



PRODUCTION BULLETIN NO. 6 : CHEMICALS AND BY-PRODUCTS AUSTRALIA, APRIL 1982

PHONE INQUIRIES *for more information about these statistics—contact Mr Keith Woolford 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 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

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CHEMICALS AND ACIDS

Period	Acids (in terms of 100% acid)					
	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Sulphate of ammonia (403.36)	Super- phosphate (b)
			Original	Seas. adj.(a)		
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
1981—						
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
December	5,056	18,198	187	179	18,247	365
1982—						
January	4,595	14,202	174	167	18,933	297
February	4,410	9,600	173	165	11,833	317
March	3,642	18,741	182	162	10,618	391
April	3,548	10,293	179	151	15,607	344
1980-81 : July to Apr.	49,465	151,125	1,632	..	182,344	3,173
1981-82 : July to Apr.	46,025	154,431	1,647	..	174,497	2,947

PLASTICISERS AND PLASTICS AND SYNTHETIC RESINS
(Tonnes)

Period	Plastics and synthetic resins							Total	
	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)
					For moulding, extrusion, laminating, calendaring, etc.				
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	
1981—									
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	(e)	8,290	47,629	
August	n.p.	991	1,798	15,319	639	(e)	7,107	42,703	
September	n.p.	1,206	1,874	18,094	637	(e)	10,248	54,573	
October	n.p.	1,127	1,916	12,275	592	(e)	9,385	44,976	
November	n.p.	946	2,016	10,376	459	(e)	6,646	40,658	
December	n.p.	694	1,829	11,266	321	(e)	7,003	45,378	
1982—									
January	n.p.	320	951	17,488	117	(e)	9,297	44,815	
February	n.p.	601	1,551	11,830	472	(e)	7,572	36,156	
March	n.p.	835	1,550	14,695	603	(e)	9,973	44,228	
April	n.p.	729	1,503	19,985	507	(e)	9,812	46,748	
1980-81 : July to Apr.	n.p.	7,365	18,112	156,447	4,672	(d)	246,607	433,203	
1981-82 : July to Apr.	n.p.	8,309	17,128	148,918	4,803	(d)	85,333	441,913	

(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, celluloseics, vinyls (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	Alkyds	Phenolics	Polyvinyl	Rosin	Styrenes	Ureas and	Polyesters	Other	Total
	(a) (404.01)	(a) (404.02)	(a) (404.32)	acetate (a) (404.88)	esters (a) (404.48)	(a) (404.62)	melamines (a) (404.74)	(a) (404.44)	(a) (404.94)	
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	7,053	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
1981—										
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	583	183	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
December	1,171	3,264	199	828	243	n.p.	138	n.p.	494	6,459
1982—										
January	761	3,104	140	450	195	n.p.	144	n.p.	346	5,266
February	1,131	7,459	214	761	233	n.p.	155	n.p.	510	10,426
March	1,180	3,704	194	884	262	n.p.	162	n.p.	631	7,211
April	1,064	3,444	197	492	280	n.p.	136	n.p.	593	6,363
1980-81 : July to Apr.	8,962	31,445	1,851	6,417	2,552	n.p.	1,476	n.p.	4,563	58,718
1981-82 : July to Apr.	10,476	38,483	1,976	6,517	2,475	n.p.	1,491	n.p.	5,041	68,012

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

Period	For bonding and adhesives(a)				Total	For other purposes(b)			Total for all purposes
	Phenolics (404.34)	Polyvinyl acetate (404.90)	Ureas and melamines (404.76)	Other (404.96)		Vinyls (404.84)	Other (c)	Total	
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
1981—									
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
December	342	669	3,089	174	4,274	n.p.	n.p.	7,294	57,454
1982—									
January	244	310	1,341	87	1,984	n.p.	n.p.	7,372	59,437
February	668	493	3,389	188	4,738	n.p.	n.p.	6,509	58,029
March	805	642	4,202	225	5,874	n.p.	n.p.	7,811	65,124
April	583	521	2,610	294	4,008	n.p.	n.p.	9,212	66,331
1980-81 : July to Apr.	4,838	4,154	29,387	11,859	40,238	n.p.	n.p.	75,141	607,300
1981-82 : July to Apr.	5,659	6,044	30,789	12,058	44,550	n.p.	n.p.	81,763	636,238

