



Transport
for NSW

Quarterly Bulletin of Serious Injury Crash Data

Quarter ending June 2018 (preliminary)

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1 Acknowledgements

Transport for NSW wishes to thank the following –

- NSW Ministry of Health for providing access to information in the NSW Admitted Patient Data Collection, NSW Emergency Department Data Collection and the NSW Registry of Births, Deaths and Marriages – Death registrations.
- Centre for Health Record Linkage for conducting the record linkage.
- Aboriginal Health & Medical Research Council for supporting the ongoing data linkage project.
- Independent Hospital Pricing Authority for providing the International Classification of Diseases, 10th Revision, Australian Modification (ICD-10-AM) electronic code lists.
- The State Insurance Regulatory Authority (SIRA) for providing data on Compulsory Third Party insurance claims and the Lifetime Care and Support Authority for data on Lifetime Care participants.
- ACT Health Directorate for providing access to information in the ACT Admitted Patient Care and ACT Emergency Department Information System data collections.
- The Cause of Death Unit Record File (COD URF) is provided by the Australian Coordinating Registry for the COD URF on behalf of the NSW Registry of Births, Deaths and Marriages, NSW Coroner and the National Coronial Information System.
- The Ambulance Service of NSW for providing data from the Computer-Aided Dispatch, electronic Medical Record and Patient Health Care Record systems.

This serious injury research forms part of the routine monitoring activity undertaken by Transport for NSW to improve road safety for the community. It was approved by the following ethics committees –

- Approved by the NSW Population & Health Services Research Ethics Committee on 19th December 2013.
- Approved by the Aboriginal Health & Medical Research Council Ethics Committee on 24th January 2014.
- Approved by the ACT Health Human Research Ethics Committee on 13th November 2013.
- Approved by the Calvary Public Hospital Bruce Human Research Ethics Committee on 20th September 2017.

Important Note:

Serious injuries are likely to be very slightly understated for the 12 months ending March 2018 due to incomplete Lifetime Care data received from icare for the period 2016Q3-2018Q2. The estimated number is thought to be less than 10 for the 12 months ending June 2018.

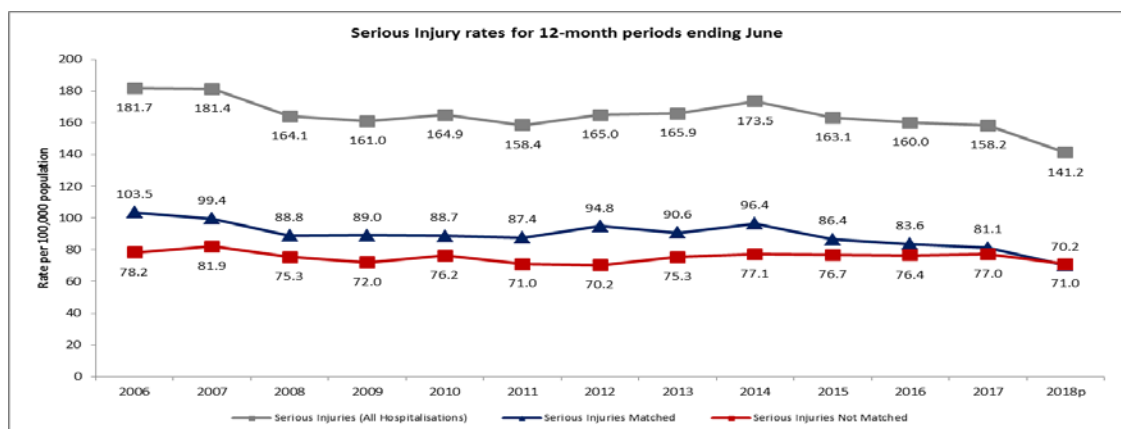
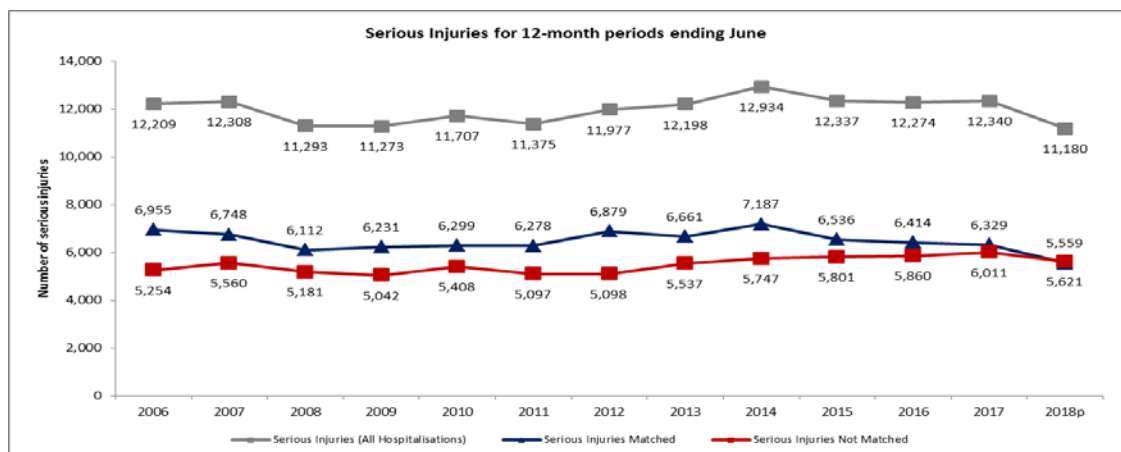
2 Serious Injury Trends

