#### Go to Cyclist injuries Go to All road casualties

#### Cyclist numbers before and after helmet law in Australia

This three page submission presents evidence of the significant decline in cyclist numbers caused by mandatory helmet laws and the damaging effect on overall road safety. Cyclist numbers across Australia have risen sharply since 2000 and this has falsely been interpreted as evidence that the mandatory helmet regulations do not discourage cycling. The evidence presented on this page demonstrates that the increase is merely a recovery from the very low cyclist numbers experienced throughout the 1990s when many Australian adults and children were discouraged from bike riding. Current cycling levels still lag behind pre-law numbers with a consequent impact on road safety. You are urged to closely examine the data within Helmet law impact on total road casualties to understand how many discouraged cyclists

instead drive their cars, increasing the accident/injury risk to all other road users including motorists, motorcyclists, pedestrians and cyclists, as well as the detrimental impact on cyclist safety.

Data below extracted from Day to Day Travel in Australia 1985/1986 (p18, 19)

Table 2.1d		number						
				Age gro	up (year	s)		
	9–15	16	17	18	19	20	21	22
Males								
Walk	7361	1267	1141	758	574	503	438	437
Bicycle	6332	1276	814	357	224	270	94	31
Bus	3242	591	465	279	156	157	103	53
Train	510	263	157	238	178	186	113	73
Tram	133	42	55	67	17	33	28	16
Taxi	87	23	63	24	19	35	23	11
Ferry	54	14	21	-8	0	13	11	4
M/Bike	33	10	64	99	98	184	180	192
C/driver	105	65	831	2051	2348	2624	2876	2763
C/pass	13245	1456	1348	941	723	624	481	520
Truck	47	4	0	56	21	20	38	58
Semi-tr	0	ō	ō	0	0	0	0	0
Other	62	10	ō	ō	7	16	8	9
Total	31210	5021	4957	4878	4365	4665	4395	4167
# males (000)	962	157	143	132	115	116	121	107
Females								
Walk	7764	1190	1273	935	906	713	810	750
Bicycle	2483	377	136	106	42	79	53	48
Bus	2843	571	514	374	228	186	238	166
Train	474	233	195	189	212	191	189	138
Tram	189	101	93	41	62	91	40	25
Taxi	32	25	86	68	53	38	57	43
Ferry	4	-4	0	0	17	0	2	4
M/Bike	16	4	20	ŏ	30	11	7	6
C/driver	189	62	478	1225	1517	1849	1841	2248
C/pass	13607	1958	1687	1572	1160	1354	1325	926
Truck	0	6	0	12	3	0	0	0
Semi-tr	ō	ō	ō	-0	ō	ō	õ	ō
Other	52	12	õ	6	õ	õ	4	9
Total	27653	4542	4483	4528	4229	4511	4565	4362
<pre># females     ('000)</pre>	913	138	136	124	105	112	111	110
Courses		Dave to						

Source: Survey of Day-to-Day Travel in Australia 1984-85 (continued)

### Table 2.1d. Total number of trips (in '00) per day in Australia, classified by mode of travel, sex and <u>age group</u>.

		-			-			
	23	24	25	<b>Age gr</b> 26-29	oup (yea: 30-59	<b>rs)</b> 60-64	65+	Total
Males								
Walk Bicycle Bus Train Tram Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr 'Other Total	640 234 63 13 47 0 255 3155 592 55 0 3 5130	567 83 58 116 41 31 14 174 3206 604 101 0 37 5033	634 117 113 132 15 0 134 2882 526 120 0 25 4710	2341 528 423 374 92 79 <b>35</b> 407 13301 1677 269 16 75 19619	11343 1218 1763 1975 337 522 139 1148 72762 6407 1849 64 514 100042	1434 210 254 228 77 66 7580 748 64 0 30 10703	3131 167 510 187 76 72 38 43 8332 1073 1073 1073 17 13661	32570 11955 8240 4793 1039 1117 359 3028 124881 30966 2714 80 814 222556
# males	125	114	117	457	2582	347	601	6197
Females								
Walk Bicycle Bus Train Tam Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr Other Total # females	568 109 134 141 15 55 0 0 1966 1327 0 1327 0 1327 1327 113	812 47 143 161 38 44 42 2045 1130 1 0 2 4468 113	876 33 94 133 42 27 7 7 2050 1163 24 0 4 4458 118	2702 218 448 270 113 128 23 20 10511 4155 0 0 62 18650 501	11194 689 2080 1260 376 481 93 73 52918 18101 18 0 163 87445 2513	1557 41 494 131 30 93 8 8 2432 2550 1 0 7 7352 357	3385 43 1313 349 106 221 14 0 3287 4645 0 0 9 13372 828	35435 4504 9825 4264 1361 1450 179 244 84616 56660 65 0 329 198934 6291
('000) Source: Su	rvey of	Day-to-	Day Trav	el in A	ustralia	1985–86		

The data above suggests there were 1,195,500 bicycle trips per day among Australian male cyclists in 1985/86, and 450,400 by female cyclists. **Total = 1,645,900** cyclist trips per day in Australia in 1985/86 (one year).

This data includes 881,500 children aged 9-15

There were 1,141,800 children aged 9-17

1,645,900 - 881,500 = **764,400** aged 16+ 1,645,900 - 1,141,800 = **504,100** aged 18+

	cle ownership and use Bicycles/Person	Rank	% who cycle	Rank
	Dicycles/1 cr30h	Kuik	every day	Ruin
Sydney	0.29	7	1.0%	6
Melbourne	0.37	6	2.1%	4
Brisbane	0.45	4	3.0%	3
Perth	0.59	3	4.0%	1
Adelaide	0.42	5	1.7%	5
Hobart	0.61	2	Not Provided	
Canberra	0.65	1	3.1%	2

Cycling Down Under: A Comparative Analysis of Bicycling Trends and Policies in Sydney and Melbourne by John Pucher, Jan Garrard and Stephen Greaves (Journal of Transport Geography, Vol. 18, 2010) provides the following data:

Bicycles/person - 0.29 = 1,194,566 bicycles owned in 2004 % who cycle every day - 1% = 42,321 cyclists every day

