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**Plastics, Rubber, Paints
Industrial Chemicals
and Detergents**

November 1990

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MANUFACTURING PRODUCTION, AUSTRALIA

**PLASTICS, RUBBER, PAINTS, DETERGENTS AND
INDUSTRIAL CHEMICALS**

NOVEMBER 1990

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Acting Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 8362.0

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TABLE 1. PLASTICS IN PRIMARY FORMS(a)
(tonnes)

Period	Not mixed or compound(b)					Mixed or compound (b)	Total(d)
	Poly-ethylene (571.13)	Poly-styrene (572.14)	Poly-propylene (575.14)	Polyvinyl acetate (575.98)	Other(c) (576.01)		
1987-88	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	990,115
1988-89	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	986,211
1989-90	214,458	55,446	159,102	14,417	354,745	r26,165	r974,838
1989—						r	r
September	20,581	4,862	14,702	1,207	31,945	1,665	88,563
October	20,130	5,814	15,305	1,470	34,796	2,382	94,461
November	19,364	5,453	14,711	1,663	33,800	2,472	89,092
December	18,670	3,921	12,337	998	24,033	2,242	72,013
1990—							
January	16,959	5,355	13,953	620	24,975	2,021	73,888
February	12,895	5,095	10,664	1,412	28,563	2,430	71,851
March	16,405	n.p.	n.p.	1,251	30,441	2,491	77,556
April	20,690	5,007	14,023	1,112	28,222	2,317	83,336
May	21,019	n.p.	13,949	1,060	28,790	2,036	83,803
June	15,619	4,269	12,219	1,060	26,519	2,374	75,903
July	21,456	4,116	r16,497	r1,079	26,824	2,418	85,055
August	19,196	5,466	14,977	1,042	28,518	2,870	83,947
September	r13,439	5,265	9,051	964	27,250	2,768	r72,448
October r	20,884	6,188	11,922	1,346	30,592	2,982	87,728
November	12,137	5,628	13,056	1,222	27,902	2,963	73,399
1989-90: July to Nov.	92,201	n.p.	n.p.	6,904	163,202	10,254	436,488
1990-91: July to Nov.	87,112	26,663	65,503	5,653	141,086	14,001	402,577

(a) Primary forms includes liquid, paste, powder, granules, flakes, blocks, irregular shapes, lumps and similar bulk forms. (b) Excludes regrindings scrap. (c) Includes PVC not mixed or compounded. (Australian Standard Commodity Classification item 573.14) (d) Includes PVC not mixed or compounded and regrindings scrap. (Australian Standard Commodity Classification items 573.15, 576.04 and 579.00)

TABLE 2. PLASTIC TUBES, PIPES, HOSES, FILM, SHEETING AND COATED MATERIALS

Period	Flexible plates, sheets, foil and strip of plastic(a)					Tubes, pipes and hoses	
	Polymers of ethylene		Polymers of propylene (582.33)	Other (582.34)	Plastic coated textile materials (657.32)	High density polyethylene (581.82)	Rigid PVC(c) (581.22)
	Polymers of vinyl chloride (582.32)	Low density(b) (582.31)	High density (582.38)				
	tonnes	tonnes	tonnes	tonnes	'000 sq. m	tonnes	tonnes
1989-90	12,993	r115,075	r25,809	18,737	10,350	29,681	r88,671
1989—							r
September	1,157	9,980	2,381	1,734	884	2,711	8,362
October	1,093	r10,411	r2,410	1,840	932	2,352	7,960
November	1,315	r10,232	r2,126	1,853	1,011	2,089	8,904
December	1,098	8,086	1,853	1,241	943	2,340	6,681
1990—							r
January	499	6,849	1,860	880	521	1,792	3,970
February	1,223	9,707	2,128	1,357	882	2,417	7,662
March	1,422	10,194	2,371	1,621	1,039	3,028	8,438
April	640	9,075	2,053	1,573	751	2,188	5,222
May	1,115	10,144	2,361	1,633	799	3,163	8,498
June	1,182	9,598	1,920	1,397	911	2,759	6,951
July	1,174	9,664	1,963	1,753	649	2,381	7,667
August	1,339	r10,297	r2,185	1,673	977	2,347	7,255
September	1,411	r8,908	r2,257	1,648	863	2,843	7,464
October	1,218	r9,803	r2,167	1,793	722	2,657	7,212
November	1,273	10,053	2,331	1,924	946	2,708	8,225
1989-90: July to Nov	5,813	51,423	11,262	9,034	4,503	11,995	41,247
1990-91: July to Nov	6,415	48,725	10,903	8,791	4,157	12,936	37,823

(a) Excludes self-adhesive, floor, wall and ceiling coverings, vulcanized fibre and plastic foam. Also excludes reinforced, laminated or supported with other materials.

