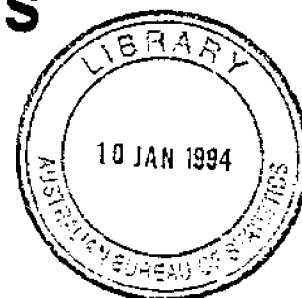


Motor Vehicle Registrations Western Australia November 1993



MAIN FEATURES

New motor vehicle registrations (excluding motor cycles) for November 1993 showed increases in original and seasonally adjusted terms compared with October 1993. The trend estimate series, however, continued downwards.

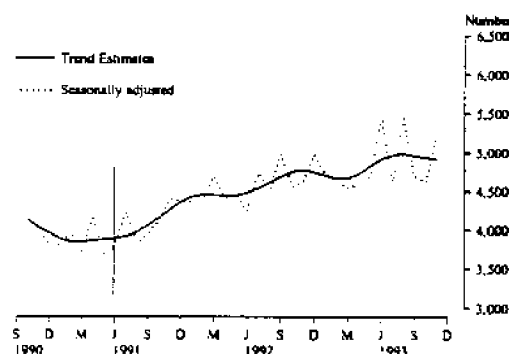
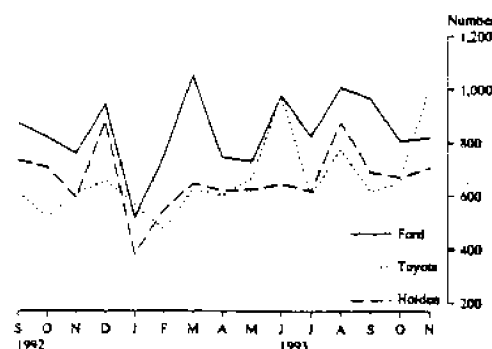
In original terms, total registrations rose by 16.9 per cent (or 774 registrations). Passenger vehicles rose by 14.4 per cent (or 529 registrations) and other vehicles by 26.8 per cent (or 245 registrations).

Seasonally adjusted, total registrations rose 12.5 per cent compared with October 1993. The trend estimate series still shows a decline, down 0.4 per cent during the period.

Toyota led the passenger vehicle market for November 1993 with 1,008 registrations (24.0 per cent) followed by Ford with 821 registrations (19.5 per cent) and Holden with 705 registrations (16.8 per cent).

Ford Falcon/Fairmont had a 12.9 per cent share of the passenger vehicle models registered in the eleven months to November 1993, followed by Holden Commodore/Calaïs (10.3 per cent) and Mitsubishi Magna (7.0 per cent).

NEW MOTOR VEHICLE REGISTRATIONS

NEW PASSENGER VEHICLES
TOP THREE MAKES

INQUIRIES

- For further information about these statistics and the availability of related unpublished statistics, contact Robin Dalby on (09) 323 5149.
- For other inquiries, including copies of publications, please contact Information Services on (09) 323 5140.

TABLE 1 - NEW MOTOR VEHICLES (a) REGISTERED, WESTERN AUSTRALIA

Period	Passenger vehicles	Light commercial vehicles	Rigid trucks	Articulated trucks	Non - freight carrying trucks (b)	Buses	Motor cycles	Total	Perth Statistical Division
1990-91 (c)	36,926	6,507	3,497	138	74	658	2,784	50,584	40,004
1991-92	41,979	7,664	1,024	109	101	675	1,814	53,366	41,926
1992-93	45,567	9,581	1,009	125	84	757	2,117	59,240	46,593
1992— September	4,168	678	78	7	8	56	141	5,136	4,183
October	3,775	862	90	11	14	45	209	5,006	3,903
November	3,657	725	88	10	12	64	160	4,716	3,727
December	4,264	823	107	12	6	72	287	5,571	4,437
1993— January	3,179	679	42	13	5	56	182	4,156	3,260
February	3,452	741	69	5	6	52	224	4,549	3,586
March	4,002	881	93	11	6	60	180	5,233	4,147
April	3,444	705	73	9	5	54	241	4,531	3,510
May	3,497	863	81	14	7	61	112	4,635	3,580
June	4,467	1,286	128	19	4	108	98	6,110	4,605
July	3,742	719	94	14	6	52	134	4,761	3,777
August	4,799	657	79	16	5	42	134	5,732	4,583
September	3,861	726	88	8	6	55	142	4,886	3,918
October	3,674	753	88	17	6	49	156	4,743	3,675
November	4,203	984	91	26	5	52	327	5,688	4,479

(a) Excludes plant and equipment, caravans and trailers. (b) Includes ambulances, hearses, fire engines and fire tenders, tow trucks, mobile cranes, machine mounted non-freight carrying trucks and motorised caravans. (c) Break in the series, see paragraph 2 in the explanatory notes.

