



September 1988
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**PRODUCTION BULLETIN NO. 6: CHEMICALS AND BY-PRODUCTS, AUSTRALIA,
 SEPTEMBER 1988**

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TABLE 1. PLASTICS FILM, SHEETING AND COATED MATERIALS

Unsupported plastics film, foil and sheeting— by polymer type(a)						Plastic coated textile materials(b)			
Period	Vinyl chloride incl. co-polymers (423.08)	Polyethylene		Other (423.38)	Vinyl chloride (424.31)				
		Low density(c) (423.15)	High density(c) (423.25)						
		—tonnes—							
		'000 m ²							
1985-86	15,095	(d)	(d)	27,542	8,744				
1986-87	15,768	108,714	19,320	30,463	8,951				
1987-88	15,611	114,585	23,580	33,227	8,823				
1987—									
July	1,477	9,534	1,779	2,781	907				
August	1,291	9,494	1,782	2,994	788				
September	1,371	10,130	1,835	3,089	683				
October	1,521	9,533	1,930	3,601	825				
November	1,494	10,156	2,069	2,740	587				
December	1,339	8,685	1,776	2,276	649				
1988—									
January	846	6,040	1,692	1,786	263				
February	1,446	10,396	2,539	3,026	935				
March	1,232	10,496	2,139	2,645	923				
April	900	9,115	1,994	2,479	565				
May	1,343	10,573	2,132	3,025	765				
June	1,351	10,433	1,913	2,784	932				
July	1,122	9,841	1,869	2,882	943				
August	922	10,159	2,056	3,131	956				
September	1,668	9,955	2,113	2,904	994				
1987-88: July to Sept.	4,139	29,158	5,396	8,864	2,378				
1988-89: July to Sept.	3,712	29,955	6,038	8,918	2,893				

(a) Rigid and flexible (includes lay flat tubing)-not profile. Includes film or sheet used in further production in the same establishment. (b) Area of completion of final coating by any method including laminating on continuous supporting materials. Includes production even if subsequently used in the same establishment for further processing. Excludes coating for adhesive purposes in the production of laminates. (c) Not collected separately prior to July 1986. High density classified as having a specific gravity of 0.94 and above. (d) Commodity codes 423.15, 25 were collected in combination in 1985-86. Production was 119,750 tonnes.

TABLE 2. PLASTICS AND SYNTHETIC RESINS(a)
(tonnes)

Period	For protective coatings, paints, etc.								Total
	Acrylics (404.01)	Alkyds (404.02)	Phenolics (404.32)	Polyvinyl acetate (404.88)	Rosin esters (404.48)	Ureas and melamines (404.74)	Polyesters and styrenes (404.40, 40.62)	Other (404.94)	
1985-86	16,032	18,815	1,172	6,218	1,098	932	3,676	6,546	54,489
1986-87	15,953	14,781	750	7,425	917	1,016	3,771	7,778	52,391
1987-88	18,710	15,564	684	8,507	958	1,132	n.p.	n.p.	59,343
1987—									
June	1,333	1,109	82	498	122	76	288	461	3,969
July	1,424	1,165	52	630	74	101	468	685	4,599
August	1,323	1,151	42	505	70	107	478	617	4,293
September	1,486	1,492	83	824	109	103	n.p.	n.p.	5,329
October	1,711	1,372	90	894	141	120	n.p.	n.p.	5,331
November	1,952	1,512	55	752	90	76	n.p.	n.p.	5,651
December	1,621	1,148	49	736	66	72	n.p.	n.p.	4,743
1988—									
January	1,030	686	15	291	29	45	n.p.	n.p.	2,900
February	1,637	1,196	26	968	23	91	n.p.	n.p.	4,930
March	1,928	1,635	81	885	122	119	n.p.	n.p.	6,170
April	1,446	1,101	62	519	87	72	n.p.	n.p.	4,220
May	1,630	1,486	75	774	99	91	n.p.	n.p.	5,228
June	1,522	1,620	54	729	48	135	n.p.	n.p.	5,549
July	1,432	1,264	43	692	92	68	n.p.	n.p.	4,753
August	1,994	1,263	25	713	41	102	n.p.	n.p.	5,301
September	1,651	1,365	49	791	83	59	n.p.	n.p.	5,255
1987-88: July to Sept.	4,233	3,808	177	1,959	253	311	n.p.	n.p.	14,221
1988-89: July to Sept.	5,077	3,892	117	2,196	216	229	n.p.	n.p.	15,309