There were a total of 2,570 serious injuries (all hospitalisations) for the June 2018 quarter, 134 (5 per cent) fewer than the March 2018 quarter. Over the 12 month period ending June 2018 there were 11,180 serious injuries (all hospitalisations), 1,160 fewer (9 per cent) than the 12 month period ending June 2017. The serious injury rate for the 12 months ending June 2018 was 141.2 per 100,000 population.

The decrease in matched and unmatched serious injuries over the last 12 months, in particular the first half of 2018, is in line with the reduction in casualties reported to NSW police over the same period. As shown in Appendix A, there were a total of 3,978 police-reported injuries for the June 2018 quarter, 438 (10 per cent) fewer than the March 2018 quarter. Over the 12 month period ending June 2018 there were 18,875 police-reported injuries, 2,779 (13 per cent) fewer than the 12 month period ending June 2017.

Serious injury numbers and rates for 12-month period ending June 2018p

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	11,180	141.2
Serious injuries (matched) ²	5,559	70.2
Serious injuries (not matched) ³	5,621	71.0



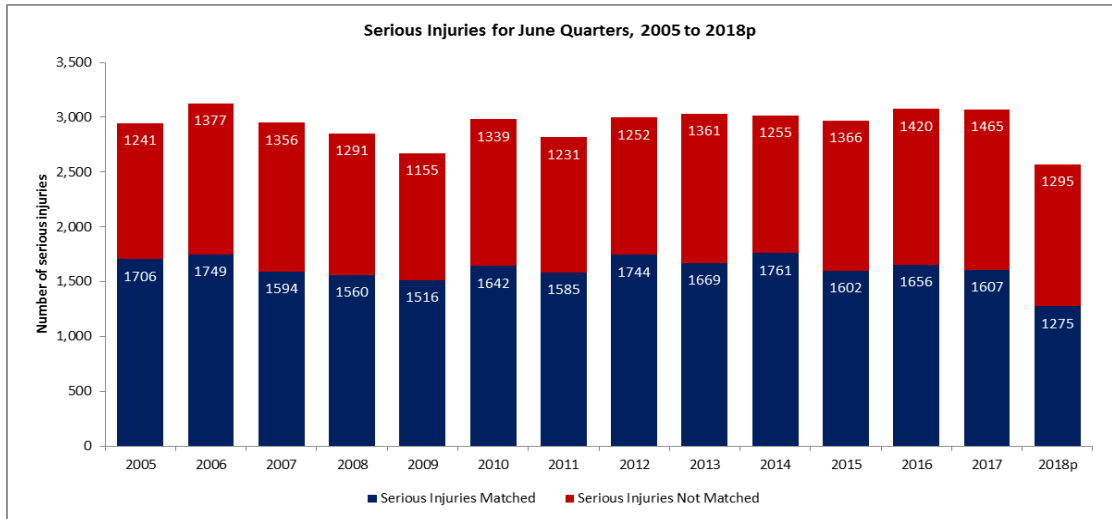
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