TABLE 2 - NEW MOTOR VEHICLES (a) REGISTERED, WESTERN AUSTRALIA
SEASONALLY ADJUSTED AND TREND ESTIMATE

Period	Passenger vehicles			Other vehicles			Total		
	Original	Seasonally adjusted r	Trend estimate	Original	Seasonally adjusted r	Trend estimate	Original	Seasonally adjusted r	Trend estimate
1992— September	4,168	4,129	3,797	827	860	893	4,995	4,989	4,690
October	3,775	3,615	3,829	1,022	943	926	4,797	4,558	4,755
November	3,657	3,718	3,830	899	910	950	4,556	4,628	4,780
December	4,264	3,968	3,794	1,020	1,009	953	5,284	4,977	4,747
1993— January	3,179	3,722	3,753	795	992	949	3,974	4,714	4,702
February	3,452	3,733	3,710	873	899	952	4,325	4,632	4,662
March	4,002	3,595	3,701	1,051	942	965	5,053	4,537	4,666
April	3,444	3,726	3,747	846	881	984	4,290	4,607	4,731
May	3,497	3,719	3,836	1,026	973	999	4,523	4,692	4,835
June	4,467	4,165	3,920	1,545	1,295	1,001	6,012	5,460	4,921
July	3,742	3,699	3,980	885	922	991	4,627	4,621	4,971
August	4,799	4,556	4,004	799	885	972	5,598	5,441	4,976
September	3,861	3,773	3,999	883	927	959	4,744	4,700	4,958
October	3,674	3,735	3,984	913	879	955	4,587	4,614	4,939
November	4,203	4,085	3,966	1,158	1,110	954	5,361	5,195	4,920

(a) Excludes motor cycles, plant and equipment, caravans and trailers.

TABLE 3 - REGISTRATIONS OF NEW PLANT AND EQUIPMENT, CARAVANS AND TRAILERS

Period	Plant and equipment (a)	Caravans	Trailers			Total
			Box	Boat	Other	
PERTH STATISTICAL DIVISION						
1993— June	39	55	390	50	84	524
July	47	51	349	39	58	446
August	30	52	341	77	77	495
September	35	58	411	106	78	595
October	41	48	394	69	61	524
November	30	54	394	115	99	608
WESTERN AUSTRALIA						
1993— June	88	85	442	80	128	650
July	82	66	406	81	107	594
August	56	83	392	119	128	639
September	67	82	462	157	122	741
October	94	69	443	119	122	684
November	129	80	447	207	169	823

(a) Includes tractors.