Sydney 2004 population - 4,232,100

**Melbourne** 2004 population - 3,600,100Bicycles/person - 0.37 = 1,329,258 bicycles owned in 2004 % who cycle every day - 2.1% = 75,602 cyclists every day

Brisbane 2004 population - 1,774,900

Bicycles/person - 0.45 = 818,910 bicycles owned in 2004 % who cycle every day - 3% = 53,247 cyclists every day

**Perth** 2004 population - 1,457,600 Bicycles/person - 0.59 = 896,033 bicycles owned in 2004 % who cycle every day - 4% = **58,304** cyclists every day

Adelaide 2004 population - 1,124,300

Bicycles/person - 0.42 = 481,236 bicycles owned in 2004 % who cycle every day - 1.7% = 19,113 cyclists every day

**Canberra** 2004 population - 323,600 Bicycles/person - 0.65 = 217,165 bicycles owned in 2004 % who cycle every day - 3.1% = 10,032 cyclists every day

Hobart 2004 population 202,100

Bicycles/person - 0.61 = 125,355 bicycles owned in 2004 % who cycle every day - n/a (hypothetical 3.1 as per Canberra) = **6,265** cyclist every day

Total of all Australian capitals (except Darwin) = 264,884 people who cycled every day in 2004.

**p4** - "While these bicycle mode shares may seem low, the absolute numbers of daily work trips by bicycle in 2006 are noteworthy: 18,909 in Melbourne and 10,887 in Sydney."

p5 - "In 2008, 7,896 cyclists used the key cycling routes into the Melbourne CBD (an increase of 76% from 2005) while in Sydney 3,330 cyclists used the key cycling routes into the Sydney CBD (an increase of 38% from 2005) (Australian Bicycle Council 2010).
p8 - "According to the SHTS, the bicycle share of all trips in Sydney in 2001 was higher on weekends than on weekdays (0.8% vs 0.6%), a difference that had grown even wider by 2005 (1.1% vs 0.7%) (Transport Data Centre, 2007). In contrast to Sydney, the bicycle share of trips in Melbourne in 1999 was lower on weekends than on weekdays, although not by much (1.1% vs 1.2%) (VicRoads, 2004).
Population source: 2006 Year Book Australia

Data below extracted from Day to Day Travel in Australia 1985/1986 (p131)

Ca	nberra	Sydney	elbourn	e		Perth	lobart		
Males			B	risbane 				arwin	Total
Walk Bicycle Bus Train Tram Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr Other Total	537 194 213 1 2 29 19 0 29 1987 593 37 1 28 3642	8966 1117 3098 2462 0 346 177 408 25631 5717 701 18 86 48727	6888 2038 1227 1260 879 128 3 208 22558 5270 299 26 99 40884	2098 667 619 537 54 165 36 219 8396 2273 241 3 70 15381	2056 758 567 129 355 58 0 147 8602 2868 63 4 31 14319	1694 908 481 99 0 32 6 195 8688 1975 192 12 47 14329	423 33 201 0 27 1 16 1388 362 25 0 5 2481	111 69 22 0 3 16 657 123 8 0 5 1018	22774 5784 6429 971 777 226 1238 77908 18182 1567 65 372 140780
# males ('000)	91	1356	1154	431	394	378	71	26	3902
Females Walk Bicycle Bus Train Tram Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr Other Total # females	553 108 195 0 0 10 0 0 1541 979 0 0 5 3392 92	9205 355 3405 2161 13 402 101 32 16420 11660 3 0 44 43800 1412	7938 668 1525 1265 222 3 15 15056 10080 12 0 63 38110 1199	2443 197 806 417 13 118 19 16 5663 4202 5 0 42 13939 450	2498 377 1021 138 31 62 0 8 5541 3929 0 0 2 13607 420	1982 415 605 115 0 34 15 18 6456 4048 10 0 14 13711 395	463 17 166 0 18 3 6 948 671 0 2 2292 74	112 50 26 1 0 5 4 1 375 221 1 0 2 798 2 24	25194 2187 7748 4094 1321 870 144 95 52000 35790 32 0 173 129648 4067
# Temales (`000)	92	1412	1199	450	420	290	/4	24	4007

Source: Survey of Day-to-Day Travel in Australia 1985-86

The data above suggests that in 1985/86, the total number of daily bicycle trips in all capital cities excluding Darwin was **785,200**.
 In 2004, total daily cyclists in all Australian capital cities excluding Darwin was **264,884**, based on Cycling Down Under: A Comparative Analysis of Bicycling Trends and Policies in Sydney and

Melbourne (see above).

Bicycle Victoria: In Melbourne there are: 1.2 million bicycles (of which 70,000 are used each day on average) (2003/04)

008/09 Household Tra	vel Survey S	Summary Re	eport, 2010	Release						TRANSPORT DATA CENTRE
Table 4.3.1: Number of tr	ips by mode <sup>1</sup> (	average week	(day)							
Mode	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	AAGR %	4.3
									01/02-08/09	Mode of Travel
					'000					
Average weekday										<ol> <li>Mode figures are based on unlinked trip legs. Ferry, bicycle, taxi and other mode</li> </ol>
Vehicle driver	7,686	7,939	8,106	8,114	7,952	7,992	8,080	8,015	0.6%	estimates are subject to high standard em due to the small sample sizes for these
Vehicle passenger	3,462	3,465	3,483	3,559	3,470	3,550	3,642	3,635	0.7%	modes.
Total vehicle	11,148	11,405	11,589	11,674	11,422	11,542	11,722	11,650	0.6%	
Train	775	775	779	768	794	815	863	890	2.0%	
Public Bus	558	561	555	562	582	579	592	598	1.0%	
Private Bus	335	330	331	320	342	344	370	387	2.1%	
Ferry	37	43	47	47	38	37	38	39	0.7%	
Fotal public transport	1,706	1,710	1,712	1,696	1,756	1,775	1,863	1,915	1.7%	
Walk only	2,741	2,825	2,905	2,870	2,973	2,964	3,035	3,118	1.9%	
Bicycle	101	115	124	113	115	114	119	106	0.6%	
faxi	115	118	119	124	117	121	113	127	1.4%	
Other	83	97	112	98	110	112	135	134	7.0%	
Total	15,895	16,270	16.561	16,574	16,493	16,628	16,987	17,051	1.0%	

The 2008/09 Sydney Household Travel Survey (p26) shows there were 106,000 bike trips on average weekdays in 2008/09.