(b) Includes linear low density polyethylene. (c) Plasticiser content 1 per cent or less by weight of PVC. Excludes electrical conduit.

TABLE 3. RUBBER PRODUCTS

Period	Pneumatic tyres(a) (625 20, 60, 70)	Camel back for retreading rubber tyres (621 21)	Strip (eg orbis-strip) for retreading tyres (621 22)	Conveyor belts and belting of unhardened vulcanised rubber (629 25)	Tubes, pipes and hoses of unhardened vulcanised rubber(b) (621 41, 45, 49)
	'000	tonnes	tonnes	tonnes	'000 metres
1989-90	n.p.	7,286	n.a.	n.p.	8,360
1989—					
September qtr	n.p.	1,947	n.a.	n.p.	2,192
December qtr	n.p.	2,038	n.a.	n.p.	n.p.
1990—					
March qtr	n.p.	1,432	n.a.	n.p.	2,185
June qtr	n.p.	1,869	n.a.	n.p.	n.p.
September qtr	n.p.	1,584	n.p.	n.p.	1,735

(a) Includes new tyres for buses, lorries, motor cars, motor cycles, tractors, bicycles, aircraft etc. (b) Includes with fittings (eg joints, elbows, flanges).

TABLE 4. PAINTS AND OTHER SURFACE COATINGS
('000 litres)

Period	Architectural and decorative paints, enamels and clear(a)						
	Solvent thinned				Water thinned		
	Finishing coats				Plastic latex		
	Primers and undercoats (533 65)	Pigmented		Clears (533 68)	Primers and undercoats (533 69)	Finishing coats	
		Full gloss (533 66)	Other (533 67)			Flat (533 71)	Other (533 72)
1987-88	6,170	12,227	4,796	3,701	6,264	31,889	26,347
1988-89	6,024	11,285	4,947	3,861	6,676	35,515	31,812
1989-90	5,724	11,567	4,350	3,713	7,109	32,298	33,134
1989—							
September	583	1,118	395	366	638	3,143	3,061
October	466	981	440	441	753	3,178	3,158
November	660	1,288	489	441	689	3,292	3,340
December	491	1,072	330	304	499	3,053	2,912
1990—							
January	360	759	281	201	529	2,244	2,361
February	443	781	236	274	584	2,688	2,648
March	521	1,160	372	272	651	2,744	3,116
April	392	775	397	202	361	1,968	2,277
May	454	901	290	289	785	2,691	2,620
June	476	869	386	311	510	2,341	2,579
July	373	884	381	292	477	2,318	2,496
August	503	1,049	379	283	676	2,502	3,017
September	412	909	347	271	550	2,264	2,631
October	513	957	410	356	662	2,749	3,482
November	527	1,062	403	321	732	3,496	3,544
1989-90: July to Nov.	2,588	5,249	2,059	1,360	3,191	14,568	14,621
1990-91: July to Nov.	2,328	4,861	1,920	1,523	3,187	13,729	15,170

For footnotes see end of table

TABLE 4. PAINTS AND OTHER SURFACE COATINGS—continued
(⁰⁰⁰ litres)

