366	953	452	977	30	169	466	n.p.	22	37
August	380	583	470	1,472	51	177	333	n.p.	35	59
September	588	906	383	995	48	169	527	n.p.	27	38
October	808	956	510	1,113	28	252	493	66	43	73
November	n.p.	764	358	1,099	54	n.p.	371	n.p.	n.p.	n.p.
December	n.p.	526	427	964	17	n.p.	401	n.p.	n.p.	n.p.
1980—										
January	n.p.	226	191	264	4	n.p.	225	n.p.	n.p.	n.p.
February	n.p.	728	459	702	54	n.p.	329	n.p.	n.p.	n.p.
March	n.p.	732	464	813	36	n.p.	378	n.p.	n.p.	44
April	n.p.	643	456	685	26	n.p.	87	149	n.p.	n.p.
May	n.p.	449	447	605	30	n.p.	253	96	n.p.	n.p.
June	n.p.	740	412	938	19	n.p.	314	32	n.p.	45
July	n.p.	853	243	899	34	n.p.	235	82	n.p.	64
August	n.p.	700	200	888	33	n.p.	502	n.p.	n.p.	18
1979-80: July to Aug.	746	1,536	922	2,449	81	346	799	n.p.	57	96
1980-81: July to Aug.	n.p.	1,553	444	1,787	67	n.p.	738	n.p.	n.p.	82

(a) Paper exceeding 205 grammes per square metre is classified as paper board. (b) Quantities shown represent tonnes air-dried. (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	Powder and granule		
	Solid and powder (805.01, 03)	Liquid and paste (805.05)				Solid (bar), flakes and chips (b) (805.22,24, 46,48,58)	Small packs (c) (805.26)	Large packs (d) (805.50)
1977-78	26,824	659	1,370	972	29,825	10,907	6,075	1,838
1978-79	28,221	741	2,105	893	31,960	10,668	5,547	1,458
1979-80	28,208	895	1,625	1,080	31,808	10,552	5,624	990
1979—								
July	2,917	64	133	94	3,208	1,087	663	81
August	2,286	83	170	85	2,624	1,263	473	133
September	2,530	60	130	54	2,774	960	661	150
October	3,128	72	99	155	3,454	838	432	48
November	2,310	66	160	72	2,608	882	616	84
December	1,491	65	135	97	1,788	457	482	31
1980—								
January	1,261	57	71	47	1,436	953	n.p.	43
February	2,149	100	144	61	2,454	746	n.p.	93
March	2,541	100	124	110	2,875	743	746	46
April	2,202	80	157	107	2,546	827	391	57
May	2,863	76	135	80	3,154	878	314	129
June	2,530	72	167	118	2,887	918	336	95
July	2,823	77	151	131	3,182	1,178	330	134
August	2,731	92	97	49	2,969	786	413	116
1979-80: July to Aug.	5,203	147	303	179	5,832	2,350	1,136	214
1980-81: July to Aug.	5,554	169	248	180	6,151	1,964	743	250

**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) (805.34,36)
1977-78	802	2,465	696	2,813	590	26,187	468	359	706
1978-79	1,192	2,145	571	2,783	709	25,073	415	365	539
1979-80	611	1,931	582	2,645	776	23,741	459	404	489
1979—									
July	52	183	46	221	69	2,402	50	40	31
August	65	180	41	205	49	2,415	29	27	43
September	52	182	57	211	57	2,340	31	29	40
October	55	155	32	261	61	1,890	35	28	39
November	54	185	46	253	100	2,224	37	64	56
December	63	136	55	210	53	1,491	35	25	43
1980—									
January	45	142	43	200	54	1,825	38	34	36
February	65	180	74	231	86	1,648	41	32	48
March	59	136	37	176	67	2,010	20	—	48
April	47	139	47	207	58	1,773	61	31	42
May	55	182	59	222	84	1,923	46	38	48
June	29	131	45	208	38	1,800	36	18	15
July	92	147	59	186	70	2,196	19	30	36
August	68	140	43	170	73	1,809	30	40	33
1979-80: July to Aug.	117	363	87	432	118	4,817	79	67	74
1980-81: July to Aug.	160	287	102	356	143	4,005	49	70	69

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

DETERGENTS (Tonnes)

Period	Synthetic							
	Non-abrasive							
	Abrasive cleaners and scourers		For personal toilet use			For other purposes		
			Solid and powder (806.02)	Liquid paste and cream		Liquid paste and cream		Other (806.10, 14.30.32)
	Small packs (806.18, 20.22)	Large packs (806.36)		Toilet (806.04)	Shampoo (806.16)	Small packs (a) (806.34)	Large packs (b) (806.34)	
1977-78	10,038	935	1,707		9,226	53,060	24,952	81,911
1978-79	8,634	1,035	1,468		9,538	54,444	28,757	80,516
1979-80	9,383	1,185	1,583		10,009	61,213	32,414	86,450
1979—								
July	861	105	130		932	6,288	2,482	9,717
August	724	117	152		1,004	5,174	2,823	7,826
September	802	128	154		982	4,757	2,702	6,811
October	760	110	148		908	5,851	2,833	8,359
November	655	91	145		772	4,525	2,675	7,424
December	666	72	101		657	3,348	2,467	5,256
1980—								
January	571	73	119		702	2,937	2,150	4,425
February	902	122	104		832	5,831	2,839	6,086
March	877	103	130		884	6,241	3,278	9,650
April	744	60	121		733	5,071	2,489	6,667
May	1,008	89	164		655	5,535	3,087	8,339
June	813	115	115		858	5,665	2,589	5,890
July	996	107	150		909	6,049	2,526	8,212
August	564	84	108		981	5,741	2,720	6,494
1979-80: July to Aug.	1,585	222	282		1,936	11,462	5,305	17,543
1980-81: July to Aug.	1,560	191	258		1,980	11,790	5,246	14,706