(a) Liquid resin or emulsion form are shown in terms of dry weight of resin content.

TABLE 2. PLASTICS AND SYNTHETIC RESINS(a)—continued
(tonnes)

Period	For moulding, extrusion, laminating, calendering, etc.					For bonding and adhesives		Total plastics and synthetic resins
	Phenolic (403.52)	Polyesters (403.62)	Polyethylene (403.65)	Polypropylene (403.74)	Other (b)(c)	Total	Polyvinyl acetate (404.90)	Other(d)
1985-86	7,304	25,961	206,488	155,980	267,730	663,463	5,902	161,511
1986-87	7,135	24,261	215,881	128,486	275,357	651,120	5,685	195,477
1987-88	7,652	25,589	230,924	152,178	299,296	715,639	5,215	209,961
1987—								
July	698	2,663	19,611	11,609	26,973	61,554	541	19,015
August	709	1,640	20,113	12,953	26,514	61,929	428	18,202
September	752	2,004	19,418	12,638	25,850	60,662	382	18,297
October	651	2,145	17,765	10,333	26,491	57,385	444	16,387
November	685	2,535	17,999	12,470	24,492	58,181	449	18,510
December	580	2,016	20,554	13,511	22,664	59,325	432	13,802
1988—								
January	299	1,102	18,112	12,821	17,461	49,795	252	13,399
February	633	2,396	17,944	12,582	25,431	58,986	458	18,970
March	800	2,435	20,829	12,708	26,695	63,467	481	21,499
April	582	1,819	20,067	13,869	24,691	61,028	445	17,108
May	600	2,220	17,986	12,972	25,969	59,747	449	16,911
June	663	2,614	20,526	13,712	26,065	63,580	454	17,861
July	595	2,595	21,689	12,817	27,187	64,809	443	18,015
August	664	2,082	22,248	13,398	24,326	62,718	388	20,381
September	692	2,121	20,296	14,404	24,704	62,217	448	19,679
1987-88: July to Sept.	2,159	6,307	59,142	37,200	79,337	184,145	1,351	55,514
1988-89: July to Sept.	1,951	6,798	63,535	40,619	76,217	189,120	1,279	58,425

(a) Liquid resin or emulsion form are shown in terms of dry weight resin content. (b) Code nos. 403.22,73,82,90,92,94. (c) There has been no production of cellulose and other vinyl resins (403.92) for any of the periods shown. (d) Code nos. 404.34,64,76,96,97.

TABLE 3. PAINTS AND OTHER SURFACE COATINGS
('000 litres)

