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

- PHONE INQUIRIES** for more information about these statistics—contact Mr Cyril Rees 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 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, 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), 1978-79 (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) 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

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Acting 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)	Super- phosphate (b)
			Original (401.57)	Seas. adj.(a)		
	tonnes	tonnes	— '000 tonnes —		tonnes	'000 tonnes
1977-78	53,386	159,513	1,799	..	217,404	3,388
1978-79	58,143	168,596	1,922	..	211,867	3,646
1979-80	62,693	179,654	2,175	..	202,846	4,179
1979—						
December	6,962	10,495	186	171	22,961	356
1980—						
January	4,617	11,707	188	178	17,987	374
February	7,025	14,195	190	179	10,846	398
March	5,426	17,639	206	184	17,660	427
April	4,444	16,943	214	188	15,058	457
May	3,221	16,322	202	182	12,683	423
June	5,197	5,947	177	197	12,947	319
July	5,029	19,996	138	179	18,235	221
August	4,921	17,025	143	177	15,419	255
September	5,537	12,683	134	139	19,294	215
October	5,136	19,896	138	143	17,780	296
November	4,273	5,856	176	169	15,935	358
December	5,007	9,207	168	156	22,643	358
1981—						
January	4,332	13,587	197	183	18,205	377
1979-80 : July to Jan.	37,380	108,608	1,187	..	133,652	2,155
1980-81 : July to Jan.	34,235	98,250	1,095	..	127,511	2,079

PLASTICISERS AND PLASTICS AND SYNTHETIC RESINS
(Tonnes)

Period	Plastics and synthetic resins					
	For moulding, extrusion, laminating, calendaring, etc.					
	Plasticisers (407.02-08)	Phenolic (403.52)	Polyesters (403.62)	Polyethylene (403.63)	Ureas and melamines (403.82)	Other(c)
1977-78	20,258	7,626	18,627	168,021	3,317	196,201
1978-79	19,739	7,601	22,221	160,300	4,216	234,640
1979-80	21,394	10,161	19,432	178,267	4,792	298,330
1979—						
December	n.p.	636	1,736	15,269	259	23,973
1980—						
January	n.p.	485	834	13,957	118	25,618
February	n.p.	1,101	1,957	17,356	420	25,186
March	n.p.	924	1,543	17,251	506	25,663
April	n.p.	1,113	1,453	16,097	482	24,918
May	n.p.	951	1,873	16,822	555	24,658
June	n.p.	831	1,223	16,164	513	21,157
July	n.p.	652	1,737	13,429	633	21,187
August	n.p.	536	1,605	16,330	434	20,455
September	n.p.	500	1,628	17,004	528	20,396
October	n.p.	769	2,101	16,842	510	13,575
November	n.p.	835	2,221	13,712	537	14,837
December	n.p.	703	2,089	13,835	388	16,514
1981—						
January	n.p.	464	761	19,246	193	18,765
1979-80 : July to Jan.	n.p.	5,241	11,383	94,577	2,316	176,748
1980-81 : July to Jan.	n.p.	4,459	12,142	110,398	3,223	125,729

(a) See paragraph 6, explanatory notes. (b) Code nos 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 nos 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) (404.32)	Polyvinyl acetate (a) (404.88)	Resin 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— 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	942	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	920	3,137	221	676	340	53	116	88	426	5,977
August	624	2,709	181	381	197	57	155	41	467	4,812
September	844	3,001	177	571	248	59	127	134	297	5,458
October	957	3,524	196	745	233	n.p.	179	n.p.	576	6,560
November	855	3,666	288	603	311	n.p.	144	n.p.	559	6,584
December	888	3,099	195	703	265	n.p.	198	n.p.	731	6,182
1981—										
January	557	2,051	126	203	141	n.p.	78	n.p.	318	3,566
1979-80 : July to Jan.	6,661	21,765	1,449	3,941	1,570	n.p.	1,028	n.p.	3,383	40,736
1980-81 : July to Jan.	5,645	21,187	1,384	3,882	1,735	424	997	511	3,374	39,139

PLASTICS AND SYNTHETIC RESINS—continued
(Tonnes)