TABLE 4 — REGISTRATIONS OF NEW PASSENGER VEHICLES BY MAKE AND TARE (a) —
NOVEMBER 1993

Make	Western Australia						Perth		
	Tare (kg) -						Statistical		
	Up to 900	901 - 1100	1101 - 1300	1301 - 1500	Over 1500	Not stated	Total	Per cent	Division
Audi	—	—	1	4	—	—	5	0.1	4
B.M.W.	—	—	12	6	3	—	21	0.5	19
Daihatsu	119	23	15	2	—	—	159	3.8	145
Eunos	—	—	8	—	—	—	8	0.2	8
Ford	50	163	31	325	252	—	821	19.5	652
Holden	109	35	28	499	34	—	705	16.8	586
Honda	1	50	26	40	4	—	121	2.9	113
Hyundai	—	255	58	—	—	—	313	7.4	222
Jaguar	—	—	—	—	1	—	1	—	1
Lada	—	5	10	—	—	—	15	0.4	13
Land Rover	—	—	—	—	20	—	20	0.5	15
Lexus	—	—	—	—	5	—	5	0.1	4
Mazda	47	38	31	—	2	—	118	2.8	95
Mercedes Benz	—	—	4	5	3	—	12	0.3	12
Mitsubishi	40	41	24	294	65	—	464	11.0	381
Nissan	—	61	29	17	90	—	197	4.7	159
Peugeot	—	—	6	—	—	—	6	0.1	5
Porsche	—	—	—	1	—	—	1	—	1
Range Rover	—	—	—	—	5	—	5	0.1	4
Renault	—	5	—	—	—	—	5	0.1	4
Saab	—	—	7	4	1	—	12	0.3	12
Subaru	—	41	22	2	—	—	65	1.5	46
Suzuki	28	45	12	—	—	—	85	2.0	70
Toyota	4	241	285	238	240	—	1,008	24.0	863
Volkswagen	—	9	—	—	—	—	9	0.2	9
Volvo	—	10	—	11	1	—	22	0.5	19
Total	398	1,022	609	1,448	726	—	4,203	100.0	3,462

(a) See paragraph 12 of the Explanatory Notes.

TABLE 5 — REGISTRATIONS OF NEW PASSENGER VEHICLES (a) BY SELECTED MAKE AND MODEL

Make and model	November 1993		11 months to November 1993		Make and model	November 1993		11 months to November 1993	
	No.	Per cent (b)	No.	Per cent (b)		No.	Per cent (b)	No.	Per cent (b)
Ford—					Mitsubishi—				
Falcor/Fairmont	517	12.3	5,448	12.9	Magna	275	6.5	2,979	7.0
Laser	158	3.8	1,643	3.9	Lancer	82	2.0	1,301	3.1
Festiva	50	1.2	897	2.1	Pajero	65	1.5	719	1.7
Other	96	2.3	1,193	2.8	Other	42	1.0	642	1.5
Total	821	19.5	9,181	21.7	Total	464	11.0	5,641	13.3
Holden—					Nissan—				
Commodore/Calais	501	11.9	4,378	10.3	Pulsar	59	1.4	830	2.0
Barina	108	2.6	1,051	2.5	Patrol	81	1.9	744	1.8
Apollo	47	1.1	791	1.9	Pintara	11	0.3	137	0.3
Other	49	1.2	802	1.9	Other	46	1.1	408	1.0
Total	705	16.8	7,022	16.6	Total	197	4.7	2,119	5.0
Hyundai—					Toyota—				
Excel	246	5.9	2,381	5.6	Corolla	245	5.8	2,153	5.1
Lantra	35	0.8	379	0.9	Camry	342	8.1	2,187	5.2
S	7	0.2	149	0.4	Landcruiser	197	4.7	1,550	3.7
Sonata	25	0.6	109	0.3	Other	224	5.3	1,674	4.0
Total	313	7.4	3,018	7.1	Total	1,008	24.0	7,564	17.9