Period	Architectural and decorative paints, enamels and clears								
	Solvent thinned				Water thinned				
	Primers and undercoats (410.01)	Finishing coats			Clears (410.07)	Primers and undercoats (410.11)	Plastic latex		Other water based (410.17)
		Full gloss (410.03)	other (410.05)	Pigmented			Finishing coats		
							Flat (410.13)	Other (410.15)	
1985-86	6,909	12,336	4,660	3,722	5,264	30,840	22,138	2,916	
1986-87	6,614	11,762	4,819	3,737	5,311	29,010	23,627	4,130	
1987-88	6,279	12,375	4,772	3,697	6,263	31,879	26,354	4,858	
1987—									
July	452	1,114	465	281	530	2,535	2,114	313	
August	514	994	402	350	456	2,563	1,785	307	
September	647	1,128	507	340	563	2,964	2,272	376	
October	585	1,049	429	363	551	3,081	2,609	546	
November	530	1,183	485	425	537	2,875	2,493	396	
December	478	1,070	404	311	548	2,750	2,322	503	
1988—									
January	459	814	245	178	450	2,141	1,866	367	
February	499	920	369	297	538	2,502	2,177	543	
March	574	1,114	405	332	566	3,042	2,598	502	
April	534	845	340	280	450	2,362	1,864	271	
May	522	1,086	342	272	500	2,411	2,127	390	
June	487	857	379	268	575	2,653	2,127	344	
July	420	746	320	325	445	2,262	1,916	371	
August	423	788	438	369	564	2,678	2,420	390	
September	466	881	391	340	448	2,502	2,349	618	
1987-88: July to Sept.	1,613	3,236	1,374	971	1,549	8,062	6,171	996	
1988-89: July to Sept.	1,310	2,415	1,148	1,034	1,457	7,442	6,685	1,378	

TABLE 3. PAINTS AND OTHER SURFACE COATINGS—continued
(⁰⁰⁰ litres)

Period	Industrial paints, enamels and clear(a)							
	Automotive				Other industrial			
	Finishing coats			Primers and undercoats (410.41)	Finishing coats			Other
	Primers and undercoats (410.31)	Nitro-cellulose lacquers (410.33)	Other (410.37)		Primers and undercoats (410.43)	Colours (410.45)	Clears (410.47)	Colours (410.49)
1985-86	4,598	438	10,217	9,025	3,175	1,201	6,522	19,770
1986-87	4,405	459	9,212	7,715	3,009	1,162	7,041	20,160
1987-88	4,908	547	10,037	9,029	3,199	1,234	8,889	22,476
1987—								
July	566	43	890	737	253	105	639	2,067
August	443	46	839	734	239	104	604	1,898
September	467	43	864	700	285	104	835	2,051
October	557	52	1,004	850	286	104	811	2,186
November	401	34	813	749	321	125	814	2,085
December	371	57	732	708	290	108	680	1,673
1988—								
January	174	9	414	422	115	44	543	1,057
February	366	52	792	764	267	109	839	1,843
March	429	64	934	919	272	105	854	2,106
April	353	41	791	826	260	99	783	1,642
May	452	50	934	832	298	112	738	2,081
June	r330	54	1,029	r789	312	115	r745	1,788
July	r417	33	847	769	245	r98	654	2,040
August	436	55	955	847	273	135	693	1,998
September	394	58	888	853	277	99	636	1,953
1987-88: July to Sept.	1,476	132	2,593	2,171	777	314	2,078	6,016
1988-89: July to Sept.	1,248	146	2,690	2,469	794	333	1,983	5,991

(a) Includes lacquers and water-thinned industrial products.

TABLE 3. PAINTS AND OTHER SURFACE COATINGS—continued
(⁰⁰⁰ litres)

Period	Heavy duty coatings (410.55)(a)	Wood stains (oil, spirit, etc.) packed for sale or transfer out(b) (410.57)	Marine coatings(c) (410.59)	Thinners	
				For nitro-cellulose coatings (410.85)	For all other coatings (410.87)
1985-86	8,173	3,579	1,608	7,462	17,027
1986-87	8,005	2,816	1,594	8,097	17,520
1987-88	9,095	2,341	1,717	8,767	18,119
1987—					
July	r755	144	136	844	1,698
August	r651	168	137	720	1,350
September	757	214	148	668	1,442
October	854	238	180	852	1,579
November	811	226	179	688	1,532
December	r702	227	172	677	1,446
1988—					
January	564	139	121	487	999
February	769	266	126	734	1,581
March	993	259	147	r908	1,765
April	696	147	122	r579	1,322
May	788	154	131	r886	1,783
June	r754	157	117	723	1,623
July	r736	170	r148	637	1,257
August	r1,057	203	97	848	1,524
September	773	217	142	720	1,530
1987-88: July to Sept.	2,163	526	422	2,233	4,490
1988-89: July to Sept.	2,566	590	387	2,205	4,311

(a) Includes specialty coatings specifically designed for the protection of interiors and exteriors of buildings, plant and equipment etc. Includes chemical resistant systems.