Period	<i>For bonding and adhesives(a)</i>					<i>For other purposes(b)</i>			<i>Total for all purposes</i>
	Phenolics (404.34)	Polyvinyl acetate (404.90)	Ureas and melamines (404.76)	Other (404.96)	Total	Vinyls (404.84)	Other (c)	Total	
1977-78	5,890	4,695	28,713	1,825	41,123	2,982	32,044	35,026	521,992
1978-79	5,583	6,063	32,647	1,748	46,041	3,469	76,992	80,461	613,916
1979-80	6,181	7,200	69,336	2,022	84,739	4,832	91,813	96,645	761,943
1979— December	328	409	4,725	141	5,603	n.p.	n.p.	3,340	55,979
1980—									
January	385	261	3,203	64	3,913	n.p.	n.p.	9,806	58,338
February	528	433	5,244	222	6,427	n.p.	n.p.	8,358	66,946
March	542	498	7,763	191	8,994	n.p.	n.p.	5,796	67,143
April	476	782	6,066	133	7,457	n.p.	n.p.	4,584	61,568
May	565	636	6,259	158	7,618	n.p.	n.p.	9,725	68,002
June	380	402	7,574	138	8,494	n.p.	n.p.	7,585	60,937
July	496	310	3,438	231	4,475	n.p.	n.p.	9,848	57,938
August	527	538	3,217	168	4,450	n.p.	n.p.	9,496	58,118
September	423	402	4,119	155	5,099	n.p.	n.p.	6,670	57,283
October	520	471	2,737	222	3,950	n.p.	n.p.	7,870	52,177
November	520	306	2,914	221	3,961	n.p.	n.p.	6,578	49,265
December	384	431	2,664	129	3,608	n.p.	n.p.	2,945	46,264
1981—									
January	308	228	825	122	1,483	n.p.	n.p.	6,039	50,517
1979-80 : July to Jan.	3,690	4,449	36,430	1,180	45,749	n.p.	n.p.	60,597	437,347
1980-81 : July to Jan.	3,178	2,686	19,914	1,248	27,026	n.p.	n.p.	49,446	371,562

(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 styrene (code nos 404.36, 404.78, 98).

PAINTS AND OTHER SURFACE COATINGS (* 000 litres)

Period	Architectural and decorative paints, enamels and clear(s)					Industrial paints, enamels and clear (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	Finishing coats(c)	Plastic latex	Other water based		Primers and undercoats	Nitro-cellulose lacquers	Other
	(410.01)	(410.03, 05.07)	(410.11, 13.15)	(410.17)	(410.25)	(410.31, 41)	(410.33, 43.45)	(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	5,422	35,074
1979— December	844	1,822	2,973	165	39.6	728	385	2,607
1980— January	681	1,719	2,511	113	19.5	502	231	1,966
February	852	2,097	3,629	111	35.1	797	508	2,723
March	922	2,276	3,762	205	44.6	950	539	2,903
April	998	2,365	3,752	149	50.8	894	406	2,732
May	900	2,292	3,457	149	46.0	946	405	2,927
June	753	1,838	2,771	112	42.3	811	386	2,160
July	900	2,108	3,626	194	48.0	924	506	3,048
August	700	1,947	3,108	212	43.2	754	400	2,540
September	850	1,993	3,636	175	49.6	905	510	2,890
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— January	670	1,759	2,892	191	27.3	541	225	1,670
1979-80 : July to Jan.	6,503	16,734	24,644	1,270	334	6,607	3,179	21,630
1980-81 : July to Jan.	5,864	14,900	25,313	1,543	284	6,081	3,155	19,326

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

Period	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d) (410.57)	Marine coating(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	13,618
1979-80	4,117	2,490	1,561	833	11,905	9,772	13,819
1979— 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	126	64.5	978	746	1,029
September	344	168	100	63.7	951	800	1,099
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
1980— January	251	148	116	26.2	739	475	784
1979-80 : July to Jan.	2,471	1,241	874	371	7,174	5,717	8,352
1980-81 : July to Jan.	2,463	1,496	904	458	7,097	5,398	7,517