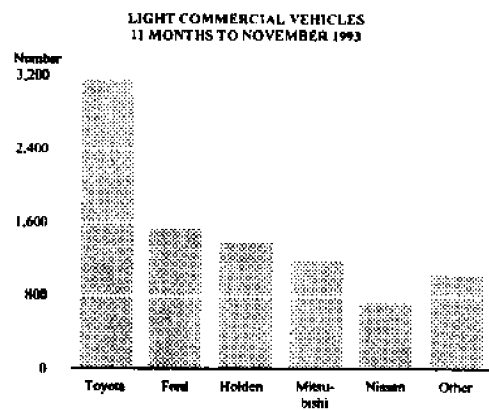
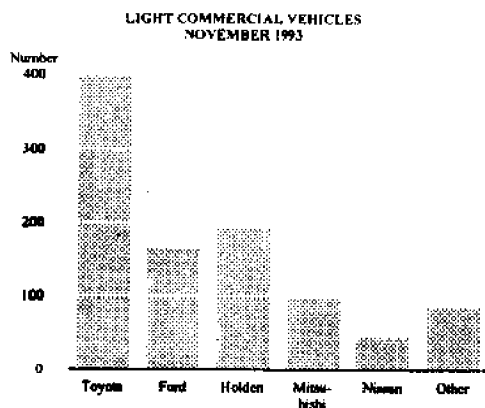
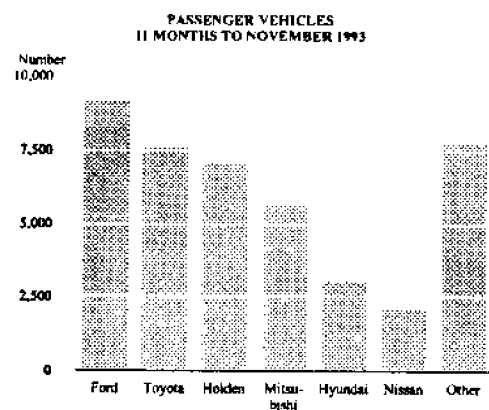
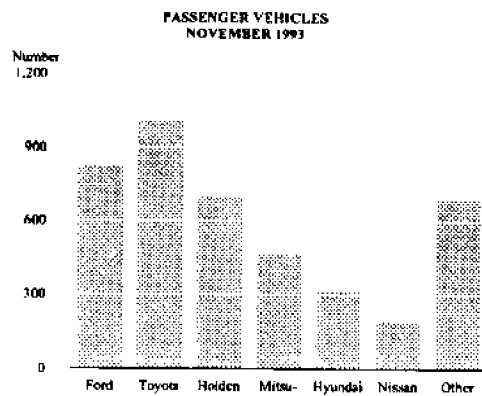
(a) See paragraph 12 of the explanatory notes. (b) Of total registrations of passenger vehicles.

**TABLE 6 — REGISTRATIONS OF NEW LIGHT COMMERCIAL VEHICLES BY MAKE AND TARE (a) —
NOVEMBER 1993**

Make	Western Australia						Perth		
	Tare (kg) -						Statistical		
	Up to 900	901 - 1100	1101 - 1300	1301 - 1500	Over 1500	Not stated	Total	Per cent	Division
Asia	—	—	3	—	—	—	3	0.3	—
Daihatsu	—	—	—	—	1	—	1	0.1	—
Ford	—	—	10	110	44	—	164	16.7	102
Holden	—	—	15	123	56	—	194	19.7	126
Hyundai	—	4	—	—	—	—	4	0.4	4
Kia	—	—	—	—	1	—	1	0.1	1
Land Rover	—	—	—	—	4	—	4	0.4	3
Mazda	—	—	4	17	35	—	56	5.7	40
Mitsubishi	—	—	49	25	25	—	99	10.1	69
Nissan	—	3	12	29	29	—	44	4.5	22
Subaru	—	6	—	—	—	—	6	0.6	—
Suzuki	6	—	—	—	—	—	6	0.6	3
Toyota	—	—	78	76	244	—	398	40.4	245
Volkswagen	—	—	—	4	—	—	4	0.4	3
Total	6	10	162	367	439	—	984	100.0	618

(a) See paragraph 13 of the Explanatory Notes.

REGISTRATIONS OF NEW MOTOR VEHICLES (a)



(a) Data are compiled via the new processing system. See paragraph 2 of explanatory notes.

TABLE 7 — REGISTRATIONS OF NEW RIGID AND ARTICULATED TRUCKS BY MAKE —
NOVEMBER 1993

Western Australia												Perth Statistical Division
Rigid trucks								Articulated trucks				
G.V.M. (tonnes) (a) -												
Make	Up to 4	Over 4 up to 8	Over 8 up to 12	Over 12 up to 16	Over 16 up to 30	Over 30	Not stated	Total	Per cent	Total	Per cent	
Daihatsu	1	—	—	—	—	—	—	1	1.1	—	—	1
Ford	—	6	—	—	1	—	—	7	7.7	3	11.5	4
Hino	—	—	6	9	—	—	—	15	16.5	—	—	14
International	—	—	—	3	1	—	—	4	4.4	2	7.7	3
Isuzu	—	15	6	7	2	—	—	30	33.0	—	—	24
Kenworth	—	—	—	—	—	—	—	—	—	10	38.5	7
Mack	—	—	—	—	—	—	—	—	—	2	7.7	2
Mazda	—	4	—	—	—	—	—	4	4.4	—	—	3
Mercedes Benz	—	—	—	1	—	—	—	1	1.1	—	—	1
Mitsubishi	—	8	2	4	1	—	—	15	16.5	1	3.8	10
Oka	—	2	—	—	—	—	—	2	2.2	—	—	1
Scania	—	—	—	—	—	—	—	—	—	5	19.2	—
Toyota	1	5	—	—	—	—	—	6	6.6	—	—	3
UD Nissan	—	—	—	2	1	—	—	3	3.3	—	—	3
Volvo	—	—	—	—	3	—	—	3	3.3	3	11.5	6
Total	2	40	14	26	9	—	—	91	100.0	26	100.0	82