This compares with 147,200 daily bike trips in Sydney in 1985/86 - see p131 above of Day to Day Travel in Australia 1985/1986.

The 2008/09 daily count is down 28% on 1985/86. The 2008/09 Sydney Housing Travel Survey figure is based on unlinked trip legs so does not represent the actual number of bike riders, just their cumulative number of trip legs. p33 suggests there were 105,901 bike trips with the majority less than 5km.

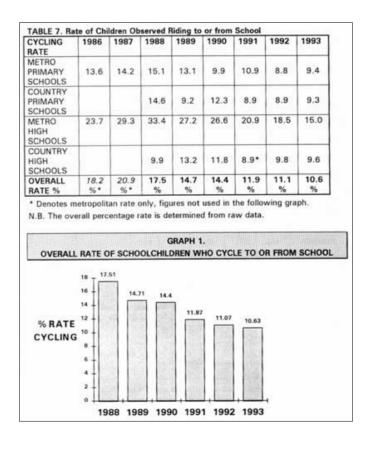
	1971 <sup>a</sup>	(N=4284	)	1981 (I	N=4936)		1991 (	N=662)		1999-2	2003 (N=8	316)
	n	%	Odds ratio	n	%	Odds ratio (95% confidence interval)	n	%	Odds ratio (95% confidence interval)	n	%	Odds ratio (95% confidence interval
Age 5-9												
Walk to school	1217	57.7	1.00	1047	44.5	0.59 (0.51, 0.68)*	119	35.3	0.40 (0.30, 0.54)*	107	25.6	0.25 (0.18, 0.34)*
Walk from school	1317	62.6	1.00	1133	48.2	0.56 (0.48, 0.65)*	134	39.8	0.39 (0.29, 0.53)*	123	29.4	0.25 (0.19, 0.33)*
Car to school	481	22.8	1.00	878	37.3	2.01 (1.71, 2.37)*	183	53.9	3.96 (2.94, 5.33)*	279	66.6	6.76 (5.05, 9.05)*
Car from school	403	19.1	1.00	748	31.8	1.97 (1.66, 2.34)*	157	46.5	3.67 (2.72, 4.97)*	265	63.4	7.32 (5.49, 9.77)*
Bus to school	388	18.4	1.00	392	16.6	0.89 (0.73, 1.08)	31	9.1	0.44 (0.29, 0.69)*	26	6.2	0.29 (0.17, 0.50)*
Bus from school	360	17.1	1.00	428	18.2	1.08 (0.89, 1.32)	41	12.2	0.67 (0.45, 1.02)	23	5.6	0.29 (0.17, 0.48)*
Train to school	9	0.4		11	0.5		0	0		2	0.5	
Train from school	11	0.5		13	0.5		0	0		2	0.5	
Other to school	14	0.7		27	1.1		6	1.7		5	1.1	
Other from school	14	0.7		30	1.3		5	1.5		5	1.1	
Age 10-14												
Walk to school	961	44.2	1.00	1018	39.4	0.82 (0.72, 0.94)*	107	33.1	0.63 (0.47, 0.84)*	84	21.1	0.34 (0.24, 0.48)*
Walk from school	1074	49.5	1.00	1136	44.1	0.81 (0.71, 0.92)*	120	37.9	0.62 (0.47, 0.82)*	130	32.7	0.50 (0.37, 0.66)*
Car to school	266	12.2	1.00	479	18.6	1.64 (1.36, 1.97)*	106	32.7	3.50 (2.56, 4.78)*	190	47.8	6.59 (4.98, 8.72)*
Car from school	146	6.7	1.00	288	11.1	1.75 (1.39, 2.22)*	77	24.3	4.46 (3.15, 6.30)*	126	31.8	6.48 (4.72, 8.89)*
Bus to school	690	31.7	1.00	808	31.3	0.98 (0.85, 1.13)	73	22.6	0.63 (0.47, 0.85)*	78	19.8	0.53 (0.39, 0.73)*
Bus from school	687	31.7	1.00	855	33.3	1.07 (0.93, 1.23)	87	27.3	0.81 (0.61, 1.08)	99	25.0	0.72 (0.54, 0.95)*
Train to school	179	8.3		173	6.7		29	8.9		34	8.6	
Train from school	188	8.6		196	7.6		28	8.9		33	8.4	
Other to school	79	3.6		103	4.0		9	2.7		11	2.7	
Other from school	76	3.5		100	3.9		5	1.6		9	2.1	

Trends in Australian children traveling to school 1971-2003: burning petrol or carbohydrates? (final page) shows the decline in walking and cycling to school by children across Australia aged 5-9 and 10-14 from 1971 to 2003 (other = cycling) ). The proportion being driven to and from school has more than tripled among 5-9yo (av 20.95% to av 65%) and quadrupled among 10-14 (av 9.45% to av 39.8%). The document states:

Data from the UK on commuting to and from school in children aged 5-10 showed a decrease from 1975/76 to 1989/94 in walking from 72% to 62% and an increase in car use from 16% to 28% (Black et al., 2001). The decrease in active commuting to school might be less evident in countries that have a bicycle friendly culture. For example, a representative sample of Danish primary school children showed that in 1997/98 24% walked to school, 39% cycled, and 25% took the car (Cooper et al., 2005).

	ACT	NSW	NT	QLD	SA	TAS	VIC	WA
Method of Travel				%	)			
Bicycle	7.7	2.5	3.3	4.0	3.8	1.3	5.0	5.
Boat/Ferry	0.8	0.5	2.8	0.5	0.3	0.7	0.4	0.
Bus	25.3	32.2	40.2	20.9	21.2	40.3	17.6	24.
Car	46.6	37.7	41.1	56.0	50.1	38.6	49.5	45.
Skateboard/Scooter/Rollerblade	0.8	1.3	1.4	1.0	1.7	1.3	2.0	1.
Frain/Tram	0.2	4.1	0.5	3.3	1.6	0.3	3.9	2.
Walk	18.3	21.3	9.8	13.9	21.0	17.1	21.2	21.
Other	0.4	0.4	0.9	0.4	0.4	0.5	0.4	0.