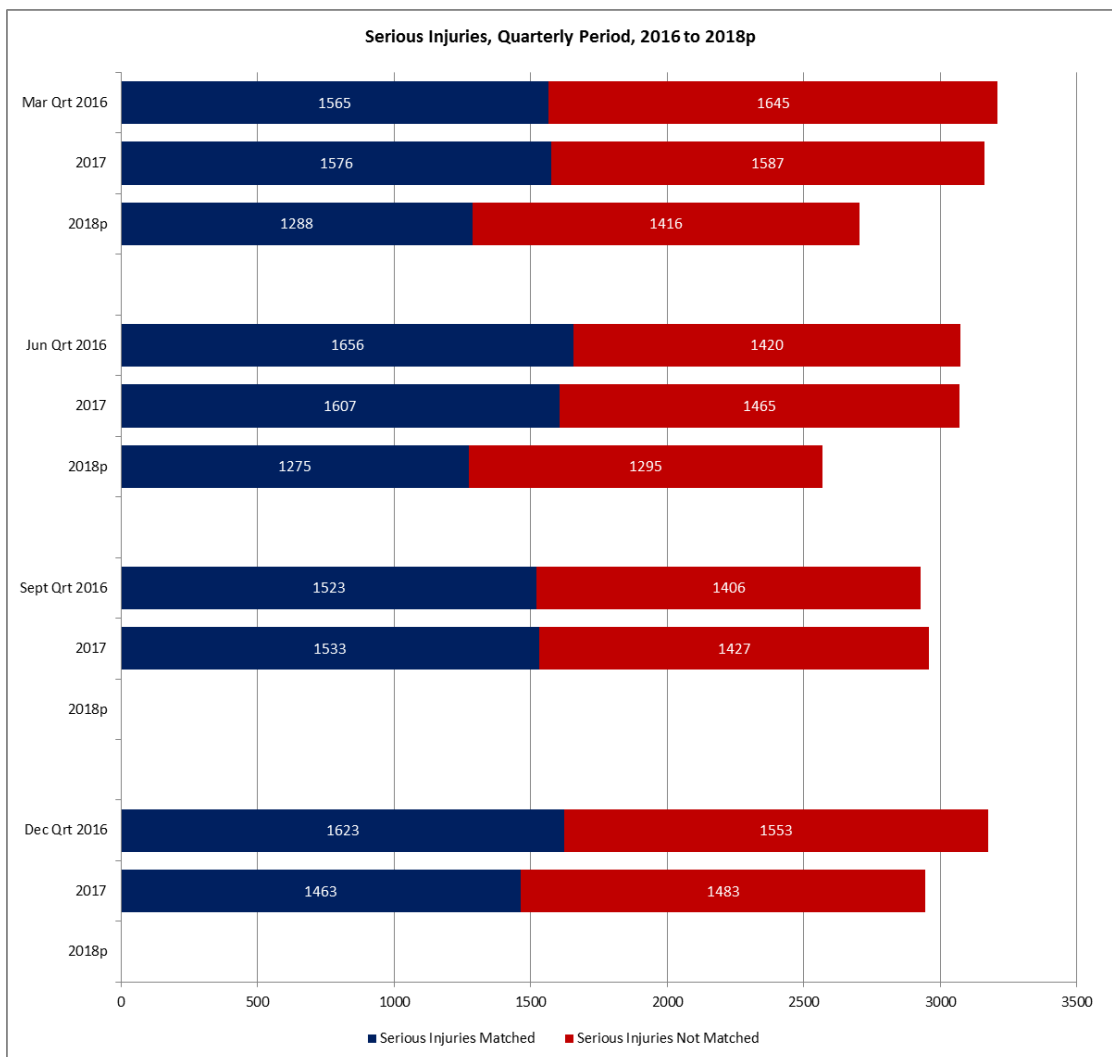
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

