



**Australian
Bureau of
Statistics**

Manufacturing Production Australia

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

May 1991

Catalogue No. 8362.0

EMBARGOED UNTIL 11.30 A.M. 30 JULY 1991

MANUFACTURING PRODUCTION, AUSTRALIA
PLASTICS, RUBBER, PAINTS, DETERGENTS AND
INDUSTRIAL CHEMICALS
MAY 1991

IAN CASTLES
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 8362.0

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Printed in Australia by P. J. GRILLS, Commonwealth Printer, Canberra

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INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics, contact Kevin Squair on Canberra (06) 252 5558 or any ABS State office.
- for information about other ABS statistics and services please refer to the back page of this publication.

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

Period	Mixed or compound (b) (576.02)	Not mixed or compound(b)				Other (573.15, 576.01, 576.04, 579.00)	Total
		Poly-ethylene (571.13)	Poly-styrene (572.14)	Poly-propylene (575.14)	Polyvinyl acetate (575.98)		
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	26,078	214,458	55,446	159,102	14,417	505,250	974,751
1990—						r	r
March	2,464	16,405	n.p.	n.p.	1,251	42,520	77,529
April	2,317	20,690	5,007	14,023	1,112	40,187	83,336
May	2,009	21,019	n.p.	13,949	1,060	n.p.	83,776
June	2,362	15,619	4,269	12,219	1,060	40,362	75,891
July	2,388	21,456	4,116	16,497	1,079	39,631	85,167
August	2,840	19,196	5,466	14,977	1,042	40,529	84,050
September	2,744	13,439	5,265	9,051	964	41,095	72,588
October	2,982	20,884	6,188	11,922	1,346	44,536	87,588
November	2,963	12,137	5,628	13,056	1,222	38,531	73,537
December	2,224	14,042	5,135	14,361	1,060	32,742	69,564
1991—						r	r
January	1,445	17,432	5,765	12,842	831	28,546	66,861
February	2,815	19,718	3,797	15,693	1,079	36,592	79,694
March	2,414	17,386	4,637	13,124	1,073	35,038	73,672
April	2,329	19,389	5,334	16,027	1,008	39,988	84,075
May	2,300	20,662	5,001	17,190	1,166	39,068	85,387
1989-90: July to May	23,716	198,839	n.p.	n.p.	13,357	n.p.	898,860
1990-91: July to May	27,444	195,741	56,332	154,740	11,870	416,296	862,423

(a) Primary forms includes liquid, paste, powder, granules, flakes, blocks, irregular shapes, lumps and similar bulk forms. (b) Excludes regranulated scrap.

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)					
	tonnes	tonnes	tonnes	tonnes	'000 sq. m	tonnes	tonnes
1989-90	12,987	115,113	25,809	18,737	10,350	29,681	89,426
1990—							
March	1,422	10,179	2,371	1,621	1,039	3,028	9,194
April	639	9,067	2,053	1,573	751	2,188	5,222
May	1,114	10,335	2,361	1,633	799	3,163	8,498
June	1,182	9,583	1,920	1,397	911	2,759	6,951
July	1,174	9,648	1,959	1,753	649	2,381	7,697
August	1,339	9,856	2,185	1,673	977	2,346	7,290
September	1,411	8,897	2,250	1,648	863	2,843	7,499
October	1,218	9,968	2,167	1,793	722	2,657	7,239
November	1,273	10,053	2,331	1,924	946	2,708	8,251
December	999	7,473	1,871	1,181	899	2,394	6,892
1991—							
January	530	6,453	1,809	909	532	1,305	2,936
February	984	9,015	1,981	1,788	844	2,458	7,399
March	1,028	8,765	2,258	1,816	784	2,981	7,569
April	749	8,427	1,993	1,697	588	1,629	5,773
May	1,107	9,782	2,174	1,611	727	2,403	6,703
1989-90: July to May	11,805	105,530	23,889	17,340	9,438	26,921	82,475
1990-91: July to May	11,811	98,337	22,977	17,793	8,530	26,106	73,607

