



Pilbara Traffic Digest

2018/19 - 2023/24





Information Sheet

Traffic Digest

Overview

This report summarises the average number of vehicles and heavy vehicles travelling at locations within Western Australia. Traffic volumes and percentage of heavy vehicles are provided for the latest available six years.

Main Roads undertakes traffic counting throughout Western Australia. Strategic locations are monitored on a continuous basis and are referred to as Network Performance Sites (NPS). Sampling of the wider network is performed using portable equipment over a short period. Although many Local Government roads are counted the focus is on providing information about the State road network.

Using the report

The traffic volumes in this report are expressed as the average number of vehicles at each location on a typical weekday (Monday to Friday) for the metropolitan area, and a typical day (Monday to Sunday) for regions outside the metropolitan area.

Where sufficient information is available from continuous monitoring sites the short term samples can be adjusted to remove the effect of seasonal variation.

If multiple counts have occurred at the same location within a given year, for example before and after a network change, only the latest count is used.

The count type may vary at the location between axle counts and classification counts. Axle counts record the number of axle hits at a site divided by two. This method gives an indicative number of vehicles, assuming all vehicles have only two axles. Locations where axle counts are used are those where there is very little freight movement.

Classification counts detect the axle configuration of each vehicle and determine the type of vehicle being counted (using the [AustRoads 1994 Classification Scheme](#)). This method of counting gives the actual number of vehicles at the location and can be identified in the report by the presence of a value in the right column of each year. This value is the proportion of heavy vehicles (which include buses, trucks and road trains). Speed information can also be obtained from these collections.

Changes to the road network may affect traffic volumes. For example, the extension of a freeway or closure of a road may affect traffic behaviour on surrounding roads. To assist in identifying these a list of major network changes is included at the end of the report. This list is not exhaustive and is predominantly changes to roads managed by Main Roads Western Australia (known as state roads).

Public holidays are excluded and vehicles numbers are rounded to the nearest ten. All years reported are financial years, commencing 1 July and ending 30 June. The State is divided for reporting using [Main Roads regions](#) or Local Government boundaries.

Further information

If you require further information please email reportingcentre@mainroads.wa.gov.au or telephone 08 9323 4653 (9am to 5pm, Monday to Friday)



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Report Sample

South West		2004/05	2005/06	2006/07
Road Name	Location			
Peelwood Pde	N of Old Coast Rd			
Pemberton NorthLife Rd	S of Vasse Hwy			
	N of Rifle Range Rd			
	N of Richardson Rd			
Penn Ct	W of South Western Hwy	370 5.0	420 4.6	400 5.5
Peppermint Grove Rd	E of Old Coast Rd			200 13.2
Perup Rd	E of South Western Hwy		1 730 4.5	1 740 5.6
Phillips Ct	E of Hampton St		660 3.3	
Plavinski Rd	S of Coalfields Rd	320 12.4		
Pingara Rd	E of Mandurah Rd		25 770	22 030
	E of Lakes Rd			
	W of Rio Grande Av	21 090 3.9		
	E of Riverside Rd		19 710	
	E of Ranbyn Rd	15 280 5.0	17 110 7.0	17 140 7.9
	W of Webster Wy	19 070 4.9		
	W of Tankin Cr	13 960 5.9		
	E of Tankin Cr	13 130 6.0		
	At Ravenswood Bridge	12 580	11 130 5.5	13 620 5.9
	E of Flagant Rd		12 510 6.4	
	E of Jolly Rambler Blvd	11 550 6.1		
	W of George St		8 960 8.1	9 630 7.8
	W of Choll St			
	W of Anstruther Rd		2 820 17.2	2 550 18.0
	E of Anstruther Rd			
	W of Mandurah Rd	2 090 3.8		
Pingara Williams Rd	S of South Western Hwy			
	S of Satter St	9 940 3.2		
	E of Napier Rd			
	W of Seap Rd	2 760 7.0	2 410 6.5	2 030 8.0
	E of Farley Rd			
	W of Nanga Brook Rd	10 020	6 610 3.5	6 980
	E of Nanga Brook Rd	7 930		
	E of Plant Access Rd			
	W of Bannister Mandong Rd		10 670 10.8	
	E of Bannister Mandong Rd			
	N of Chernys Rd		14 120 8.4	
Pollard Rd	W of Bannister Rd		750 4.1	690 7.9
Prinsep Ct	N of Rowlands Lake King Rd	3 670 2.8		
Pritchard Ct	W of South Western Hwy		3 150 5.4	3 450 6.1
Beach Rd	W of Jan	2 110 10.5	2 080 11.6	2 090 11.4
Beela Rd	E of Sou	1 660 4.3		
Binningup Rd	W of Ol	1 510 18.2		
Blackwood Av	N of Ell	3 510 2.6	3 840 3.8	
Blackwood Rd	S of Sou	2 710 7.8	3 090 5.8	3 500 8.2

Seasonal Adjustment

Years with this symbol cannot be adjusted to remove the effect of seasonal variation. The volumes reported are from samples taken over a short period and may not represent typical behaviour.