3.1 NSW serious injuries for June Quarter: 2005 to 2018p



3.2 NSW serious injuries: quarterly comparison, 2016 to 2018p



4 Rolling 12 Month Statistics

4.1 Serious injuries

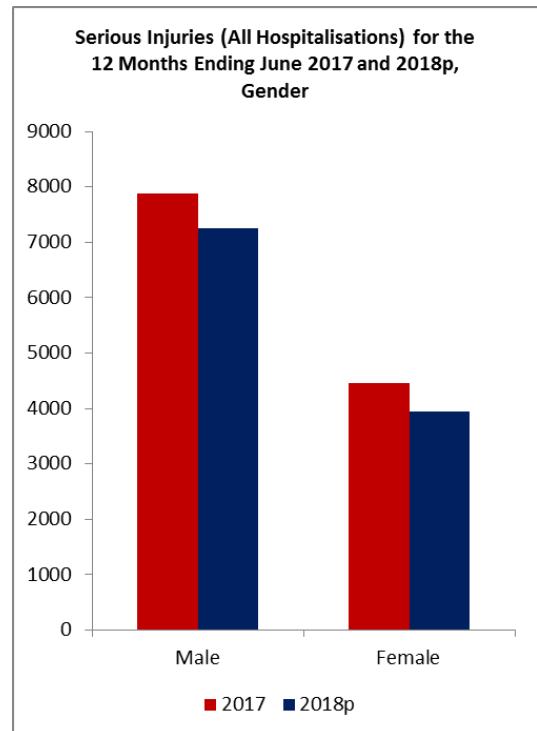
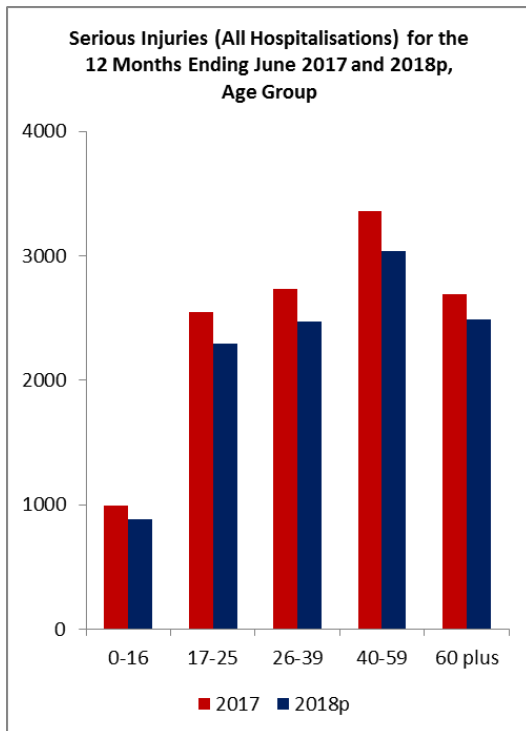
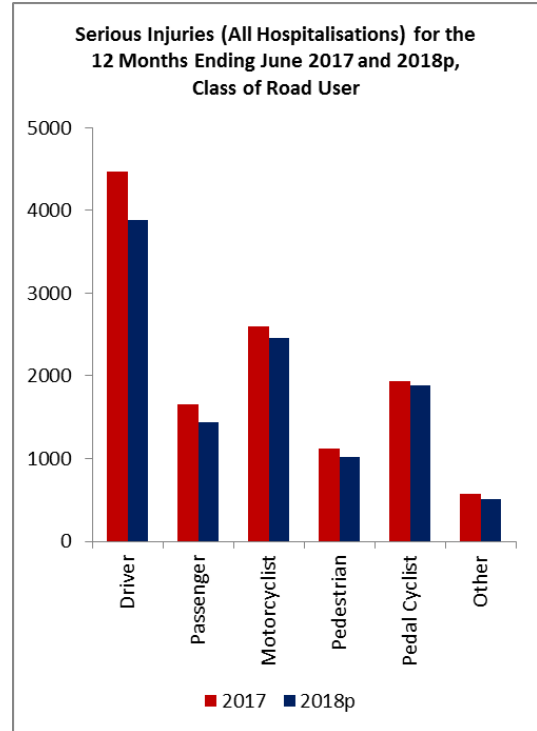
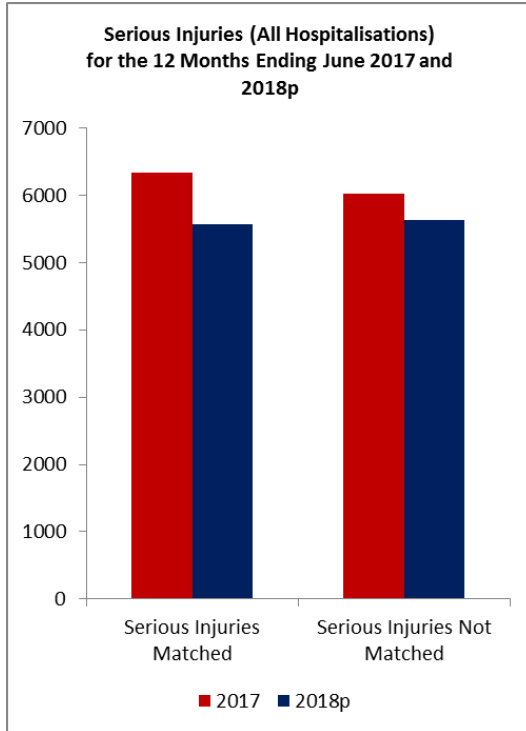
Overall