(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)	Canal back for retreading rubber tyres (621 21)	Strip (eg orbisrip) for retreading tyres (621 22)	Conveyor belts and belting of vulcanised rubber (629 25)	Tubes, pipes and hoses of un- hardened vulcan- ised rubber(b) (621 41, 45, 49)
	'000	tonnes	tonnes	tonnes	'000 metres
1989-90	n.p.	8,625	n.a.	n.p.	8,360
1989—					
September qtr	n.p.	2,216	n.a.	n.p.	2,192
December qtr	n.p.	2,050	n.a.	n.p.	n.p.
1990—					
March qtr	n.p.	2,132	n.a.	n.p.	2,185
June qtr	n.p.	2,227	n.a.	n.p.	n.p.
September qtr	n.p.	1,934	n.p.	n.p.	1,806
December qtr	n.p.	1,761	n.p.	n.p.	1,493
1991—					
March qtr	n.p.	1,647	1,292	n.p.	1,157
1989-90: July to Mar.	n.p.	6,398	n.a.	n.p.	n.p.
1990-91: July to Mar.	n.p.	5,342	n.p.	n.p.	4,457

(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 clears(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		Other water based (533.73)
		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	4,879
1988-89	6,024	11,285	4,947	3,861	6,676	35,515	31,812	5,675
1989-90	5,724	11,567	4,350	3,713	7,109	32,298	33,135	6,626
1990—								
March	521	1,160	372	272	651	2,744	3,116	607
April	392	775	397	202	361	1,968	2,277	399
May	454	901	290	289	785	2,691	2,620	444
June	476	869	386	311	510	2,341	2,579	422
July	373	884	381	292	477	2,318	2,496	401
August	503	1,049	379	283	766	2,902	3,017	397
September	412	909	347	271	550	2,264	2,631	525
October	513	957	410	356	662	2,749	3,482	723
November	527	1,062	403	321	732	3,496	3,544	534
December	398	889	298	225	573	2,105	2,806	379
1991—								
January	420	735	277	198	394	1,838	2,500	281
February	377	796	284	258	624	2,591	2,996	350
March	402	1,098	393	253	713	2,812	3,222	406
April	516	887	385	257	640	2,304	2,681	345
May	599	1,207	400	345	622	2,699	3,198	407
1989-90: July to May	5,248	10,698	3,964	3,401	6,599	29,957	30,556	6,203
1990-91: July to May	5,040	10,472	3,956	3,058	6,754	28,079	32,574	4,747

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	599	11,057	10,075	3,821	1,011	8,055	24,760
1990—								
March	636	69	1,100	799	349	100	756	2,060
April	342	41	776	518	269	49	664	1,602
May	532	63	1,255	814	341	85	750	2,288
June	617	45	1,029	733	285	79	669	1,754
July	440	68	819	791	307	78	542	1,910
August	573	53	920	768	357	60	656	2,040
September	348	44	722	814	260	69	634	1,925
October	526	30	995	852	397	68	710	2,158
November	455	52	985	841	264	71	749	2,156
December	341	28	492	703	240	59	570	1,537
1991—								
January	233	17	304	419	130	34	629	926
February	486	46	681	659	230	60	649	1,727
March	426	41	861	744	268	63	704	1,815
April	376	37	706	595	223	50	765	1,718
May	516	38	941	772	300	57	714	1,920
1989-90: July to May	5,132	554	10,028	9,342	3,536	933	7,387	23,006
1990-91: July to May	4,720	454	8,427	8,058	2,976	668	7,322	19,833

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	12,330	2,160	2,022	7,635	21,029
1990—					
March	1,103	161	173	822	2,299
April	812	120	169	481	1,771
May	1,168	139	188	656	2,062
June	1,043	125	157	599	1,693
July	969	135	189	609	1,582
August	1,133	142	159	645	1,916
September	1,035	142	148	643	1,604
October	1,393	179	149	762	2,005
November	1,206	189	159	615	1,855
December	978	139	92	657	1,176
1991—					
January	768	115	121	402	1,070
February	929	140	126	573	1,567
March	872	109	118	685	1,740
April	1,002	105	145	481	1,533
May	1,358	145	141	705	1,844
1989-90: July to May	11,287	2,035	1,867	7,036	19,336
1990-91: July to May	11,643	1,538	1,547	6,477	17,891