(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 404.36, 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)(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, 65.07)	(410.11, 13.15)	(410.17)	(410.25)	(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	34,273
1981—								
March	880	2,243	3,668	246	34.4	1,152	552	3,377
April	809	2,073	3,594	192	34.9	1,001	462	2,990
May	898	2,144	3,792	180	38.3	1,156	464	3,263
June	628	1,460	2,825	171	31.8	821	396	2,061
July	916	2,284	4,246	220	34.3	1,094	524	3,382
August	731	2,050	3,958	187	50.0	1,062	467	3,391
September	904	2,243	4,631	240	59.2	1,179	501	3,447
October	764	1,791	3,818	357	44.5	985	545	3,008
November	663	1,608	3,271	242	40.9	822	485	2,411
December	881	2,286	4,795	281	46.3	1,092	458	3,334
1982—								
January	780	1,982	3,865	213	32.5	705	283	2,312
February	849	2,361	4,524	337	49.7	1,023	486	3,063
March	906	2,363	4,565	358	44.2	1,066	552	3,450
April	663	1,656	3,251	255	47.6	985	423	2,660
1980-81 : July to Apr.	8,296	21,335	36,363	2,181	405	9,161	4,640	28,950
1981-82 : July to Apr.	8,055	20,624	40,925	2,690	449	10,013	4,724	30,459

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

Period	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d)	Marine coatings(e)	Bituminous paints not elsewhere included(f)	Water shedding preparations	Other paints and coatings(g)	Thinners	
						For nitro- cellulose coatings	For all other coatings
	(410.57)	(410.59)	(410.65)	(410.69)	(410.55,67,79)	(410.85)	(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
1981—							
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	818	1,306
August	358	221	204	81.1	1,178	746	1,248
September	376	205	136	80.0	1,410	860	1,443
October	279	117	151	56.9	1,128	718	1,049
November	299	64	166	68.8	844	845	1,002
December	410	152	145	80.3	1,196	842	1,225
1982—							
January	303	139	108	54.6	837	576	968
February	407	212	142	76.5	1,060	804	1,262
March	461	240	118	100.3	1,258	782	1,201
April	319	146	96	59.9	1,121	588	988
1980-81 : July to Apr.	3,560	2,085	1,353	691	10,523	7,911	11,212
1981-82 : July to Apr.	3,735	1,630	1,374	778	11,268	7,579	11,703

(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, Madison and Crososone types for all uses including industrial. (e) Excludes super structure paints which are included with architectural and decorative paints. (f) Excludes oil body sound conditioners, heavy duty coatings and marine bituminous coatings. (g) Includes heavy duty coatings and decorative seamless flooring compounds and other paints and conditioners not elsewhere included. Excludes leather dressings.

PAINTS AND OTHER SURFACE COATINGS: STATES—APRIL 1982
(Litres)

Code No.	Item	N.S.W.	Vic.	Qld	S.A.	W.A. and Tas.	Australia
Architectural and decorative paints, enamels and clears(a)—							
Solvent thinned—							
410.01	Primers and undercoats	262,900	153,886	175,482	31,726	38,665	662,659
	Finishing coats, pigmented—						
410.03	Full gloss	371,335	280,127	207,188	69,865	33,835	962,350
410.05	Other than full gloss	204,648	103,087	50,300	17,144	28,951	404,130
410.07	Finishing coats, clears	155,709	87,410	n.p.	n.p.	8,659	289,551
Water thinned—							
Plastic latex—							
410.11	Primers and undercoats	79,090	68,828	33,937	n.p.	n.p.	203,496
	Finishing coats—						
410.13	Flat	662,223	536,146	260,997	93,865	223,514	1,776,745
410.15	Other than flat (satin, semi-gloss, gloss)	319,530	420,184	338,544	101,129	91,670	1,271,057
410.17	Other water based	77,645	121,202	n.p.	n.p.	16,259	254,548
410.25	Tinting colours, all types, packed for sale or transfer out	n.p.	8,963	n.p.	n.p.	—	47,587
Industrial paints, enamels and clears (includes lacquers and water thinned industrial products)—							
Automotive—							
410.31	Primers and undercoats	56,835	241,618	n.p.	28,702	n.p.	390,231
	Finishing coats—						
410.33	Nitro-cellulose lacquers	14,557	n.p.	—	n.p.	—	30,022
410.37	Other	153,252	479,763	n.p.	n.p.	n.p.	772,930
410.41	Other industrial—						
	Primers and undercoats	218,793	226,700	83,428	39,475	25,992	594,388
	Finishing coats—						
	Nitro-cellulose lacquers—						
410.43	Clears	113,919	84,156	n.p.	27,812	n.p.	279,897
410.45	Colours	68,440	30,061	n.p.	10,884	n.p.	112,799
	Other—						
410.47	Clears	226,694	233,285	16,365	n.p.	n.p.	484,902
410.49	Colours	394,406	525,859	91,779	120,017	70,398	1,402,459
410.55	Heavy duty coatings	145,820	126,638	90,888	n.p.	n.p.	612,696
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b)	59,344	49,389	n.p.	n.p.	n.p.	319,097
410.59	Marine coatings(c)	88,789	2,467	n.p.	n.p.	n.p.	146,311
410.65	Bituminous paints, not elsewhere included(d)	—	—	n.p.	n.p.	n.p.	95,574
410.67	Decorative seamless flooring compounds	28,495	—	—	—	n.p.	n.p.
410.69	Water shedding preparations	115,175	244,161	13,073	n.p.	n.p.	59,885
410.79	Other paints and coatings not elsewhere included (excludes leather dressings)	n.p.	n.p.	n.p.	60,248	n.p.	507,914
	Thinners—						
410.85	For nitro-cellulose coatings	228,435	201,198	74,992	19,150	64,855	588,497
410.87	For all other coatings	339,720	288,843	199,062	91,500	78,376	997,501