(b) Includes part-pigmented, Madison and Creosote types for all uses including industrial. (c) Excludes super structure paints which are included with architectural and decorative paints.

TABLE 4. PAINTS AND OTHER SURFACE COATINGS: STATES—SEPTEMBER 1988
(⁰⁰⁰ litres)

Code No.	Item	N.S.W.	Vic.	Other States	Australia
	Architectural and decorative paints, enamels and clears—				
	Solvent thinned—				
410.01	Primers and undercoats	118	116	232	466
410.03	Finishing coats, pigmented—				
	Full gloss	232	169	479	881
410.05	Other than full gloss	71	146	173	391
410.07	Finishing coats, clears	235	73	33	340
	Water thinned—				
	Plastic latex—				
410.11	Primers and undercoats	213	112	123	448
	Finishing coats—				
410.13	Flat	1,470	421	611	2,502
410.15	Other than flat (satin, semi-gloss, gloss)	1,317	525	507	2,349
410.17	Other water based	391	131	95	618
	Industrial paints, enamels and clears(a)—				
	Automotive—				
410.31	Primers and undercoats	n.p.	277	n.p.	394
	Finishing coats—				
410.33	Nitro-cellulose lacquers	20	37	1	58
410.37	Other	n.p.	628	n.p.	888
	Other industrial—				
410.41	Primers and undercoats	281	343	229	853
	Finishing coats—				
	Nitro-cellulose lacquers—				
410.43	Clears	166	59	52	277
410.45	Colours	45	38	16	99
	Other—				
410.47	Clears	255	364	16	636
410.49	Colours	959	775	220	1,953
410.55	Heavy duty coatings(b)	196	194	383	773
410.57	Wood stains (oil, spirit, etc.) packed for sale or transfer out(c)	127	84	7	217
410.59	Marine coatings(d)	39	—	103	142
	Thinners—				
410.85	For nitro-cellulose coatings	294	196	230	720
410.87	For all other coatings	627	651	252	1,530

(a) Includes lacquers and water-thinned industrial products. (b) Includes specialty coatings specifically designed for the protection of interiors and exteriors of buildings, plant and equipment etc. Includes chemical resistant systems. (c) Includes part-pigmented, Madison and Crocoote types for all uses including industrial. (d) Excludes superstructure paints which are included with architectural and decorative paints.

TABLE 5. PULP AND PAPERBOARDS
(tonnes)

Period	Wood pulp(a)			Paper boards, all types(b) (352.01)
	Mechanical (341.39)	Other (341.32,36.45)	Total	
1985-86	361,356	516,892	878,248	472,609
1986-87	371,089	534,629	905,718	460,438
1987-88	428,131	580,192	1,008,323	484,132
1987—				
July	33,331	49,443	82,774	27,234
August	31,928	48,923	80,851	35,592
September	35,315	45,850	81,165	39,482
October	33,208	53,482	86,690	46,679
November	31,313	49,958	81,271	39,411
December	27,050	43,523	70,573	36,416
1988—				
January	35,379	48,030	83,409	38,016
February	34,189	48,914	83,103	37,495
March	35,579	47,458	83,037	43,109
April	52,957	55,962	108,919	58,100
May	38,659	49,700	88,359	37,961
June	39,223	38,949	78,172	44,637
July	38,116	48,037	86,153	47,856
August	39,491	48,540	88,031	39,120
September	38,415	56,660	95,075	45,444
1987-88: July to Sept.	100,574	144,216	244,790	102,308
1988-89: July to Sept.	116,022	153,237	269,259	122,420

(a) Quantities shown represent tonnes air-dried. (b) Paper exceeding 205 grammes per square metre is classified as paperboard, includes strawboard.