(a) Gross vehicle mass refers to the permitted aggregate of the tare of and the load borne by the vehicle.

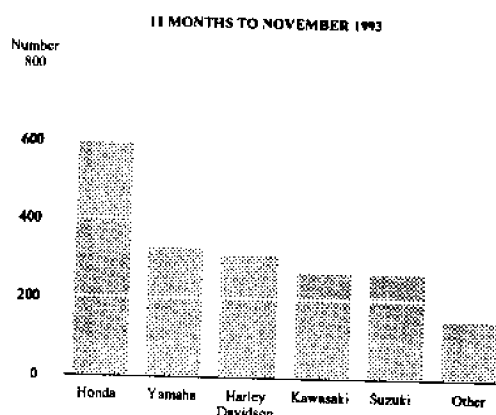
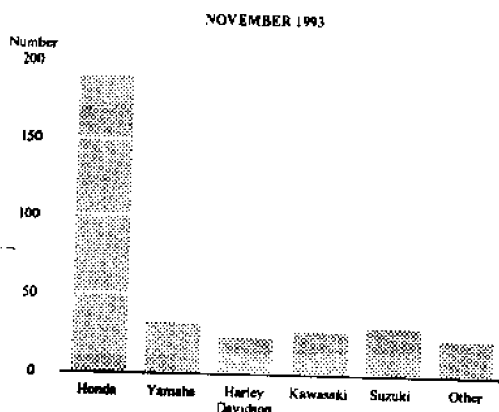
TABLE 8 — REGISTRATIONS OF NEW VEHICLES BY FUEL TYPE, NUMBER OF CYLINDERS AND BODY TYPE (a) — NOVEMBER 1993

Number of cylinders	Passenger vehicles		Light commercial vehicles		Trucks and buses		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
PETROL								
3	86	2.1	—	—	—	—	86	1.8
4	2,283	56.3	419	69.5	3	42.9	2,705	57.9
5	5	0.1	2	0.3	—	—	7	0.1
6	1,564	38.5	171	28.4	1	14.3	1,736	37.2
8	96	2.4	10	1.7	2	28.6	108	2.3
Other and unknown	24	0.6	1	0.2	1	14.3	26	0.6
Total	4,058	100.0	603	100.0	7	100.0	4,668	100.0
DIESEL								
4	38	19.3	204	53.5	51	30.5	283	40.8
6	116	80.0	176	46.2	109	65.3	401	57.9
8	—	—	—	—	6	3.6	6	0.9
Other and unknown	1	0.7	1	0.3	1	0.6	3	0.4
Total	145	100.0	381	100.0	167	100.0	693	100.0
ALL FUEL TYPES								
3	86	2.0	—	—	—	—	86	1.6
4	2,311	55.0	623	63.3	54	31.0	2,988	55.7
5	5	0.1	2	0.2	—	—	7	0.1
6	1,680	40.0	347	35.3	110	63.2	2,137	39.9
8	96	2.3	10	1.0	8	4.6	114	2.1
Other and unknown	25	0.6	2	0.2	2	1.1	29	0.5
Total	4,203	100.0	984	100.0	174	100.0	5,361	100.0

(a) Excludes motor cycles, plant and equipment, caravans and trailers.