ABS CensusAtSchool Australia 2010: Percentage of students using each method of travel by state/territory As an example of the long-term decline in child cycling across Australia, the WA percentage above of 5.2% should be compared with the extract below from *Bicyclist Helmet Wearing in Western Australia: A 1993 Review - Heathcote, B. (1993), Traffic Board of Western Australia.* 

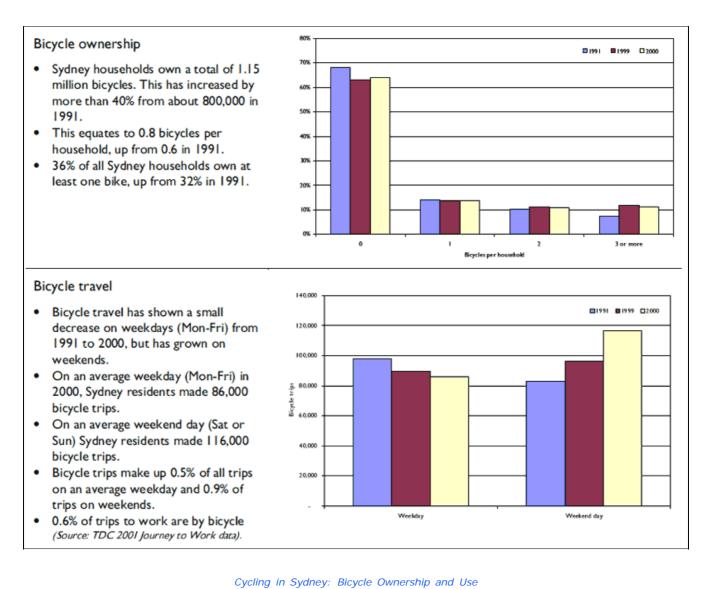


## PARTICIPANTS, Selected Sport and Physical Activities—Frequency(a)

• • • • • • • • • • • • • • •	•••••	•••••	•••••	•••••	• • • • •
	1–6 times	7–12 times	13–26 times	More than 26 times	Total
port and physical activities	'000'	000	'000'	'000	'000'
	•••••	•••••	•••••	•••••	•••••
Aerobics/fitness	140.0	124.8	186.4	928.1	1 379.2
Air sports	19.9	**	**	*17.8	54.4
Aquarobics	19.0	*16.7	25.6	42.3	103.5
Archery	**	**	**	*8.4	26.6
Athletics/track and field	*18.8	**	21.0	43.2	86.8
Australian Rules football	28.4	22.1	35.1	75.7	161.3
Badminton	*12.9	*6.6	18.9	35.1	73.5
Baseball	**	**	23.5	32.7	63.0
Basketball	37.1	*17.2	54.5	126.2	234.9
Billiards/snooker/pool	80.0	92.4	64.1	136.6	373.1
Boxing	••	**	**	31.1	38.7
Canoeing/kayaking	47.6	**	**	**	66.7
Carpet bowls	*7.2	**	*7.2	28.8	47.0
Cricket (indoor)	*16.1	20.3	32.7	43.5	112.7
Cricket (outdoor)	71.0	37.6	45.4	106.4	260.4
Cycling	91.4	89.4	90.2	354.9	626.0
Dancing	*13.4	*6.5	*13.0	74.8	107.6
Darts	38.8	27.0	20.4	65.3	151.4
Fishing	244.2	173.5	114.1	109.7	641.5
Golf	335.7	217.2	179.3	384.0	1 116.2

ABS Participation in Sport and Physical Activities 1997-98 - (p16)

Participation in the 12 months prior to interview.



This data suggests an average 86,000 weekday bicycle trips and an average 116,000 weekend daily bicycle trips in Sydney in 2000. This equates to an average 430,000 bicycle trips during the working week plus an average 232,000 bicycle trips during weekends = 662,000.

This results in an average 94,571 bicycle trips per day in Sydney in 2000.

In 1985/86 (see p131 above), there were an average 147,200 daily bicycle trips in Sydney.

This is a reduction of 35%.

Cycling in Sydney published by the NSW Government asserts that in 2005 "Sydney residents made over 120,000 bike trips on an average weekday and almost 160,000 bike trips on an average weekend." NSW BikePlan estimates that 159,000 trips were made by bike on an average weekday in Greater Sydney in 2010. Note that the 1985/86 estimate of 147,200 daily bicycle trips in Sydney excludes cyclists aged less than nine.