TABLE 6. PAPER
(tonnes)

Period	Newsprint (351.11)	Printing (351.18)	Writing and duplicating(a) (351.25.29)	Wrapping (incl. Kraft) (351.61)	Tissue and sanitary (351.51)	Other (incl. blotting) (351.65)	Total
1985-86	362,954	172,535	82,495	338,220	125,592	40,886	1,122,686
1986-87	386,320	184,504	77,756	362,439	133,402	65,067	1,209,488
1987-88	401,066	194,191	72,588	n.p.	n.p.	n.p.	1,236,222
1987—							
July	33,933	15,530	5,365	26,085	12,803	5,613	99,329
August	30,936	16,056	6,409	32,246	11,358	7,930	104,935
September	35,900	14,384	6,480	26,184	11,420	4,182	98,550
October	35,755	16,290	5,559	36,006	11,014	5,324	109,948
November	32,739	16,370	6,014	34,723	9,519	4,054	103,419
December	34,225	16,859	5,749	38,722	9,715	4,270	109,540
1988—							
January	34,534	13,709	5,126	32,962	9,024	5,059	100,414
February	31,565	15,249	5,448	27,872	10,334	6,800	97,268
March	33,100	19,275	5,723	31,179	10,618	5,586	105,481
April	32,222	15,107	6,382	n.p.	11,350	n.p.	106,939
May	32,473	18,318	4,592	n.p.	11,880	n.p.	106,617
June	33,684	17,044	9,741	n.p.	n.p.	n.p.	93,782
July	32,912	14,832	n.p.	n.p.	n.p.	6,077	109,810
August	36,526	15,600	n.p.	n.p.	n.p.	4,061	108,183
September	35,915	16,265	n.p.	n.p.	n.p.	4,399	112,963
1987-88: July to Sept.	100,769	45,970	18,254	84,515	35,581	17,725	302,814
1988-89: July to Sept.	105,353	46,697	n.p.	n.p.	n.p.	14,537	330,956

(a) Includes cartridge.

TABLE 7. DETERGENTS
(tonnes)

Period	Synthetic									
	For other purposes									
	For personal toilet use		Non-abrasive				Abrasive cleansers and scourers		Other than synthetic	
	Liquid paste and cream		Powder and granule		Liquid, paste and cream		Small packs(a)		Emulsion cleansers (806.44)	
	Shampoo (806.06)	(806.04)	Small packs(a) (806.14)	Large packs(b) (806.32)	Small packs(a) (806.16)	Large packs(b) (806.34)	(806.20.22)	(806.40)	(806.44)	Solid (805.01)
1985-86	18,341	2,503	82,734	11,242	75,490	40,241	8,033	32,095	7,298	26,199
1986-87	19,514	2,952	89,909	11,606	73,540	49,449	6,803	33,171	6,668	27,361
1987-88	18,027	2,419	93,239	12,735	88,683	48,041	6,143	32,228	6,810	30,369
1987—										
July	1,552	230	9,044	1,140	8,195	4,038	570	2,796	491	2,435
August	1,459	253	8,187	1,055	7,952	4,242	348	2,627	518	3,056
September	1,445	174	6,683	1,076	5,680	4,297	406	2,573	587	2,760
October	1,424	225	10,393	1,243	6,447	3,935	408	2,793	530	2,738
November	1,703	247	9,013	1,105	8,429	4,017	672	2,657	666	2,565
December	1,201	148	5,373	1,290	7,854	4,130	548	2,700	542	1,925
1988—										
January	1,193	202	5,306	490	5,125	2,538	380	2,293	426	943
February	1,541	255	8,325	1,015	8,010	4,073	670	2,784	592	2,314
March	1,671	202	8,072	1,131	8,136	5,460	637	3,008	704	3,056
April	1,604	171	7,080	1,256	7,648	4,139	521	2,720	401	2,537
May	1,693	185	7,890	983	6,963	3,926	491	2,770	598	2,912
June	1,541	127	7,873	951	8,244	4,246	492	2,507	665	3,128
July	r1,521	298	r9,557	1,290	r8,444	r4,524	544	2,404	569	2,939
August	1,879	232	9,001	1,356	8,001	r4,512	546	2,196	515	r2,709
September	1,419	189	8,874	1,662	9,055	4,583	558	2,267	643	2,320
1987-88: July to Sept.	4,456	657	23,914	3,271	21,827	12,577	1,324	7,996	1,596	8,251
1988-89: July to Sept.	4,819	719	27,432	4,308	25,500	13,619	1,648	6,867	1,727	7,968