(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 para-pigmented, Madison and Cerebrate 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—MAY 1991
(^{'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	182	74	343	599
	Finishing coats, pigmented—				
533.66	Full gloss	291	105	811	1,207
533.67	Other than full gloss	91	87	222	400
533.68	Finishing coats, clears	220	46	79	345
	Water thinned—				
	Plastic latex—				
533.69	Primers and undercoats	398	67	157	622
	Finishing coats—				
533.71	Flat	1,446	157	1,096	2,699
533.72	Other than flat (satin, semi-gloss, gloss)	1,543	508	1,147	3,198
533.73	Other water based	248	67	92	407
	Industrial paints, enamels and clears(b)—				
	Automotive—				
533.74	Primers and undercoats	48	381	87	516
	Finishing coats—				
533.75	Nitro-cellulose lacquers	35	n.p.	n.p.	38
533.76	Other	n.p.	694	n.p.	941
	Other industrial—				
533.78	Primers and undercoats	422	207	142	772
	Finishing coats—				
	Nitro-cellulose lacquers—				
533.79	Clears	163	61	76	300
533.81	Colours	30	15	12	57
	Other—				
533.82	Clears	217	473	24	714
533.83	Colours	774	989	157	1,920
533.77	Heavy duty coatings(c)	n.p.	n.p.	671	1,358
533.84	Wood stains (oil, spirit, etc.)	n.p.	n.p.	13	145
	packed for sale or transfer out(d)	n.p.	n.p.	n.p.	141
533.85	Marine coatings(e)	n.p.	—	n.p.	705
	Thinners—				
533.56	For nitro-cellulose coatings	249	238	218	705
533.57	For all other coatings	616	767	460	1,844

(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 specially coatings specifically designed for the protection of interiors and exteriors of buildings, plant and equipment etc. (d) Includes part-pigmented, Madiou and Crocoox 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 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	22	n.p.
December qtr	581	24	346
1991—			
March qtr	668	23	n.p.
1989-90: July to Mar.	1,982	54	n.p.
1990-91: July to Mar.	1,968	68	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 (522.32)			Ammonium sulphate (562.13)	Superphosphate(c) (562.23,24,25)	Phosphatic (562.26)	Potassic (562.30)
		Original	Seasonally Adjusted(a)	Trend(b)				
	tonnes	'000 tonnes	'000 tonnes	'000 tonnes	tonnes	tonnes	tonnes	tonnes
1987-88	n.a.	1,818	..	..	179,211	n.a.	n.a.	n.a.
1988-89	n.a.	1,904	..	..	164,776	n.a.	n.a.	n.a.
1989-90	60,469	1,464	..	..	214,059	2,658,863	n.p.	4,426
1990—								
March	n.p.	146	126	127	15,328	359,319	n.p.	284
April	4,858	132	119	125	13,490	323,539	n.p.	460
May	4,938	125	118	123	18,071	258,459	n.p.	288
June	n.p.	113	115	119	20,949	162,077	n.p.	334
July	3,842	104	127	112	15,604	119,282	n.p.	305
August	5,745	96	114	104	21,685	90,224	n.p.	n.p.
September	5,185	72	84	96	12,630	83,105	n.p.	n.p.
October	4,830	72	84	89	22,744	94,670	n.p.	209
November	4,580	74	75	83	25,801	173,248	n.p.	n.p.
December	5,267	92	82	80	25,996	144,034	n.p.	n.p.
1991—				r				
January	4,944	104	92	78	17,253	192,292	n.p.	n.p.
February	4,685	84	80	76	11,840	172,040	n.p.	179
March	5,469	67	57	73	10,374	138,956	n.p.	66
April	5,073	75	68	71	11,904	155,957	n.p.	n.p.
May	2,931	79	76	69	20,198	126,626	n.p.	n.p.
1989-90: July to May	n.p.	1,350	..	..	193,110	2,496,786	n.p.	4,092
1990-91: July to May	52,551	920	..	..	196,029	1,490,434	n.p.	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	8,439	6,611
1990—			
March	2,442	721	467
April	1,873	652	572
May	2,114	917	1,009
June	2,622	608	878
July	2,041	798	1,004
August	1,849	777	384
September	2,176	586	418
October	1,823	506	538
November	1,886	599	544
December	1,890	524	412
1991—	r	r	r
January	704	162	219
February	1,398	163	364
March	1,790	200	338
April	1,311	173	376
May	1,317	219	418
1989-90: July to May	24,247	7,831	5,733
1990-91: July to May	18,186	4,707	5,016