MAIN F	ORM O	F TRAN	SPORT	USED	ON U	SUAL T		o wor	K OR S	TUDY—Maro	ch
<b>4.10</b> 2006											
	NSW	Vic.	Old	SA	WA	Tas.	NT(a)	ACT	Aust.		
stimate ('000)											
Private motor vehicle											
Car as driver	2 005.6	1 644.4	1 341.5	497.8	701.8	148.2	59.9	127.6	6 526.9		
Car as passenger	117.7	68.9	99.8	24.0	31.6	11.4	*2.5	10.7	366.7		
Truck as driver Truck as passenger	51.5 *1.7	49.4 *2.0	18.4 *7.7	12.7 *2.7	14.0	7.2	*1.9	*2.4	157.6 14.2		
Van as driver	30.1	21.1	18.5	*6.5	7.9	*2.1	*0.7	*0.4	87.1		
Van as passenger	*0.8	*2.9	*1.5	_	*3.6	*1.1	*0.7	_	10.6		
Motorbike/scooter	33.7	*3.2	21.5	*5.2	7.2	*1.8	*1.4	*2.8	76.9		
Total	2 241.1	1 792.0	1 508.9	549.0	766.1	171.8	67.1	143.9	7 239.9		
Public transport											
Train Bus	366.9 170.8	208.1 38.2	66.5 106.5	15.4 57.3	34.4 39.9	12.1		12.0	691.5 444.4		
Bus Tram/Light rail	1/0.8	38.2 62.6	106.5	*1.3	39.9	12.1	5.6	13.9	444.4 64.0		
Ferry/boat	17.3		*5.7	_	_	_	_	_	23.0		
Total	555.0	309.0	178.8	74.1	74.3	12.1	5.6	13.9	1 222.8		
Taxi	*3.2	_	*1.1	*0.8	*0.8	_	_	*0.4	*6.3		
Bicycle	23.6	47.7	31.1	14.7	9.3	*1.8	*4.3	8.8	141.2		
Walk	143.9	98.3	56.1	23.3	23.9	16.8	5.4	8.4	375.9		
Other	14.5	*8.1	16.3	*1.0	9.8	*1.2	*0.4	*0.4	51.6		
Total persons(b)	2 981.3	2 255.0	1 792.4	662.7	884.2	203.6	00.0		9 037.8		
		2 20010	1102.4	002.7	884.2	203.6	82.8	175.7	9 037.8		
4 14 FORMS	OF TR/	ANSPO	RT USE		DAY-TO	- DAY T	RIP O	THER '		D WORK OR	
4 14 FORMS		ANSPO	RT USE		DAY-TO	- DAY T		THER '		D WORK OR	
FORMS 5TUDY	OF TR/ — March 	ANSPO 2006 <i>Vic.</i>	RT USE	D IN D  SA	0AY-TO	- DAY T	RIP O 	THER	THAN TO Aust.	D WORK OR	
4.14 FORMS	OF TR/ — March	ANSPO 2006 <i>Vic.</i>	RT USE	D IN D  SA	0AY-TO	- DAY T	RIP O 	THER	THAN TO Aust.	D WORK OR	
4.14 FORMS	OF TR/ — March 	ANSPO 2006 <i>Vic.</i>	RT USE	D IN D  SA	0AY-TO	- DAY T	RIP O 	THER	THAN TO Aust.	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9	RT USE	D IN C  SA 669.0 78.5	ОАҮ-ТО WA 915.2 93.1	- DAY T	RIP O  NT(a) 78.7 7.3	THER	THAN TO Aust. 8 856.6 1 402.3	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1	RT USE	D IN C 	915.2 93.1 20.9	- DAY T Tas. 206.3 15.3 6.2	78.7 7.3 *4.1	THER	THAN T( <i>Aust.</i> 8 856.6 1 402.3 299.2	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8	RT USE Qld 1 796.8 228.1 69.0 84.4	D IN C SA 669.0 78.5 15.5 32.3	915.2 93.1 20.9 56.3	- DAY T 	RIP O  NT(a) 78.7 7.3 *4.1 13.8	THER	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1	RT USE	D IN C 	915.2 93.1 20.9	- DAY T Tas. 206.3 15.3 6.2	78.7 7.3 *4.1	THER	THAN T( <i>Aust.</i> 8 856.6 1 402.3 299.2	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk	OF TR/ 	ANSPO 2006 Vic. 2138.9 397.9 53.1 146.8 492.9 25.8	RT USE Qld 1796.8 228.1 69.0 84.4 241.8 17.6	669.0 78.5 15.5 32.3 95.9	915.2 93.1 20.9 56.3 130.2	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9	78.7 78.7 7.3 *4.1 13.8 14.8	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c)	OF TR/ 	ANSPO 2006 Vic. 2138.9 397.9 53.1 146.8 492.9 25.8	RT USE Qld 1796.8 228.1 69.0 84.4 241.8 17.6	669.0 78.5 15.5 32.3 95.9 8.2	915.2 93.1 20.9 56.3 130.2 *5.4	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5	78.7 7.3 *4.1 13.8 14.8 *0.9	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2	Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%)	OF TR/ March NSW 2 879.9 561.5 126.1 100.7 452.6 32.9 3 193.0	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 2 420.2	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b>	D IN C SA 669.0 78.5 15.5 32.3 95.9 8.2 713.8	915.2 93.1 20.9 56.3 130.2 *5.4 <b>955.4</b>	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b>	78.7 7.3 *4.1 13.8 14.8 *0.9 86.1	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%) Private motor vehicle	OF TR/ 	ANSPO 2006 Vic. 2138.9 397.9 53.1 146.8 492.9 25.8 2420.2 88.4	RT USE Qld 1796.8 228.1 69.0 84.4 241.8 17.6 1914.3 93.9	D IN C SA 6669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 95.8	- DAY T 	78.7 7.3 *4.1 13.8 14.8 *0.9 86.1 91.5	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 91.5	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%)	OF TR/ March NSW 2 879.9 561.5 126.1 100.7 452.6 32.9 3 193.0	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 2 420.2	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b>	D IN C SA 669.0 78.5 15.5 32.3 95.9 8.2 713.8	915.2 93.1 20.9 56.3 130.2 *5.4 <b>955.4</b>	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b>	78.7 7.3 *4.1 13.8 14.8 *0.9 86.1	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%) Private motor vehicle Public transport Taxi Bicycle	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 <b>2 420.2</b> <b>88.4</b> 16.4 2.2 6.1	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b> 93.9 11.9 3.6 4.4	D IN C SA 669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 95.8 9.7	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b> 95.1 7.0	78.7 78.7 7.3 *4.1 13.8 14.8 *0.9 86.1 91.5 8.4	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 91.5 14.5 3.1 4.8	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%) Private motor vehicle Public transport Taxi Bicycle Walk	OF TR/ 	ANSPO 2006 Vic. 2138.9 397.9 53.1 146.8 492.9 25.8 2420.2 88.4 16.4 2.2 6.1 20.4	RT USE Qld 1796.8 228.1 69.0 84.4 241.8 17.6 1914.3 93.9 11.9 3.6 4.4 12.6	D IN C SA 669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0 2.2 4.5 13.4	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 95.8 9.7 2.2 5.9 13.6	- DAY T 	RIP O  NT(a) 78.7 7.3 *4.1 13.8 14.8 *0.9 86.1 91.5 8.4 *4.8 16.0 17.2	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6 22.0	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 91.5 14.5 3.1 4.8 15.5	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) Private motor vehicle Public transport Taxi Bicycle	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 <b>2 420.2</b> <b>88.4</b> 16.4 2.2 6.1	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b> 93.9 11.9 3.6 4.4	C IN C SA 6669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0 2.2 4.5	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 955.4 95.8 9.7 2.2 5.9	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b> 95.1 7.0 2.9 4.7	RIP O  NT(a) 78.7 7.3 *4.1 13.8 14.8 *0.9 86.1 91.5 8.4 *4.8 16.0	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 9 682.5 91.5 14.5 3.1 4.8 15.5 1.0	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) Private motor vehicle Public transport Taxi Bicycle Walk Other Taxi Dicycle Walk Other	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 2 420.2 88.4 16.4 2.2 6.1 20.4 1.1	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b> 93.9 11.9 3.6 4.4 12.6 0.9	C IN C SA 6669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0 2.2 4.5 13.4 1.1	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 955.4 95.8 9.7 2.2 5.9 13.6 *0.6	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b> 95.1 7.0 2.9 4.7 16.1 *1.6	RIP O           NT(a)           78.7           7.3           *4.1           13.8           14.8           *0.9           86.1           91.5           8.4           *4.8           16.0           17.2           *1.1	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6 22.0 *0.7	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 9 682.5 91.5 14.5 3.1 4.8 15.5 1.0	D WORK OR	
FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) roportion (%) Private motor vehicle Public transport Taxi Bicycle Walk Other estimate is subject to sa	OF TR/ 	ANSPO 2006 Vic. 2 138.9 397.9 53.1 146.8 492.9 25.8 2 420.2 88.4 16.4 2.2 6.1 20.4 1.1	RT USE Qld 1 796.8 228.1 69.0 84.4 241.8 17.6 <b>1 914.3</b> 93.9 11.9 3.6 4.4 12.6 0.9	D IN C SA 669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0 2.2 4.5 13.4 1.1 (b) Onl	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 95.8 9.7 2.2 5.9 13.6 *0.6	- DAY T 	RIP O  NT(a) 78.7 7.3 *4.1 13.8 14.8 *0.9 86.1 91.5 8.4 *4.8 16.0 17.2 *1.1 d 18 years	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6 22.0 *0.7 and over e	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 9 682.5 91.5 14.5 3.1 4.8 15.5 1.0	D WORK OR	
4.14 FORMS STUDY- stimate ('000) Private motor vehicle Public transport Taxi Bicycle Walk Other Total persons(b)(c) Private motor vehicle Public transport Taxi Bicycle Walk Other	OF TR/ 	ANSPO 2006 Vic. 2138.9 397.9 53.1 146.8 492.9 25.8 2420.2 88.4 16.4 2.2 6.1 20.4 1.1	RT USE <i>Qld</i> 1 796.8 228.1 69.0 84.4 241.8 17.6 1 914.3 93.9 11.9 3.6 4.4 12.6 0.9 h for	D IN C SA 6669.0 78.5 15.5 32.3 95.9 8.2 713.8 93.7 11.0 2.2 4.5 13.4 1.1 (b) Onlywor	915.2 93.1 20.9 56.3 130.2 *5.4 955.4 955.4 95.8 9.7 2.2 5.9 13.6 *0.6	- DAY T Tas. 206.3 15.3 6.2 10.2 34.9 *3.5 <b>216.9</b> 95.1 7.0 2.9 4.7 16.1 *1.6	RIP O 	THER ACT 171.6 20.7 4.2 17.6 40.1 *1.2 182.8 93.9 11.3 2.3 9.6 22.0 *0.7 and over evey.	THAN TO Aust. 8 856.6 1 402.3 299.2 462.1 1 503.3 95.6 9 682.5 91.5 14.5 3.1 4.8 15.5 1.0	D WORK OR	