PAPER
(Tonnes)

Period	Writings and duplicating(e)						Total
	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)	
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
1981—							
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	2,786	74,814
August	20,814	8,007	8,300	32,805	10,142	1,678	82,854
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
December	21,512	8,437	10,237	33,664	7,773	2,155	83,778
1982—							
January	27,726	7,009	10,260	27,816	8,979	1,581	83,371
February	25,994	6,813	10,322	25,704	9,296	3,247	81,376
March	31,284	8,364	9,019	33,729	9,607	2,623	94,626
April	28,112	7,162	6,315	38,645	9,538	1,394	91,166
1980-81 : July to Apr.	178,542	82,062	98,620	337,019	88,257	21,387	805,887
1981-82 : July to Apr.	248,415	74,155	84,857	294,200	88,717	23,833	814,297

(a) Excludes heavy duty coatings. (b) Includes part-pigmented, Madras 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	—
1981—							
March	14,923	20,214	27,597	8,920	27,833	5,148	—
April	13,763	18,748	27,395	9,570	24,957	3,349	—
May	13,448	18,796	23,755	8,388	22,440	3,956	—
June	15,480	18,088	28,487	12,074	25,848	5,226	—
July	13,787	17,062	24,620	9,101	25,488	5,893	—
August	11,165	19,153	24,296	9,827	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	—
December	13,814	15,849	25,463	9,794	28,710	4,322	—
1982—							
January	18,554	15,950	23,055	5,499	17,820	3,053	—
February	18,188	—	25,047	8,840	23,063	4,068	—
March	16,704	18,270	26,795	10,426	24,639	9,364	—
April	19,045	20,077	22,862	12,543	23,508	4,208	—
1980-81 : July to Apr.	139,627	182,650	267,367	94,377	258,496	42,108	—
1981-82 : July to Apr.	144,613	180,721	225,429	93,668	223,816	48,253	—

ADHESIVE TAPES
(* 000 square metres)

Period	Produced in establishment					Converted from rolls purchased or transferred in				
	Gummed (liquid activated) (769.21,31)	Pressure sensitive (non-reinforced)				Gummed (liquid activated) (769.08,09)	Pressure sensitive (non-reinforced)			Pressure sensitive reinforced (d) (769.14,41)
		Original manufacture					Paper	Cellulose and plastic (769.17,18)	Cloth and other (769.16,19)	
		Paper (769.51)	Cellulose (769.53)	Plastic (769.54)	Other(c) (769.52,59)					
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
1981—										
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
December	n.p.	356	289	664	60	n.p.	287	n.p.	n.p.	51
1982—										
January	n.p.	131	155	374	44	n.p.	154	n.p.	n.p.	n.p.
February	n.p.	344	319	715	26	n.p.	328	n.p.	n.p.	n.p.
March	n.p.	402	231	1,065	24	n.p.	477	n.p.	n.p.	n.p.
April	n.p.	458	114	688	17	n.p.	342	n.p.	n.p.	n.p.
1980-81 : July to Apr.	n.p.	6,091	4,167	7,701	n.p.	n.p.	3,416	1,142	n.p.	541
1981-82 : July to Apr.	n.p.	4,634	3,244	6,677	281	n.p.	3,138	n.p.	n.p.	n.p.