(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 fat, 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 amphoteric agents.

TABLE 9. DETERGENTS AND SOAP

Period	Soaps in bars, cakes, moulded pieces or shapes for personal use(a) (554.12) tonnes	Shampoo (553.31) tonnes	Scouring preparations(b) (554.39) tonnes	Surface-active washing or cleaning preparations					
				Fabric washing		Dish washing preparations		Soaking, rinsing or bleaching preparations (554.53) tonnes	Other(d) (554.54) tonnes
				Liquid (554.28) '000 litres	Other(c) (554.29) tonnes	Liquid (554.51) '000 litres	Other(c) (554.52) tonnes		
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 r	33,461	19,926	12,125	50,924	108,454	29,991	4,099	23,837	37,144
1990—				r	r	r		r	r
March	3,265	2,035	1,297	3,412	10,516	2,352	399	2,454	3,030
April	3,172	1,578	836	2,921	6,624	2,661	349	1,358	2,639
May	2,870	1,873	1,272	3,975	9,405	2,746	527	2,154	3,058
June	2,869	1,747	1,082	3,676	10,158	1,904	258	1,214	3,282
July	2,225	1,679	1,072	3,616	10,792	1,503	238	1,573	3,127
August	2,749	1,409	1,026	3,337	10,645	2,392	263	1,312	2,533
September	2,411	1,492	1,082	3,406	8,023	2,347	341	1,199	2,940
October	3,167	1,794	1,250	3,848	9,115	2,062	389	1,455	3,246
November	3,184	1,713	889	4,000	10,812	2,323	454	1,552	4,175
December	2,403	1,417	964	2,715	6,773	1,775	265	1,357	2,779
1991—				r	r	r	r	r	r
January	2,250	1,320	r466	1,854	5,381	1,509	195	2,008	2,561
February	3,221	r1,784	r1,163	3,452	9,913	2,319	283	2,721	4,026
March	2,945	r1,521	1,046	3,609	10,367	2,120	462	2,110	3,158
April	3,125	1,723	872	3,907	8,586	2,038	228	1,994	2,789
May	3,045	1,766	1,090	4,231	11,041	2,675	409	2,491	3,878
1989-90: July to May	30,592	18,179	11,042	47,248	98,296	28,088	3,840	22,623	33,862
1990-91: July to May	30,726	17,619	10,921	37,975	101,448	23,064	3,528	19,773	35,211

(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. In the seasonal adjustment account has 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:

Manufacturing Production, Australia, Preliminary (8301.0) — issued monthly

Manufacturing Production, Australia, Household Appliances and Electrical Equipment (8357.0) — issued monthly

Manufacturing Production, Australia, Clothing and Footwear (8358.0) — issued monthly

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Manufacturing Production, Australia, Wood and Wood Products (8369.0) — issued monthly

Manufacturing Commodities : Selected Principal Articles Produced, Australia 1986-87, Preliminary (8365.0)

Manufacturing Commodities : Principal Articles Produced, Australia 1986-87 (8303.0)

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.

Symbols and other usages

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(but included in totals where applicable)
- n.a. not available
- .. not applicable
- r revised since last issue
- nil or rounded to zero



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ISSN 1036-0336