(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 semi-pigmented, Madison and Crenote 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—JANUARY 1981
(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	278,684	147,615	189,152	18,395	35,760	669,606
Finishing coats, pigmented—							
410.03	Full gloss	536,367	269,008	211,426	50,278	44,977	1,112,056
410.05	Other than full gloss	212,707	127,540	41,694	12,307	31,728	425,976
410.07	Finishing coats, clears	138,132	71,696	n.p.	1,209	n.p.	220,912
Water thinned—							
Plastic latex—							
410.11	Primers and undercoats	101,437	47,916	41,926	7,552	3,925	202,756
Finishing coats—							
410.13	Flat	739,579	397,015	184,565	121,284	184,513	1,626,956
410.15	Other than flat (satin, semi-gloss, gloss)	363,124	318,694	256,452	38,276	85,846	1,062,392
410.17	Other water based	66,481	99,046	n.p.	5,624	n.p.	190,821
410.25	Tinting colours, all types, packed for sale or transfer out	14,731	3,205	n.p.	n.p.	—	27,342
Industrial paints, enamels and clears (includes lacquers and water thinned industrial products)—							
Automotive—							
410.31	Primers and undercoats	30,664	107,520	n.p.	n.p.	n.p.	196,835
Finishing coats—							
410.33	Nitro-cellulose lacquers	5,867	n.p.	—	n.p.	n.p.	15,077
410.37	Other	112,493	208,135	n.p.	n.p.	n.p.	437,774
Other industrial—							
410.41	Primers and undercoats	131,258	118,539	65,808	6,494	22,044	344,143
Finishing coats—							
Nitro-cellulose lacquers—							
410.43	Colours	91,248	28,787	n.p.	n.p.	n.p.	167,875
410.45	Clears	27,484	10,595	n.p.	n.p.	n.p.	41,869
Other—							
410.47	Clears	146,457	204,487	n.p.	1,752	n.p.	387,603
410.49	Colours	438,404	183,805	79,340	61,778	81,587	844,914
410.55	Heavy duty coatings	237,577	71,211	n.p.	n.p.	n.p.	452,816
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out (b)	121,843	95,646	31,922	n.p.	n.p.	251,414
410.59	Marine coatings (c)	80,117	n.p.	n.p.	n.p.	n.p.	148,280
410.65	Bituminous paints, not elsewhere included (d)	111,021	2,969	n.p.	n.p.	—	116,369
410.67	Decorative seamless flooring compounds	n.p.	n.p.	n.p.	n.p.	n.p.	8,283
410.69	Water shedding preparations	n.p.	n.p.	7,708	n.p.	n.p.	26,175
410.79	Other paints and coatings not elsewhere included (excludes leather dressings)	96,308	89,883	26,829	n.p.	n.p.	277,940
Thinners—							
410.85	For nitro-cellulose coatings	133,254	127,814	92,741	48,427	72,997	475,233
410.87	For all other coatings	335,845	182,850	125,449	83,891	55,802	783,837

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— 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	8,735	3,828	79,460
March	19,779	8,568	10,121	33,115	9,921	1,174	82,678
April	18,790	7,948	10,290	34,524	9,826	2,070	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	85,16—
August	19,122	7,403	10,665	31,497	10,826	2,622	82,135
September	18,304	9,677	9,947	36,947	9,667	2,409	86,951
October	18,022	6,657	10,952	30,091	8,607	1,492	75,811
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
1979-80 : July to Jan.	127,041	51,199	68,956	211,893	62,525	16,962	538,576
1980-81 : July to Jan.	123,478	55,235	72,442	230,908	61,265	14,853	558,181

(a) Excludes heavy duty coatings. (b) Includes pigmented, Madison and Cresson 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	Paper board(a)						Paper felts (353.01)
	Wood pulp(b)			Other			
	Chemical (341.31-37)	Mechanical (341.39)	Other (341.45)	Box and carton (352.21,23)	Uncoated		
					Box and container (352.13)	Other (352.33)	
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— 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	28,798	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	—
September	15,028	19,650	29,825	10,182	27,508	4,740	—
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	—
1979-80 : July to Jan.	93,290	113,652	182,047	69,112	167,195	37,006	n.p.
1980-81 : July to Jan.	96,074	125,404	184,157	66,730	184,274	29,385	—

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)	Cellulose and plastic (769.17.18)	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— 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
September	n.p.	835	504	577	11	n.p.	447	n.p.	n.p.	59
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.
1979-80 : July to Jan.	n.p.	4,915	2,792	6,884	233	n.p.	2,818	n.p.	n.p.	n.p.
1980-81 : July to Jan.	n.p.	4,414	2,654	5,466	186	n.p.	2,483	1,056	n.p.	n.p.