Data above extracted from *ABS bulletin: Environmental issues: people's views and practices (p67 and p70)* (p67) Forms of transport used on usual trip to work or study / March 2006 - Bicycles 141,200 across Australia (p70) Forms of transport used in day-to-day trips other than to work or study / March 2006 - Bicycles 462,100 across Australia This data represents cyclists aged 18 and over and travel modes normally used, rather than daily bicycle use. Table 4.10 shows bicycles were the main form of transport on usual trips to work or study for 141,200 people in March 2006. This should be compared with Day to Day Travel in Australia 1985/1986 (p160) which shows 330,500 daily bicycle trips for work or

education (see table below).

Table 5.1d.					ach mode, tripmaker		purpose	of the trip.
Males	Going	to work Educa	Shopp:	ing Going		p/drop-o Busin		3 /dental
Walk Bicycle Bus Train Tram Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr Other Total	4712 1057 1160 1479 252 201 96 895 28002 3279 1692 54 311 43190	2861 1441 1991 465 136 20 23 111 1122 2040 2 0 5 10216	5602 1171 506 235 116 38 31 181 14392 2625 62 3 33 24995	11879 5335 3686 2097 368 511 146 1289 47209 12294 609 10 218 85652	439 112 55 62 34 33 0 57 10392 1556 42 3 0 12785	229 6 20 6 27 3 12 1371 100 200 10 35 2038	202 29 51 20 16 7 20 693 284 3 0 1 1332	
<pre># males   ( '000) Females</pre>	4042	871	2423	8084	1260	197	124	
Walk Bicycle Bus Train Taxi Ferry M/Bike C/driver C/pass Truck Semi-tr Other Total	3715 157 1062 998 283 173 32 53 10698 2965 22 0 18 20177	2954 650 1730 425 160 15 3 6 1275 2492 0 0 4 9713	7120 529 1330 344 199 118 15 28 13833 8194 4 0 19 31732	13261 1997 4375 1867 513 669 80 78 32840 2245 22 0 126 78272	1026 101 148 37 47 57 0 8 12047 3287 8 0 0 16768	131 10 28 3 9 0 4 343 83 0 0 627	292 14 103 29 15 30 0 11 866 606 0 6 1972	
# females ('000)	1807	837	3042	7364	1658	60	187	

Source: Survey of Day-to-Day Travel in Australia 1984-85

Table 1.2 Recreational cyclists 2001 2002 2003 2004 2005 2006 2007 2008 2009 2000 1,646,800 -1% 1,682,600 1,928,100 21% 1,901,400 1,591,100 1,438,200 1,413,900 1,658,400 1,480,800 For any gr egular pi ed 15 ye y at least three times per week on average d sport over a 12-month period prior to inte

Data above extracted from Australian Bicycle Council

This data represents cyclists aged 15 and over who participated in cycling over a 12 month period prior to interview. It does not represent daily bicycle use.