DETERGENTS—continued AND PLASTIC COATED MATERIALS (c)

Period	Plastic coated materials							
	Other detergents		Total detergents	Vinyl chloride (incl. co-polymers on knitted or woven textile material)		Vinyl chloride (incl. co-polymers and poly-vinylidene chloride on paper or paperboard) (excl. bitumen treated)		Other polymers on knitted and woven textile materials (424.61)
	Alkaline (806.40)	Emulsion cleansers (806.44)		Expanded (424.30)	Other (424.32)	On regenerated cellulose film (424.33.51)	Polyethylene On other substitutes (424.42)	
	— tonnes —		— tonnes —	— '000 square metres —		— '000 square metres —		— tonnes —
	Alkaline (806.40)	Emulsion cleansers (806.44)		Expanded (424.30)	Other (424.32)	On regenerated cellulose film (424.33.51)	Polyethylene On other substitutes (424.42)	
1977-78	20,880	6,621	7,523	216,683	4,699	7,601	2,470	34,764
1978-79	21,741	6,214	7,348	219,695	4,984	7,944	1,206	77,812
1979-80	21,468	6,999	7,931	238,635	4,250	6,248	4,727	84,439
1979—								
July	1,753	528	625	23,421	359	597	n.p.	694
August	1,982	676	572	21,050	518	871	n.p.	326
September	1,966	567	614	19,483	387	642	n.p.	486
October	1,878	659	834	22,400	475	612	n.p.	492
November	2,042	646	746	19,721	359	712	n.p.	n.p.
December	1,644	528	576	15,315	278	334	n.p.	6,603
1980—								
January	1,451	369	518	13,305	108	211	n.p.	694
February	1,938	686	768	20,108	367	545	n.p.	326
March	1,872	539	747	24,321	375	426	n.p.	486
April	1,652	630	707	18,874	306	431	n.p.	492
May	1,844	677	600	22,028	436	546	n.p.	n.p.
June	1,446	494	624	18,609	282	321	n.p.	322
July	1,934	488	616	22,077	392	604	n.p.	722
August	1,861	559	529	19,661	397	457	n.p.	n.p.
1979-80: July to Aug.	3,735	1,204	1,197	44,471	878	1,468	n.p.	1,020
1980-81: July to Aug.	3,815	1,047	1,145	41,738	789	1,061	n.p.	10,505

(a) Contains 3kg or less of solid or 5 litres or less of liquid. Excludes 'dairy cleansers'. (b) Contains over 3kg 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
(¹ 000 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)			
1977-78	15,742	64,756	2,166	8,225	15,108	105,996
1978-79	15,932	74,063	2,743	8,575	16,080	117,393
1979-80	17,465	85,522	3,515	7,642	17,414	131,557
1979—						
July	1,673	7,961	296	717	1,740	12,388
August	1,864	7,423	298	697	1,584	11,866
September	1,615	7,752	338	715	1,327	11,747
October	1,815	7,197	338	709	1,725	11,784
November	1,993	7,253	279	722	1,928	12,175
December	1,180	6,008	283	546	1,025	9,043
1980—						
January	813	5,148	217	444	979	7,601
February	1,389	7,504	335	636	1,317	11,181
March	1,427	7,793	339	693	1,479	11,731
April	1,259	6,718	287	666	1,290	10,220
May	1,363	7,707	263	580	1,579	11,492
June	1,072	7,058	242	517	1,439	10,329
July	1,621	7,155	267	637	1,667	11,347
August	1,549	6,762	277	648	1,680	10,916
1979-80: July to Aug.	3,538	15,384	594	1,413	3,325	24,254
1980-81: July to Aug.	3,170	13,918	544	1,284	3,347	22,263

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

Period	Film (thickness less than 0.25 mm)			Sheeting and sheets (thickness 0.25 mm and over)		
	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
1977-78	8,711	74,928	83,639	7,031	15,327	22,357
1978-79	9,472	83,420	92,892	6,461	18,041	24,501
1979-80	10,755	98,686	109,442	6,709	15,406	22,115
1979—						
July	1,018	9,102	10,121	655	1,613	2,268
August	1,098	8,625	9,723	766	1,377	2,143
September	1,136	8,838	9,974	479	1,294	1,772
October	1,180	8,527	9,707	635	1,442	2,077
November	1,153	8,459	9,611	840	1,723	2,563
December	783	6,887	7,671	397	975	1,372
1980—						
January	475	5,885	6,360	337	904	1,241
February	875	8,588	9,463	514	1,204	1,718
March	902	8,937	9,839	524	1,367	1,891
April	751	7,747	8,498	508	1,215	1,722
May	726	8,888	9,614	637	1,240	1,878
June	656	8,204	8,860	416	1,053	1,469
July	911	8,385	9,296	710	1,341	2,051
August	923	7,943	8,866	625	1,424	2,050
1979-80: July to Aug.	2,117	17,727	19,844	1,421	2,990	4,410
1980-81: July to Aug.	1,834	16,327	18,162	1,336	2,765	4,101

(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.