Period	Industrial paints, enamels and clears(b)							
	Automotive				Other industrial			
	Finishing coats			Primers and undercoats (533.78)	Finishing coats			Other
	Primers and undercoats (533.74)	Nitro-cellulose lacquers (533.75)	Other (533.76)		Clears (533.79)	Colours (533.81)	Clears (533.82)	Colours (533.83)
1987-88	4,908	547	10,037	9,040	3,199	1,233	8,753	22,436
1988-89	5,038	575	10,991	10,293	3,522	1,155	8,583	25,640
1989-90	5,750	601	11,056	10,046	3,821	1,011	8,046	24,760
1989—								
September	554	52	990	1,007	351	113	678	2,414
October	568	54	932	1,118	424	106	694	2,563
November	461	58	919	1,028	390	103	713	2,538
December	456	38	935	881	293	92	679	1,927
1990—								
January	291	25	552	656	165	45	589	1,516
February	400	62	784	819	330	85	698	1,804
March	636	69	1,100	794	350	102	755	2,060
April	342	41	776	516	270	53	664	1,602
May	532	63	1,255	813	341	84	749	2,288
June	617	45	1,029	733	285	78	668	1,754
July	440	68	819	791	307	78	586	1,860
August	573	53	920	763	357	60	662	1,991
September	348	44	722	814	260	169	617	1,858
October	526	30	995	845	397	69	697	2,368
November	455	50	985	937	264	71	694	2,043
1989-90: July to Nov.	2,476	258	4,625	4,834	1,787	472	3,245	11,808
1990-91: July to Nov.	2,342	245	4,441	4,150	1,585	346	3,256	9,820

TABLE 4. PAINTS AND OTHER SURFACE COATINGS—continued
(⁰⁰⁰ litres)

Period	Heavy duty coatings(c) (533.77)	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d) (533.84)	Marine coatings (e) (533.85)	Thinners	
				For nitro-cellulose coatings (533.56)	For all other coatings (533.57)
1987-88	9,137	2,342	2,076	8,751	18,162
1988-89	10,994	2,448	2,092	8,641	18,312
1989-90	12,346	2,160	2,022	7,637	20,958
1989—					
September	1,157	221	150	782	1,909
October	976	264	213	753	1,864
November	1,155	221	186	738	1,992
December	1,174	203	156	558	1,620
1990—					
January	852	140	154	394	1,214
February	920	200	167	638	1,651
March	1,106	161	173	824	2,291
April	815	120	169	488	1,763
May	1,169	139	188	655	2,053
June	1,044	125	157	597	1,676
July	969	135	189	598	1,581
August	1,133	142	158	635	1,913
September	1,035	142	148	627	1,600
October	1,393	179	148	749	2,005
November	1,206	189	159	603	1,850
1989-90: July to Nov.	5,266	1,071	857	3,483	8,688
1990-91: July to Nov.	5,736	787	802	3,212	8,949

(a) Includes all paints and coatings for use on buildings and structures. Excludes heavy duty coatings. (b) Includes lacquers and water thinned industrial products. (c) Includes specialty coatings specifically designed for the protection of interiors and exteriors of buildings, plant and equipment etc. (d) Includes anti-pigmented, Madison and Creosote types. (e) Includes primers and undercoats, underwater compositions, boat-topping, deck paints and marine varnishes. Excludes superstructure paints which are included with architectural and decorative paints.

TABLE 5. PAINTS AND OTHER SURFACE COATINGS: STATES—NOVEMBER 1990
(⁰⁰⁰ litres)

Code No.	Item	NSW	Vic.	Other States	Australia
	Architectural and decorative paints, enamels and clears(a)—				
	Solvent thinned—				
533.65	Primers and undercoats	157	88	282	527
	Finishing coats, pigmented—				
533.66	Full gloss	261	121	680	1,062
533.67	Other than full gloss	118	93	192	403
533.68	Finishing coats, clears	189	90	41	321
	Water thinned—				
	Plastic latex—				
533.69	Primers and undercoats	450	112	169	732
	Finishing coats—				
533.71	Flat	2,079	309	1,108	3,496
533.72	Other than flat (satin, semi-gloss, gloss)	2,089	505	950	3,544
533.73	Other water based	332	77	127	536
	Industrial paints, enamels and clears(b)—				
	Automotive—				
533.74	Primers and undercoats	38	330	87	455
	Finishing coats—				
533.75	Nitro-cellulose lacquers	39	n.p.	n.p.	50
533.76	Other	n.p.	n.p.	n.p.	985
	Other industrial—				
533.78	Primers and undercoats	472	282	182	937
	Finishing coats—				
	Nitro-cellulose lacquers—				
533.79	Clears	145	55	64	264
533.81	Colours	41	17	12	71
	Other—				
533.82	Clears	194	467	33	694
533.83	Colours	887	959	197	2,043
533.77	Heavy duty coatings(c)	230	n.p.	n.p.	1,206
533.84	Wood stains (oil, spirit, etc.) packed for sale or transfer out(d)	86	n.p.	n.p.	189
533.85	Marine coatings(e)	n.p.	n.p.	146	159
	Thinners—				
533.56	For nitro-cellulose coatings	274	107	222	603
533.57	For all other coatings	699	738	413	1,850