(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				Total	For other purposes—non-abrasive		
	Toilet		Shampoo (805.08)	Shaving(a) (805.10, 11.13)		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	10,552	5,624	990
1980-81	28,318	1,431	1,519	968	32,236	10,060	4,113	1,462
1981—								
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
December	2,419	134	154	137	2,844	629	476	119
1982—								
January	1,534	72	60	72	1,738	531	236	101
February	2,588	144	129	89	2,950	747	390	123
March	2,395	116	160	116	2,987	710	471	159
April	2,190	85	126	54	2,455	580	323	122
1980-81 : July to Apr.	22,979	1,203	1,283	753	26,218	8,556	3,503	1,250
1981-82 : July to Apr.	25,951	1,284	1,327	842	29,404	7,686	3,661	1,372

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

Period	For other purposes—non-abrasive—continued					Total	Abrasive cleansers and scourers		
	Liquid				Soft (incl. paste) (805.34,56)		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)					
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	1,612	638	1,763	757	21,356	323	392	418
1981—									
March	91	146	59	142	82	1,951	n.p.	45	39
April	128	121	52	131	58	1,687	n.p.	30	30
May	64	135	54	133	70	1,655	n.p.	37	31
June	94	144	41	108	74	1,588	n.p.	40	31
July	85	158	50	113	49	1,995	n.p.	55	32
August	60	170	37	147	55	1,440	n.p.	44	25
September	77	173	39	145	68	2,004	n.p.	24	27
October	86	139	43	140	51	2,014	n.p.	34	37
November	93	155	57	148	65	1,953	n.p.	38	24
December	25	159	50	138	51	1,647	n.p.	24	25
1982—									
January	90	125	45	129	18	1,275	n.p.	21	16
February	84	151	57	138	116	1,734	n.p.	34	29
March	77	160	40	169	69	1,855	n.p.	25	32
April	78	136	45	174	66	1,524	n.p.	29	29
1980-81 : July to Apr.	793	1,333	543	1,522	613	18,113	n.p.	315	356
1981-82 : July to Apr.	755	1,526	463	1,441	536	17,441	n.p.	328	276

(a) Includes solid shaving soap. (b) Includes woolscouring soap in large packs. (c) Contains 3 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	
	For other purposes							
	Abrasive cleaners and scourers		For personal toilet use		Liquid paste and cream			
	Small packs (806.18, 20.22)	Large packs (806.36)	Shampoo (806.06)	Other (806.02.04)	Small packs(a) (808.16)	Large packs(b) (806.34)		Other (806.10, 14.30,32)
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	7,855	1,242	10,340	1,524	65,538	35,369	77,205	199,073
1981—								
March	405	82	1,033	182	5,715	3,418	5,293	16,128
April	703	125	893	126	5,884	2,828	6,087	16,646
May	711	166	842	168	5,596	3,290	6,209	16,982
June	778	180	746	115	6,625	4,213	6,707	19,363
July	803	122	1,041	175	5,754	3,329	7,502	18,726
August	710	116	916	94	6,602	2,775	7,061	18,273
September	605	88	890	95	7,044	3,085	7,485	19,292
October	643	64	989	138	8,062	2,870	9,149	21,895
November	624	72	887	116	6,493	3,195	7,163	18,550
December	655	71	884	108	4,205	2,941	6,671	15,536
1982—								
January	331	76	923	86	3,462	1,822	2,470	9,170
February	460	88	1,024	103	4,114	2,929	9,111	17,829
March	1,079	117	1,073	212	6,515	3,251	6,128	18,775
April	607	89	860	163	4,752	2,610	7,229	16,310
1980-81 : July to Apr.	6,366	896	8,752	1,241	53,318	27,866	64,289	162,728
1981-82 : July to Apr.	6,518	883	9,487	1,289	57,003	28,807	69,969	173,956

OTHER DETERGENTS AND PLASTIC COATED MATERIALS(c)