(a) Containing 3 kg or less. Excludes dairy cleansers regardless of pack size. (b) Containing over 3 kg. Includes dairy cleansers regardless of pack size.

TABLE 8.
SOAP
(tonnes)

TABLE 9. INDUSTRIAL CHEMICALS

Period	Acids (in terms of 100% acid)					Super-phosphate(b) (415.07; 405.25)
	Hydrochloric (401.29)	Nitric (401.37)	Sulphuric		Ammonium sulphate (405.36)	
			Original (401.57)	Seas. adj.(a)		
	—tonnes—		—'000 tonnes—		tonnes	'000 tonnes
1985-86	54,248	192,514	1,788	..	204,909	2,610
1986-87	62,318	203,484	1,678	..	165,397	2,769
1987-88	68,463	203,547	1,816	..	179,211	3,194
1987—						
July	5,162	23,912	107	130	15,041	119
August	5,111	20,451	98	119	14,770	83
September	5,824	23,339	141	160	16,685	189
October	6,330	16,597	147	163	17,423	281
November	5,052	11,937	146	144	19,696	246
December	6,026	16,863	182	162	21,373	301
1988—						
January	5,344	9,910	121	106	11,656	269
February	5,973	11,896	166	161	12,564	295
March	6,656	15,036	184	161	10,365	433
April	6,139	10,808	179	167	12,821	349
May	5,381	21,351	171	159	13,460	355
June	5,465	21,447	174	178	13,357	274
July	5,296	n.p.	138	165	21,474	228
August	3,853	n.p.	150	185	16,537	220
September	5,468	n.p.	146	163	17,456	231
1987-88: July to Sept.	16,097	67,702	346	..	46,496	391
1988-89: July to Sept.	14,617	n.p.	434	..	55,467	679

(a) See paragraph 6, Explanatory Notes. (b) Includes double and triple superphosphates and ammonium phosphate expressed in terms of single phosphate i.e. 22% P₂O₅ equivalent.

EXPLANATORY NOTES

Introduction

1. 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 these publications 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 the commodity codes used in Australian Manufacturing statistics. However, in cases where data are derived from sources other than ABS collections no commodity code is shown. In general, where items are combined they have been 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 1: Introduction Summary Classification and Commodity Keys* (1207.0).

Scope and coverage

4. 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.

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 sulphuric acid. In the seasonal adjustment, account has been taken not only of normal seasonal factors but also 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 this and other series are available on request.

Related publications

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

Production Bulletin No. 1 : 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, Motor Bodies and Trained Vehicles, Australia (8363.0)—issued quarterly

Production Bulletin No. 8 : Miscellaneous Products, Australia (8364.0)—issued monthly

Manufacturing Commodities : Selected Principal Articles Produced, Australia, 1984-85 Preliminary (8365.0)

Manufacturing Commodities : Principal Articles Produced, Australia, 1983-84 and 1984-85 (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
- r revised since last issue

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