(a) Paper exceeding 205 grammes per square metre is classified as paper board. (b) Quantities shown represent tonnage dried to production in the establishment and conversion from rolls purchased or transferred in. (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) (805.30)
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	1,483
1979-80	28,208	895	1,625	1,080	31,808	10,552	5,624	990
1979— 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	142	131	3,173	1,178	330	134
August	2,731	92	97	49	2,969	786	413	116
September	2,570	105	93	92	2,860	635	433	107
October	1,885	92	136	99	2,212	1,091	447	123
November	2,563	194	120	32	2,909	973	196	145
December	2,411	107	178	81	2,777	833	500	143
1981— January	993	74	116	30	1,213	660	165	114
1979-80 : July to Jan.	15,923	467	898	604	17,892	6,440	n.p.	570
1980-81 : July to Jan.	15,976	741	882	514	18,113	6,156	2,484	882

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

Period	For other purposes—non-abrasive—continued					Abrasive cleansers and scourers			
	Liquid				Soft (incl. paste) (805.34,56)	Total	Small pack(s)		
	Disinfectant type(e)		Non-disinfectant type				Granules and powder (805.38)	Paste (805.40)	Large pack(s) (805.60)
	Small pack(s) (805.30)	Large pack(s) (805.32)	Small pack(s) (805.32)	Large pack(s) (805.34)					
1977-78	802	2,465	696	2,813	590	26,187	468	359	706
1978-79	567	2,145	571	2,783	947	24,711	415	365	467
1979-80	641	1,931	582	2,645	776	23,741	459	404	489
1979— 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	38	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	93	147	59	186	63	2,190	19	30	36
August	68	140	43	170	65	1,801	30	40	33
September	64	152	48	166	67	1,672	42	36	29
October	65	125	60	179	80	2,170	19	26	44
November	78	113	56	167	54	1,782	25	32	46
December	77	141	54	161	33	1,942	22	14	38
1980— January	58	107	61	142	59	1,366	30	27	36
1979-80 : July to Jan.	386	1,163	320	1,593	443	14,587	255	247	288
1980-81 : July to Jan.	503	925	381	1,711	421	12,923	187	205	262

(a) Includes solid shaving soap. (b) Includes woodscouring 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									Total	
	Abrasive cleaners and scourers			Non-abrasive							
				For personal toilet use			For other purposes				
							Liquid paste and cream		Other		
							Small packs (806.18, 20.22)	Large packs (806.36)	Solid and powder (806.02)		Toilet (806.04)
1977-78	10,038	935	1,707	9,226	53,060	24,952	81,911	181,868			
1978-79	8,634	1,040	1,468	9,538	54,444	29,184	80,819	185,127			
1979-80	9,383	1,185	1,583	10,009	61,213	32,414	86,450	202,237			
1979— December	666	72	101	657	3,348	2,467	5,256	12,567			
1980—											
January	571	73	119	702	2,927	2,150	4,425	10,967			
February	902	122	104	832	5,831	2,839	6,086	16,716			
March	877	103	130	884	6,241	3,278	9,650	21,163			
April	744	60	121	733	5,071	2,489	6,667	15,885			
May	1,008	89	166	685	5,535	3,087	8,339	18,907			
June	813	115	115	858	5,665	2,589	5,890	16,045			
July	906	89	150	999	6,049	2,526	8,212	19,021			
August	564	84	108	981	5,741	2,720	6,494	16,492			
September	731	101	125	963	5,503	3,197	6,551	17,171			
October	681	96	160	730	6,241	2,383	7,011	17,382			
November	498	70	116	932	5,536	2,666	5,395	15,213			
December	849	102	111	776	5,296	3,184	8,172	18,490			
1981— January	291	84	47	573	3,477	1,604	4,907	10,983			
1979-80 : July to Jan.	5,039	696	949	6,017	32,870	18,132	49,818	113,521			
1980-81 : July to Jan.	4,610	626	817	5,954	37,843	18,280	46,742	114,872			