(a) Includes all paints and coatings for use on buildings and structures. Excludes heavy duty coatings. (b) Includes lacquers and water thinned industrial products.
(c) Includes specialty coatings specifically designed for the protection of interior and exteriors of buildings, plant and equipment etc. (d) Includes part-pigmented, Madison and Crocote types. (e) Includes primers and undercoats, underwater compositions, boat-stopping, deck paints and marine varnishes. Excludes superstructure paints which are included with architectural and decorative paints.

TABLE 6. GASES

Period	Acetylene gas (511.15)	Carbon dioxide carbon monoxide and nitrous oxide(a) (522.73)	Hydrogen, rare gases, nitrogen and oxygen (522.21)
	'000 cu.m.	'000 tonnes	'000 tonnes
1989-90	2,654	74	n.p.
1989—			
September qtr	764	17	n.p.
December qtr	615	16	n.p.
1990—			
March qtr	603	20	n.p.
June qtr	672	21	n.p.
September qtr	719	20	n.p.

(a) Excludes dry ice.

TABLE 7. INDUSTRIAL CHEMICALS

Period	Acids (in terms of 100% acid)				Other mineral or Chemical fertilisers		
	Hydrochloric; Chlorosulphuric (522.31)	Sulphuric; Oleum		Ammonium sulphate (562.13)	Superphosphate(c) (562.23,24,25)	Phosphatic (562.26)	Potassic (562.30)
		Original (522.32)	Seasonally Adjusted(a)				
	tonnes	'000 tonnes	'000 tonnes	'000 tonnes	tonnes	tonnes	tonnes
1987-88	n.a.	1,818	..	..	179,211	n.a.	n.a.
1988-89	n.a.	1,904	..	..	164,776	n.a.	n.a.
1989-90	60,469	1,464	..	..	214,059	2,658,863	n.p.
1989—							
September	n.p.	98	117	118	14,369	176,699	n.p.
October	n.p.	107	120	118	23,301	123,257	n.p.
November	3,073	117	119	121	21,248	233,325	n.p.
December	4,920	138	122	125	20,892	257,414	n.p.
1990—							
January	5,615	145	131	128	20,027	250,060	n.p.
February	5,051	144	138	128	10,691	293,349	n.p.
March	n.p.	146	126	127	15,328	359,319	n.p.
April	4,858	132	119	125	13,490	323,539	n.p.
May	4,938	125	118	123	18,071	258,459	n.p.
June	n.p.	113	115	119	20,949	162,077	n.p.
July	3,842	104	127	113	15,604	119,282	n.p.
August	5,745	96	112	105	21,685	90,224	n.p.
September	5,185	72	84	96	12,630	83,105	n.p.
October	4,830	72	84	87	22,744	94,670	n.p.
November	4,833	74	75	79	23,115	173,248	n.p.
1989-90: July to Nov.	n.p.	521	..	..	94,611	754,646	n.p.
1990-91: July to Nov.	24,435	418	..	..	95,778	560,529	n.p.

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 8, Explanatory Notes. (c) Double and triple superphosphates expressed in terms of single phosphate i.e. 9% P equivalent.

TABLE 8. ORGANIC SURFACE-ACTIVE AGENTS (a)
(tonnes)

Period	Anionic(b) (554.24)	Cationic(c) (554.25)	Other(d) (554.26)
1989-90	26,868	8,446	7,122
1989—			
September	2,597	626	445
October	2,227	916	555
November	2,183	721	542
December	2,287	518	548
1990—			
January	2,039	638	470
February	1,985	620	420
March	2,442	721	505
April	1,873	652	611
May	2,114	917	1,047
June	2,622	608	916
July	2,041	798	1,042
August	1,849	777	419
September	2,176	568	453
October	1,823	506	573
November	1,879	535	567
1989-90: July to Nov.	11,505	3,772	2,605
1990-91: July to Nov.	9,768	3,184	3,054

(a) Organic surface-active agents are capable of absorption at an interface and in that state display a number of physico-chemical properties responsible for surface activity (e.g. reduction of surface tension, foaming, emulsifying and wetting). Excludes soap. (b) Organic surface-active agents which ionise in aqueous solution to produce negatively charged organic ions responsible for surface activity (e.g. sulphates and sulphonates of fats, vegetable oils or resin acids). (c) Organic surface-active agents which ionise in aqueous solution to produce positively charged organic ions responsible for surface activity (e.g. salts of fatty amines). (d) Includes non-ionic and ampholytic agents.