Continuous Monitoring

Network Performance Sites (NPS) provide continuous monitoring, 24 hours a day, 7 days a week.

Percentage of Heavy Vehicles

Classification counts record the composition of the traffic and the percentage of heavy vehicles is shown on the report where a count of this type has been used.

Traffic Statistics

The traffic volumes can be calculated to represent the average number of vehicles on a weekday (Monday to Friday, M-F) or daily (Monday to Sunday, M-S).

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Road Name	Location	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
B							
Bayview Rd	E of Bathgate Rd	6 330 3.0		6 490 1.8		7 050 7.7	
Beasley Rd	N of El Caballo Rd					170 44.1	
Burrup Peninsula Rd	N of Dampier Rd NPS				2 960 26.0	3 040 26.9	3 420 30.7
Burrup Rd	N of Dampier Rd						3 620 30.0
	N of Village Rd			1 410 75.4		1 740 17.8	1 880 27.3
Butt Weld Rd	S of Great Northern Hwy	680 16.2		1 200 25.3		1 500 19.0	
C							
Cleaverville Rd	S of Harding St			2 270 43.6			
Cooke Point Rd	N of Wilson St	4 370 3.6		4 570 14.2		4 560 8.3	
D							
Dampier Rd	E of Broadhurst Rd	14 660 20.2		15 570 8.3		15 090 6.8	
	N of Madigan Rd NPS	7 470 16.0	7 960 14.7			8 680 14.7	9 030 15.9
	N of Burrup Rd					4 840 9.2	5 050 36.9
G							
Great Northern Highway	S of Powell Rd			2 980 80.9			3 360 46.5
	N of Powell St						4 730 27.2
	W of Pinga St			3 510 44.5			4 360 36.4
Great Northern Hwy	N of Newman Airport Access Rd						2 040 28.7
	N of Newman Airport NPS				2 440 35.0	2 330 35.4	2 320 36.4
	N of Marble Bar Rd (Newman)						4 230 27.2
	N of Newman Dr			2 010 84.5			
	S of Karijini Dr NPS	600 61.7	670 63.8	800 65.2	1 010 71.6	1 000 74.5	970 73.8
	N of Munjina Rd NPS				1 190 77.8	1 020 78.4	970 76.7
	N of Solomon Rail Crossing	1 040 45.3					1 710 56.7
	S of Wodgina NPS				1 380 76.2	1 170 78.1	1 050 77.7
	S of North West Coastal Hwy NPS	1 590 67.0	1 380 74.7	1 630 67.1	1 580 70.7	1 520 68.0	1 450 63.4
	N of North West Coastal Hwy NPS	1 850 61.9	1 830 62.3	1 990 60.1	2 080 59.6	1 950 60.5	1 840 61.0
	S of Powell Rd NPS				3 320 47.7	2 970 49.4	2 710 51.4
	E of Pinga St						3 820 33.6
	W of Port Hedland Rd NPS	2 650 31.0	3 320 28.8				
	E of Madigan Rd	1 170 52.9			2 680 48.6		
	W of Marble Bar Rd NPS	1 110 32.6	1 210 34.8	1 330 38.7	1 730 47.5	1 710 52.4	1 690 54.3
	E of Marble Bar Rd			410 63.2			570 32.2
H							
Hamilton Rd	S of Great Northern Hwy		3 720 32.7				
	S of North Circular Rd		6 320 6.7	4 710 57.3		9 230 10.5	
K							
Karijini Dr	W of Great Northern Hwy NPS	330 42.4	380 47.0	420 46.0	400 43.4	370 45.3	390 48.7
	W of Marandoo Access Rd NPS				960 39.9	800 41.1	770 42.6
Karratha Tom Price Rd	S of North West Coastal Hwy NPS	340 41.0	400 35.7	440 35.7	470 33.3	560 36.3	540 34.0
L							
Link Rd (South Hedland)	S of Powell Rd		2 650 17.8				
M							
Madigan Rd	S of Dampier Rd NPS	1 760 35.6	1 880 33.5	1 850 33.7	2 120 33.0	2 280 35.2	2 390 36.6