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) film (424.33.51)		Polyethylene		Other polymers on knitted and woven textile materials (424.61)
	Alkaline (806.40)	Emulsion (806.44)	Other (incl. acid cleansers) (806.25, 42.45)		Expanded (424.30)	Other (424.32)	On paper or paperboard (424.33.51)	On regener- ated cellulose film (424.42)	On other substrates (424.43-47)		
— tonnes —				— '000 square metres —							
1977-78	20,880	6,621	7,523	216,683	4,699	7,601	2,470	11,437	34,764	4,937	
1978-79	21,741	6,214	7,389	220,471	4,984	7,944	1,206	7,671	37,812	4,643	
1979-80	21,468	6,999	7,931	238,635	4,250	6,248	n.p.	4,751	54,439	5,255	
1979— December	1,644	528	576	15,315	278	334	n.p.	n.p.	6,904	388	
1980—											
January	1,451	369	518	13,305	108	211	n.p.	n.p.	4,788	152	
February	1,938	686	768	20,108	367	545	n.p.	n.p.	7,022	442	
March	1,872	539	747	24,321	375	426	n.p.	n.p.	5,614	529	
April	1,652	630	707	18,874	306	431	n.p.	n.p.	5,842	309	
May	1,844	677	600	22,028	436	546	n.p.	n.p.	7,692	433	
June	1,446	494	624	18,609	282	321	n.p.	n.p.	7,159	297	
July	1,934	496	616	22,067	392	604	n.p.	n.p.	7,222	368	
August	1,881	559	529	19,661	397	457	n.p.	n.p.	4,116	437	
September	1,892	605	544	20,212	308	440	n.p.	n.p.	6,754	462	
October	2,275	564	603	20,744	458	544	n.p.	n.p.	9,413	644	
November	1,739	523	542	18,017	294	380	n.p.	n.p.	7,322	500	
December	2,022	528	590	21,630	394	470	n.p.	n.p.	6,701	418	
1981—											
January	1,793	397	575	13,748	123	167	n.p.	n.p.	10,993	225	
1979-80 : July to Jan.	12,716	3,973	4,485	134,695	2,485	3,979	n.p.	n.p.	51,111	3,245	
1980-81 : July to Jan.	13,536	3,672	3,999	136,079	2,366	3,062	n.p.	n.p.	51,687	3,050	

(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)			
1977-78	15,742	64,756	2,166	8,225	15,108	105,996
1978-79	16,159	74,063	2,743	8,575	16,080	117,626
1979-80	17,465	85,522	3,515	7,642	17,414	131,557
1979—						
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	6,735	271	648	1,680	10,883
September	1,500	6,929	242	552	1,424	10,646
October	1,761	6,372	293	669	1,814	10,909
November	1,550	6,859	279	730	1,582	10,999
December	1,481	5,941	243	479	1,541	9,684
1981—						
January	885	4,405	187	421	660	6,558
1979-80 : July to Jan.	10,954	48,741	2,050	4,550	10,309	76,603
1980-81 : July to Jan.	10,346	44,396	1,782	4,135	10,367	71,027

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	
1977-78	8,711	74,928	83,639	7,031	15,327	22,357	105,996
1978-79	9,699	83,420	93,119	6,461	18,041	24,501	117,626
1979-80	10,755	98,686	109,442	6,709	15,406	22,115	131,557
1979—							
December	783	6,887	7,671	397	975	1,372	9,043
1980—							
January	475	5,885	6,360	337	904	1,241	7,601
February	875	8,588	9,463	514	1,264	1,718	11,181
March	902	8,937	9,839	524	1,367	1,891	11,731
April	751	7,747	8,498	508	1,215	1,722	10,220
May	726	8,888	9,614	637	1,240	1,878	11,492
June	656	8,204	8,860	416	1,053	1,469	10,329
July	911	8,385	9,296	710	1,341	2,051	11,347
August	923	7,910	8,833	625	1,424	2,050	10,883
September	878	8,036	8,914	622	1,111	1,733	10,646
October	931	7,664	8,595	830	1,484	2,314	10,909
November	862	8,006	8,867	688	1,444	2,132	10,999
December	813	6,871	7,684	667	1,333	2,000	9,684
1981—							
January	602	4,895	5,497	284	778	1,062	6,558
1979-80 : July to Jan.	6,845	56,322	63,167	4,109	9,327	13,436	76,603
1980-81 : July to Jan.	5,920	51,766	57,685	4,426	8,915	13,341	71,027

(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.