PARTICIPATION IN SELECTED SPORTS AND		activities-		RT AND PHYSICAL RECREATION(a),
PHYSICAL RECREATION		P	articipation	
ACTIVITIES continued		Number	rate	
		'000'	%	
			• • • • • • •	
	M	ALES		
	Walking for exercise	1 298.6	16.5	
	Aerobics/fitness	744.5	9.4	
	Golf	695.6	8.8	
	Cycling	691.0	8.8	
	Swimming	633.3	8.0	
	Running	425.9	5.4	
	Tennis	389.5	4.9	
	Soccer (Outdoor)	311.5	3.9	
	Cricket (Outdoor)	309.7	3.9	
	Bushwalking	248.1	3.1	
	FEN	MALES	• • • • • • •	
	Walking for exercise	2 659.7	32.8	
	Aerobics/fitness	1 271.5	15.7	
	Swimming	814.0	10.0	
	Netball	387.5	4.8	
	Tennis	379.4	4.7	
	Cycling	320.7	3.9	
	Bush walking	271.4	3.3	
	Running	255.4	3.1	
	Yoga	248.7	3.1	
	Golf	179.9	2.2	
	•••••	• • • • • • • • • • •	• • • • • • •	
	<ul><li>(a) Relates to persons</li></ul>			
	participated in phys			
	exercise or sport as		e 12	
	months prior to inte			
	Source: Participation in S			
	Recreation, Aust	tralia, 2005-06 (	cat. no.	
	4177.0).			

Data above extracted from ABS bulletin Sport and Recreation: A Statistical Overview. Australia (p19)

This data suggests that 691,000 males and 320,700 females aged 15+ participated in cycling. **Total = 1,011,700** adults who participated in cycling in Australia in 2005/06

This data represents cyclists aged 15 and over who participated in cycling over a 12 month period prior to interview.

Transport mode	Employed usual residents (per cent)	Employed usual residents (number)
Car	68.2	502 189
Private vehicle (includes cars)	69.8	514 223
Public transport	8.6	63 095
Bicycle	0.9	6 979
Walk only	2.2	16 433
Other	1.4	9 988
Mode unstated	1.7	12 577
Worked from home	3.6	26 705
Did not go to work	11.7	86 489
Total	100.0	736 489

Source: BITRE analysis of ABS 2006 Census DataPacks: basic community profile release 2 (Cat. 2069.0.30.001)

Extract above from Population growth, jobs growth and commuting flows in Perth (PDF 45,396kb) published in 2010 by the Bureau of Infrastructure, Transport and Regional Economics.

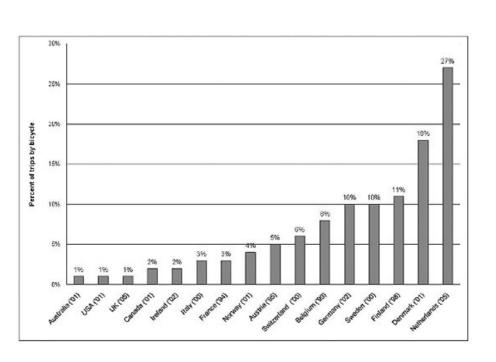
The 2010 Bicycle Traffic Count (Excel 459kb) published by the WA Department of Transport shows that each day during the year an average 8,192 cyclists used the 10 major cycle paths within the Perth Bicycle Network.

Table 4.1a	cla	Average number of trips per day per person, classified by mode of travel, sex and state or territory.											
	ACT South Australia New South Wales Western Australia												
			ictoria	-		Western Australia Tasmania							
				ueenslan	d		1						
			-	I			1	Ŧ	Mean				
Males													
Walk	0.59	0.60	0.54	0.43	0.51	0.40	0.48	0.39	0.53				
Bicycle	0.21	0.14	0.22	0.25	0.20	0.24	0.13	0.24	0.19				
Bus	0.24	0.18	0.10	0.09	0.12	0.10	0.15	0.07	0.13				
Train	0.00	0.12	0.08	0.06	0.02	0.02	0.00	0.00	0.08				
Tram	0.00	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.02				
Taxi	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.02				
Ferry	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.01				
M/Bike	0.03	0.05	0.03	0.06	0.07	0.05	0.02	0.18	0.05				
C/driver C/pass	2.19 0.65	1.94 0.48	1.97 0.49	2.00	2.10	2.30 0.56	2.11 0.52	2.48 0.48	2.02				
C/pass Truck	0.04	0.46	0.49	0.06	0.01	0.56	0.03	0.48	0.50				
Semi-tr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Other	0.03	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01				
Total	4.01	3.61	3.54	3.52	3.59	3.74	3.48	3.89	3.59				
# males ('000)	91	2179	1625	980	548	546	177	53	6197				
Females													
Walk	0.60	0.59	0.60	0.48	0.57	0.46	'0.65	0.51	0.56				
Bicycle	0.12	0.05	0.07	0.08	0.11	0.10	0.03	0.23	0.07				
Bus	0.21	0.20	0.12	0.12	0.20	0.13	0.12	0.07	0.16				
Train Tram	0.00	0.10	0.08	0.04	0.02	0.02	0.00	0.00	0.07				
Tram Taxi	0.00	0.00	0.08	0.03	0.02	0.00	0.02	0.02	0.02				
Ferry	0.00	0.03	0.00	0.00	0.02	0.00	0.02	0.02	0.00				
M/Bike	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00				
C/driver	1.67	1.27	1.32	1.34	1.33	1.71	1.37	1.46	1.35				
C/pass	1.06	0.86	0.87	0.94	0.96	1.01	0.87	1.03	0.90				
Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Semi-tr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Other	0.01	0.00	0.00	0.01	0.00	0.00	0.00 3.08	0.00 3.35	0.01 3.16				
Total	3.67	3.11	3.16	3.05	3.24	3.45	3.08	3.35	3.16				

Data above extracted from Day to Day Travel in Australia 1985/1986 (p120)

This data suggests that in 1985/86 there were an average 323,160 bicycle trips per day in Queensland (245,000 male, 78,160 female). This compares to the data below from Bicycle Usage Queensland by the Australian Bureau of Statistics, which suggests there were an average 67,900 daily cycling trips by persons aged 15 and over in Queensland in 2004. The 1985/86 daily number of bicycle trips was a bit more than the 2004 daily and weekly averages combined.