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Road Name	Location		2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Manuwarra Red Dog Hwy	N of Tom Price NPS		300 41.7	430 43.3	400 38.7	350 31.0	310 28.9	360 31.3
Marble Bar Rd	N of Great Northern Hwy NPS		720 35.2	810 33.9	870 36.7	910 38.2	980 35.9	930 36.5
	S of Ethel Creek Jigalong Rd				260 81.8			430 37.1
	S of Munjina Roy Hill Rd							330 34.4
	N of Fortescue River NPS		230 48.9	220 50.7	260 51.4	320 50.5	460 45.7	320 47.2
	S of Skull Springs Rd				320 43.2			110 8.3
	S of Ripon Hills Rd				40 27.8			70 9.0
	N of Limestone Marble Bar Rd				430 40.9			480 56.9
	S of Great Northern Hwy NPS		270 55.5	230 53.9	290 56.5	480 70.5	520 70.6	540 74.2
McGregor St	W of Crawford St		2 040 10.5				4 090 10.0	
Mine Rd	E of Paraburdoo Tom Price							2 680 15.6
	S of Bingarn Rd							3 370 20.4
	W of Doradeen Rd							3 530 22.7
Mooligunn Rd	E of Cherratta Rd			1 050 13.4	2 710 8.6		2 760 31.0	
Moore St	W of Jacoby St		90 18.7		110 14.2		90 23.9	
Munjina Rd	W of Great Northern Hwy NPS		80 40.7	130 46.2	270 47.3	290 50.7	110 44.0	120 43.8
Murdoch Dr	E of Demarchi Rd				4 120 8.2		4 360 9.1	
Mystery Rd	E of Maitland Rd			460 3.0	490 4.5		490 2.1	

N

Nanutarra Rd	E of North West Coastal Hwy NPS		130 27.3	130 28.8	130 24.8	130 27.8	160 38.6	200 47.7
	N of Nameless Valley Dr					30 34.6		390 32.5
	W of Nameless Valley Dr						220 45.4	
Nickol Rd	S of Bayview Rd		3 020 7.6		3 120 1.2		2 820 6.8	
North Circular Rd	E of Hamilton Rd			6 130 23.8				
North West Coastal Hwy	S of Nanutarra Rd			540 26.3	340 34.3		750 26.8	
	S of Onslow Rd NPS		360 35.6	380 37.8	400 33.6	410 36.3	440 41.0	500 45.1
	N of Onslow Mount Stuart Rd						320 31.9	
	S of Yarraloola Rd				410 56.8		670 31.8	
	N of Pannawonica Rd			430 45.5	440 73.9		790 58.0	770 30.8
	S of Madigan Rd NPS			740 32.2	790 31.1	850 32.0	880 32.3	920 34.6
	S of Point Samson Roebourne Rd NPS		2 510 24.7	2 080 25.1	2 200 24.4		2 550 18.5	2 690 19.4
	S of Harding St				2 270 43.6			
	E of Roebourne Wittenoom Rd							850 33.6
	W of Great Northern Hwy NPS		560 33.8	580 37.7			590 39.6	640 38.8

O

Onslow Rd	S of Twitchin Rd NPS		160 32.7	270 34.1			250 52.2	360 51.4
	N of Ansia Access Rd NPS		400 24.8	500 26.8			480 24.1	730 24.6

P

Pannawonica Rd	E of North West Coastal Hwy			230 44.4	240 61.7		260 33.9	
Paraburdoo Tom Price Rd	N of Paraburdoo NPS						120 34.2	130 39.8
	S of Karijini Dr NPS					670 31.1	650 32.7	660 33.5
	S of Tom Price NPS					1 220 30.5	1 080 33.6	1 100 35.7
Parker St	S of North Circular Rd		1 660 37.5		2 030 55.4		2 220 8.6	
Point Samson Roeborne Rd	S of Thalgu Ent				1 980 51.6			2 490 19.5
Point Samson Roebourne Rd	W of Honeymoon Rd		940 43.5		880 6.7		940 13.3	
	N of Cape Lambert Rd				1 180 68.8		1 130 13.9	
	N of Wickham Dr		1 690 12.6		1 600 51.3		1 650 18.7	
	N of North West Coastal Hwy NPS					2 510 14.8	2 300 15.1	2 350 19.7

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Road Name	Location	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
	N of Cleaverville Rd	2 370 10.6		2 570 5.7		2 550 14.6	2 620 12.9
Powell Rd	W of Hamilton Rd		2 660 19.7				
	E of Hamilton Rd		2 130 16.2				
	W of Pinga St		1 780 12.3				

R

Ripon Hills Rd	E of Marble Bar Rd	NPS	140 81.2	130 81.3	130 78.6	120 79.2	110 78.4	120 79.0
Robinson St	E of Thompson St		530 6.8		660 2.3		540 9.1	

T

Tom Price Paraburdoo Rd	W of Rocklea Rd					840 15.9		
	N of Karijini Dr						1 270 21.3	

W

Wallwork Rd	S of Pinga St		10 820 3.9					
Warlu Rd	S of NWCH (Rtio Rail Crossing)		230 57.3					
Warrirda Rd	W of Onslow Rd	NPS	230 41.2	220 38.0			450 44.5	
Wilson St	N of Great Northern Hwy							13 270 9.9
	S of Cooke Point Rd	NPS	10 830 12.2	11 260 12.0	11 570 12.3	11 840 13.4	12 020 14.4	12 020 15.5
	W of Cooke Point Rd							11 330 16.7
	E of Short St							4 590 18.5
	W of Short St		6 440 17.0				3 820 15.9	3 670 25.0