**TABLE 9 — REGISTRATIONS OF NEW MOTOR CYCLES BY MAKE AND CUBIC CAPACITY OF ENGINE —
NOVEMBER 1993**

Make	Western Australia							Perth		
	Cubic centimetres -							Statistical		
	Up to 50	51 - 150	151 - 250	251 - 500	501 - 750	Over 750	Not stated	Total	Per cent	Division
B.M.W.	—	—	—	—	1	3	—	4	1.2	2
Ducati	—	—	—	—	3	8	—	11	3.4	10
Harley Davidson	—	—	—	—	—	23	—	23	7.0	22
Honda	8	160	7	—	10	6	—	191	58.4	181
Husqvarna	—	—	1	—	—	—	—	1	0.3	—
Kawasaki	—	—	12	—	11	4	—	27	8.3	18
Motoguzzi	—	—	—	—	—	4	—	4	1.2	4
Suzuki	9	—	9	4	7	2	—	31	9.5	21
Triumph	—	—	—	—	—	2	—	2	0.6	2
Yamaha	8	—	17	—	4	3	—	32	9.8	23
Other and unknown	—	1	—	—	—	—	—	1	0.3	1
Total	25	161	46	4	36	55	—	327	100.0	284



**TABLE 10 — MOTOR VEHICLES (a) ON REGISTER, WESTERN AUSTRALIA
(⁰⁰⁰)**

At 30 June	Passenger vehicles	Light commercial vehicles	Rigid trucks	Articulated trucks	Non - freight carrying trucks (b)	Buses	Motor cycles	Total	Perth Statistical Division
1988	670.2	135.9	73.2	5.0	8.7	7.4	35.4	935.8	681.2
1989	708.3	140.9	78.6	5.3	9.0	7.9	36.3	986.2	719.1
1990	746.2	146.7	83.8	5.7	9.3	8.6	37.5	1,037.7	759.7
1991	764.2	149.1	86.2	5.6	9.3	9.0	38.2	1,061.6	774.9
1992	781.6	150.1	87.9	5.6	9.3	9.5	37.8	1,081.7	791.2
1993	803.7	153.3	91.1	5.8	9.3	9.8	37.9	1,111.0	812.1

(a) Excludes plant and equipment, caravans and trailers. (b) Includes ambulances, hearses, fire engines and fire tenders, tow trucks, mobile cranes, machine mounted non-freight carrying trucks and motorised caravans.

EXPLANATORY NOTES

Introduction

This publication contains detailed information regarding registrations of new motor vehicles, motor cycles, plant and equipment, caravans and trailers. Details of the number of motor vehicles on register are also included.

2. The statistics in this publication are based, from July 1991 onwards, on new processing procedures using the new Vehicle Identification Number (VIN) introduced by motor vehicle registration authorities from July 1990. The VIN system allows more accurate identification and classification of newly registered vehicles. As a result, data processed on this system are not strictly comparable with those processed on the old system.

3. Both the old and new series have been compiled for the period between December 1990 and July 1991. Detailed statistics on both bases are available on request.

Scope and coverage

4. Vehicle licensing in Western Australia is the responsibility of the Police Department and a number of local government authorities performing licensing functions or acting as collection agents on behalf of the Department.

5. The statistics in this bulletin have been prepared from data made available by licensing authorities and reflect information as recorded in registration documents. Delays in the receipt of some registrations data have meant that new motor vehicle registration statistics for a particular month include vehicles registered prior to that month.

6. Registrations of new motor vehicles relate to factory-new vehicles registered for the first time.

7. The statistics include vehicles with diplomatic and consular plates and State and Commonwealth Government owned vehicles other than those belonging to the defence services.

8. The statistics exclude any vehicles which will not be used on public roads such as tractors (particularly the agricultural type), plant and equipment and motor vehicles used solely on farms, in mines or in National Parks, etc. as well as recreational vehicles such as trail bikes or sand dune buggies.

Vehicle Identification Number (VIN)

9. The Vehicle Identification Number (VIN) uniquely identifies each vehicle. Embedded within this number are details of make and model together with other relevant information concerning the vehicle. The VIN is now collected by the Police Department at the time each new vehicle is registered. The VIN is passed on to the Australian Bureau of Statistics (ABS) as part of the New Motor Vehicles Registrations record.

Vehicle classification

10. The decoding of the VIN has resulted in better identification of each vehicle's body type and consequently classification of vehicles to particular categories.

11. Small passenger carrying vans such as minibuses are now consistently classified as passenger vehicles. Under the old system, these could have been classified as cars, station wagons or buses. Cab-chassis vehicles, which were previously classified to small trucks, are now consistently classified to light commercial vehicles. In addition, tractors are no longer classified separately. They are now included in the plant and equipment category.