			More the	More than				Once a				in month	Total
	Daily		once a week		Once a week		fortnight		Once a month		and other(b)		cyclists
	1000	%	1000	%	'000'	%	1000	%	000	%	1000	%	1000
	• • • • •	• • • • • •		• • • • • •	• • • • •	• • • • •		• • • • •		• • • • • •		• • • • • •	
Statistical region Brisbane MSR													
Brisbane City Inner Ring	5.6	5.6	22.9	22.8	8.4	8.4	8.3	8.2	16.6	16.6	38.6	38.4	100.5
Brisbane City Outer Ring	4.5	4.3	19.4	18.8	9.5	9.1	7.5	7.3	17.5	16.9	45.1	43.6	103.4
South and East BSD Balance	*3.5	*4.7	11.5	15.5	8.3	11.1	4.7	6.4	8.0	10.7	38.5	51.7	74.5
North and West BSD Balance	6.1	7.3	10.9	13.1	11.8	14.2	9.3	11.2	14.0	16.8	31.2	37.4	83.3
Total	19.6	5.4	64.8	17.9	38.0	10.5	29.8	8.2	56.0	15.5	153.4	42.4	361.7
Balance of Queensland MSR													
South and East Moreton	14.5	12.3	16.8	14.3	11.8	10.0	11.0	9.3	15.9	13.5	47.6	40.5	117.5
North and West Moreton	5.5	6.4	12.6	14.6	12.0	14.0	8.4	9.8	13.7	16.0	33.6	39.2	85.7
Wide Bay-Burnett	*3.4	*6.7	14.5	29.0	8.0	16.0	*1.7	*3.5	4.8	9.6	17.7	35.3	50.2
Darling Downs-South West	4.5	10.6	7.8	18.5	6.0	14.2	*1.5	*3.5	6.8	16.1	15.7	37.2	42.2
Mackay-Fitzroy-Central West	6.2	8.6	12.2	16.9	6.4	8.9	5.8	8.1	9.4	13.1	31.9	44.4	71.9
Northern-North West	5.5	10.6	12.7	24.8	5.6	10.9	4.9	9.5	6.6	12.9	16.0	31.3	51.3
Far North	8.8	22.8	5.9	15.4	*3.4	*8.7	*1.6	*4.1	5.3	13.7	13.6	35.2	38.5
Total	48.3	10.6	82.5	18.0	53.1	11.6	34.9	7.6	62.5	13.7	176.1	38.5	457.4
Queensland	67.9	8.3	147.4	18.0	91.1	11.1	64.7	7.9	118.5	14.5	329.5	40.2	819.1
estimate has a relative standard error	or of 25%	6 to 50%	and should	be used	with caut	ion							
a) In addition to estimates with asteris	to to logi	onto biob	DCCc con	o of the	romaining	octimat	oe in thie	tablo ba	In an DEE H	otwoon 1	0% and 28	96 and ch	ould be



The diagram above shows the bicycle share of trips in Europe, North America and Australia (percent of total trips by bicycle) and is sourced to 2007 data from the Australian Bureau of Statistics and the statistical services of all countries involved. In New Zealand, which has mandatory all-age bicycle helmet laws, the percentage is 1.8% of all trips. Australian helmet law supporters claim cycling popularity is booming in Australia. This research is sourced to Making Cycling Irresistible (PDF 876kb) (*Pucher and Buehler, Transport Reviews, Vol. 28 2008*). The research

In the USA, much of the effort to improve cyclist safety has focused on increasing helmet use, if necessary by law, especially for children. Thus, it is important to emphasize that the much safer cycling in northern Europe is definitely not due to widespread use of safety helmets. On the contrary, in the Netherlands, with the safest cycling of any country, less than one percent of adult cyclists wear helmets, and even among children, only 3-5% wear helmets (Dutch Bicycling Council, 2006; Netherlands Ministry of Transport, 2006). The Dutch cycling experts and planners interviewed for this paper adamantly opposed the use of helmets, claiming that helmets discourage cycling by making it less convenient, less comfortable, and less fashionable. They also mention the possibility that helmets would make cycling more dangerous by giving cyclists a false sense of safety and thus encouraging riskier riding behavior. At the same time, helmets might reduce the

# The ongoing discouragement of cycling caused by Australia's mandatory bicycle helmet laws is evident in the failure of bike hire schemes launched in Melbourne and Brisbane in 2010, despite such schemes being a resounding success when introduced in many other cities around the world.

Below are pop-up snapshots of bike hire usage in Melbourne compared with other cities since November 2010:

consideration motorists give cyclists, since they might seem less vulnerable if wearing helmets (Walker, 2007).

notes:

Comparison of bike hire usage rates in different cities at midday on Saturday, November 6, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Sunday, November 7, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Monday, November 22, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Saturday, December 11, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Tuesday, December 14, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Saturday, December 18, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Saturday, December 18, 2010 (pop-up window) Comparison of bike hire usage rates in different cities on Wednesday, January 5, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Monday, January 24, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Tuesday, February 8, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Tuesday, March 1, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Wednesday, March 16, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Sunday, April 3, 2011 (pop-up window) Comparison of bike hire usage rates in different cities on Sunday, April 3, 2011 (pop-up window)

Despite having a bigger population than most cities, Melbourne has the worst bicycle hire rate in the world numerically and/or as a percentage of available bikes. This again demonstrates how mandatory bicycle helmets discourage public cycling participation, and is a reflection of the ongoing damage caused to Australian public health and safety since mandatory bicycle helmet laws were introduced in 1990.

The data above is relevant to a landmark national diet and physical activity survey of high school students in February 2011 by the Heart Foundation/Cancer Council of Australia which found 85% of students don't engage in sufficient activity to provide a health benefit, suggesting they may *"die at a younger age than their parents' generation for the first time in history"*. The data is also relevant to Helmet law impact on total road casualties.

Further evidence demonstrating the impact of helmet laws on cyclist numbers, concentrating on the West Australian experience, can be found here.