TABLE 9. DETERGENTS AND SOAP

Period	Soaps in bars, cakes, moulded pieces or shapes for personal use(a) (554.12)	Shampoo (553.31)	Scouring preparations(b) (554.39)	Surface-active washing or cleaning preparations					
				Fabric washing		Dish washing preparations		Soaking, rinsing or bleaching preparations	
				Liquid (554.28)	Other(c) (554.29)	Liquid (554.51)	Other(c) (554.52)	preparations (554.53)	Other(d) (554.54)
				tonnes	tonnes	tonnes	'000 litres	tonnes	'000 litres
1987-88	30,330	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1988-89	26,764	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1989-90	33,461	19,926	12,135	50,868	108,218	29,820	4,099	23,790	36,136
1989—									
September	3,232	1,759	1,028	5,277	9,726	3,385	361	2,209	3,640
October	2,867	1,786	1,250	5,641	10,892	2,601	502	2,283	3,579
November	2,769	1,615	598	4,999	9,487	2,862	348	2,353	3,797
December	2,402	1,258	775	4,338	7,348	1,876	278	2,002	2,249
1990—									
January	1,373	1,342	771	1,877	6,190	1,394	167	2,049	1,908
February	2,622	1,558	1,301	3,516	8,124	2,154	261	2,212	3,179
March	3,265	2,035	1,297	3,412	10,495	2,345	399	2,451	2,890
April	3,172	1,578	841	2,923	6,609	2,645	349	1,352	2,602
May	2,870	1,873	1,271	3,975	9,376	2,722	527	2,149	2,854
June	2,869	1,747	1,089	3,678	10,133	1,883	258	1,211	3,179
July	2,225	1,627	1,077	3,613	10,760	1,443	238	1,569	3,020
August	2,749	1,394	1,028	3,329	10,612	2,377	263	1,308	2,436
September	2,411	1,453	1,086	3,371	7,992	2,333	341	1,197	2,850
October	3,167	1,723	1,309	3,826	9,095	1,997	389	1,452	3,103
November	3,184	1,648	961	3,998	10,771	2,275	454	1,546	4,030
1989-90: July to Nov.	14,890	8,535	4,788	27,148	49,944	14,799	1,860	10,362	17,276
1990-91: July to Nov.	13,736	7,845	5,461	18,137	49,230	10,425	1,685	7,072	15,479

(a) Includes abrasive and medicated. (b) Includes abrasive soap not in bars, cakes, moulded pieces or shapes. (c) For example powders. (d) Includes surface-active preparations for use in the processing or preparation of minerals, hides and skins, paper, dyed textiles, textile fibres, pharmaceutical and cosmetic products.

EXPLANATORY NOTES

Introduction

This publication is one of a series of ten containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 9.

Classification

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Most items are identified by the commodity codes used in Australian Standard Commodity Classification (ASCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. In cases where data are derived from sources other than ABS collections no commodity code is shown and the source of the data is acknowledged in a footnote.

Scope and coverage

3. Manufacturing commodity statistics collected by the ABS exclude details relating to single establishment manufacturing enterprises with fewer than four persons employed 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.

4. 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 and trend estimates

5. This publication contains seasonally adjusted statistics of several items. In the seasonal adjustment account had been taken not only of normal seasonal factors but also, where appropriate, of 'working-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. However, care should be exercised in interpreting the figures for those months in which Christmas/New Year and Easter holidays fall as some manufacturers vary holiday shutdowns in the light of prevailing demand for their products. Details of the methods used in seasonally adjusting these and other series are available on request.

6. The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson weighted moving average to the seasonally adjusted series.

7. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally subsequent revisions become smaller and after 3 months have little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

8. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series — Estimates of 'Trend'* (1316.0) and *Time Series Decomposition — An Overview* (1317.0) for more detailed information on smoothing of seasonally adjusted time series data.

Related publications

9. Other ABS publications which may be of interest are:

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10. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, 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.

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