Vehicle type definitions

12. *Passenger Vehicles.* Vehicles constructed primarily for the carriage of less than 10 passengers (including the driver). Included are cars, station wagons, 4WD passenger vehicles and forward control passenger vehicles.

13. *Light Commercial Vehicles.* Vehicles constructed primarily for the carriage of goods and do not exceed 3.5 tonnes gross vehicle mass (GVM). Included are utilities, panel vans, cab-chassis and forward control vehicles (whether 4WD or not).

14. *Rigid Trucks.* Vehicles constructed primarily for load carrying with a gross vehicle mass (GVM) exceeding 3.5 tonnes. Included are normal rigid trucks with a tow bar, draw bar or other non-articulated coupling on the rear for use with a trailer or dolly.

15. *Articulated Trucks.* Vehicles constructed primarily for load carrying consisting of a prime mover having no significant load carrying area but with a turn table device which can be linked to a trailer. With or without a trailer the gross combination mass (GCM) will exceed 3.5 tonnes.

16. *Non-freight Carrying Trucks.* Includes specialist vehicles such as ambulances, mobile cranes or vehicles fitted with special purpose equipment and having no goods carrying capacity.

17. *Omnibuses.* Includes all passenger vehicles having more than nine seats, including the driver.

Seasonal adjustment and trend estimation

18. Original, seasonally adjusted and trend estimate series for registrations of new motor vehicles are shown in Table 2. The two component series 'Passenger vehicles' and 'Other vehicles' are each adjusted separately and then summed to derive total seasonally adjusted and trend registrations. In the seasonally adjusted series, account has been taken of normal seasonal factors and 'trading day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month) and the effect of movement in date of Easter which may, in successive years, affect figures for different months.

19. Seasonally adjusted statistics should not be regarded as in any way definitive. In interpreting particular seasonally adjusted statistics it is important to bear in mind the methods by which they have been derived and the limitations to which the methods used are subject.

20. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series may be more clearly recognised. Seasonal adjustment procedures do not aim to remove the irregular or

non-seasonal influences which may be present in any particular months, such as the effect of introducing new models or of industrial disputes. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after adjustment for seasonal variation.

21. The seasonally adjusted series can, however, be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate. The trend estimates of motor vehicle registration statistics are shown in Table 2 and have been derived by applying a 13-term Henderson-weighted moving average to the seasonally adjusted series.

22. While the technique enables trend estimates for the latest period to be produced, it does result in revisions to the trend estimate for the most recent months as additional observations become available. There may also be revisions as a result of changes in the original data, and as a result of the re-estimation of the seasonal factors.

23. Users may wish to refer to the ABS Information Papers, *A Guide to Interpreting Time Series - Monitoring Trends - An Overview* (1348.0), *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.

Vehicles on register

24. The number of vehicles on register at a given date are those for which fees were paid up for a period which includes the reference date.

Unpublished data and related publications

25. The ABS may also make available on request certain unpublished motor vehicle registrations data. This data includes make and small area breakdowns of vehicles on register figures. A charge may be made for providing unpublished information.

26. Other ABS publications which may be of interest include:

AUSTRALIA

	Catalogue No
Registrations of New Motor Vehicles (Preliminary) (Monthly)	9301.0
Motor Vehicle Registrations (monthly)	9303.0
Motor Vehicle Registrations (annual)	9304.0
Motor Vehicle Census (triennial)	9309.0

WESTERN AUSTRALIA

Motor Vehicle Registrations (annual)	9304.5
Vehicles on Register (annual)	9305.5

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

—	nil or rounded to zero
r	figure or series revised since last issue
n.a.	not available
—	break in continuity of series

28. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

Electronic services

DISCOVERY

Key *656# for selected current economic, social and demographic statistics.

PC-AUSSTATS

Thousands of up-to-date time series are available on this ABS on-line service. For further information phone the PC-Ausstats Help Desk on (06) 252 6017.

DIAL-A-STATISTIC

Phone 0055 86400 from anywhere, any time for the latest available data on the Consumer Price Index, National Accounts, Balance of Payments, Labour Force, Average Weekly Earnings, and Estimated Resident Population.

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