Period	Other detergents						Plastic coated materials				Other polymers on knitted and woven textile materials (424.61)				
	Alkaline (806.40)		Emulsion cleaners (806.44)		Other (incl. acid cleaners) (806.25, 42.45)		Vinyl chloride (incl. co-polymers on knitted or woven textile material)		Vinyl chloride (incl. co-polymers on paper or paperboard)			Polyethylene			
	— tonnes —		— tonnes —		— tonnes —		Expanded (424.30)		Other (424.32)			On regenerated cellulose film (424.42)		On other substrates (424.47)	
	— '000 square metres —		— '000 square metres —		— '000 square metres —		— '000 square metres —		— '000 square metres —			— '000 square metres —		— '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	236,635	6,250	6,248	n.p.	4,727	123,268	5,295					
1980-81	23,068	6,529	7,037	235,707	4,642	5,951	n.p.	n.p.	152,886	4,568					
1981—															
March	2,114	603	691	19,536	575	631	n.p.	n.p.	15,190	496					
April	1,805	638	559	19,648	364	454	n.p.	n.p.	12,900	463					
May	1,885	544	538	19,949	432	696	n.p.	n.p.	14,947	321					
June	1,910	599	590	22,462	537	545	n.p.	n.p.	16,316	297					
July	2,017	502	594	21,839	428	338	n.p.	n.p.	13,417	200					
August	2,021	490	648	21,432	462	394	n.p.	n.p.	16,660	147					
September	1,913	522	692	22,459	525	471	n.p.	n.p.	14,920	193					
October	1,958	533	658	25,044	450	371	n.p.	n.p.	11,257	212					
November	1,880	579	707	21,716	399	399	n.p.	n.p.	19,478	228					
December	2,051	449	664	18,700	326	384	n.p.	n.p.	18,004	160					
1982—															
January	1,695	353	718	11,936	n.p.	206	n.p.	n.p.	13,195	125					
February	1,954	590	641	20,924	n.p.	335	n.p.	n.p.	17,599	154					
March	2,320	460	730	21,885	n.p.	394	n.p.	n.p.	14,200	144					
April	2,226	804	668	20,008	n.p.	384	n.p.	n.p.	14,904	116					
1980-81 : July to Apr.	19,273	5,386	5,909	193,296	3,673	4,711	n.p.	n.p.	121,623	3,950					
1981-82 : July to Apr.	20,055	5,192	6,720	205,923	n.p.	3,677	n.p.	n.p.	153,634	1,679					

(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 a dry method including laminating on continuous supporting materials. Includes production of the specified combinations even if subsequently used in the same establishment, or 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	2,671	7,068	15,822	124,684
1981—						
March	1,624	7,503	196	664	1,235	11,222
April	1,227	6,616	219	533	1,026	9,621
May	1,592	7,672	197	437	1,233	11,131
June	1,684	7,753	167	557	1,509	11,669
July	1,812	6,668	185	650	1,394	10,708
August	1,916	6,589	185	499	1,353	10,542
September	2,239	7,767	245	531	1,282	12,065
October	1,868	7,388	280	420	1,232	11,187
November	1,793	7,598	231	503	1,533	11,657
December	1,638	5,665	211	430	1,010	8,954
1982—						
January	744	3,613	88	272	536	5,253
February	1,438	6,388	268	316	1,077	9,487
March	1,673	7,312	197	357	1,191	10,730
April	1,310	5,809	205	333	875	8,533
1980-81 : July to Apr.	14,573	65,844	2,307	6,074	13,080	101,884
1981-82 : July to Apr.	16,432	64,797	2,094	4,310	11,483	99,117

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	92,110	102,618	7,346	14,720	22,067	124,684
1981—							
March	995	8,400	9,394	629	1,198	1,827	11,222
April	829	7,417	8,245	398	977	1,375	9,621
May	908	8,512	9,420	684	1,028	1,711	11,131
June	1,043	8,683	9,726	641	1,302	1,943	11,669
July	1,010	7,666	8,676	802	1,230	2,032	10,708
August	1,177	7,541	8,718	738	1,085	1,824	10,542
September	1,329	8,239	9,568	910	1,586	2,497	12,065
October	1,040	8,033	9,073	828	1,286	2,114	11,187
November	926	8,408	9,334	867	1,456	2,323	11,657
December	770	6,384	7,153	869	932	1,801	8,954
1982—							
January	412	3,987	4,400	332	522	854	5,253
February	757	7,335	8,093	680	714	1,394	9,487
March	847	8,240	9,087	826	817	1,643	10,730
April	737	6,571	7,308	573	651	1,225	8,533
1980-81 : July to Apr.	8,557	74,915	83,472	6,021	12,391	18,412	101,884
1981-82 : July to Apr.	9,006	72,405	81,411	7,426	10,281	17,706	99,117

(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.