	12 months ending Jun 2018 ^p	12 months ending Jun 2017	# Change	% Change
Serious Injuries Matched	5559	6329	-770	-12%
Serious Injuries Not Matched	5621	6011	-390	-6%
All Hospitalisations	11180	12340	-1160	-9%

Serious Injuries (All Hospitalisations)

	12 months ending Jun 2018 ^p	12 months ending Jun 2017	# Change	% Change
Road User Group				
Driver	3877	4465	-588	-13%
Passenger	1434	1651	-217	-13%
Motorcyclist	2452	2598	-146	-6%
Pedestrian	1020	1122	-102	-9%
Pedal Cyclist	1885	1932	-47	-2%
Other	512	572	-60	-10%
Total	11180	12340	-1160	-9%
Age Group				
0-4	74	125	-51	-41%
5-16	809	869	-60	-7%
17-20	1067	1154	-87	-8%
21-25	1230	1396	-166	-12%
26-29	859	890	-31	-3%
30-39	1614	1844	-230	-12%
40-49	1575	1697	-122	-7%
50-59	1460	1665	-205	-12%
60-69	1052	1230	-178	-14%
70-79	779	829	-50	-6%
80+	655	631	24	4%
Unknown	6	10	-4	-40%
Total	11180	12340	-1160	-9%
Gender				
Male	7244	7882	-638	-8%
Female	3936	4458	-522	-12%
Unknown	0	0	0	n/a
Total	11180	12340	-1160	-9%

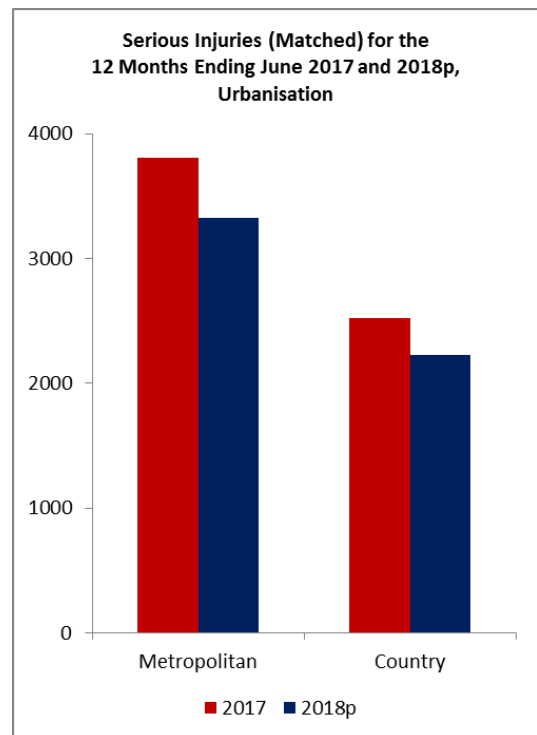
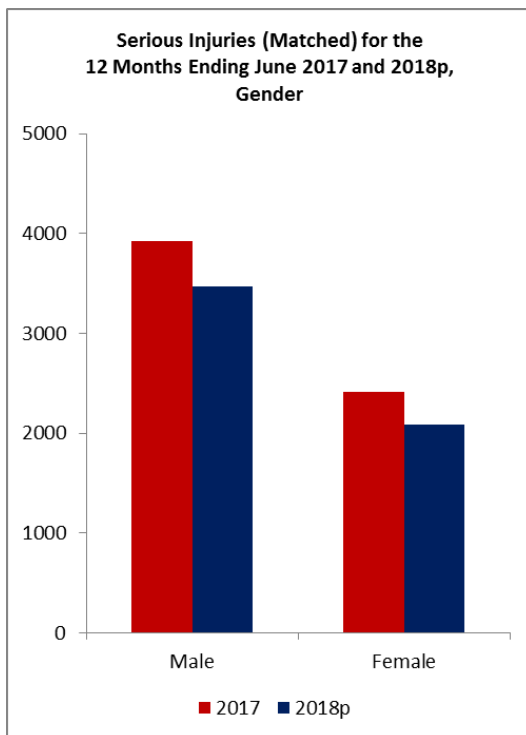
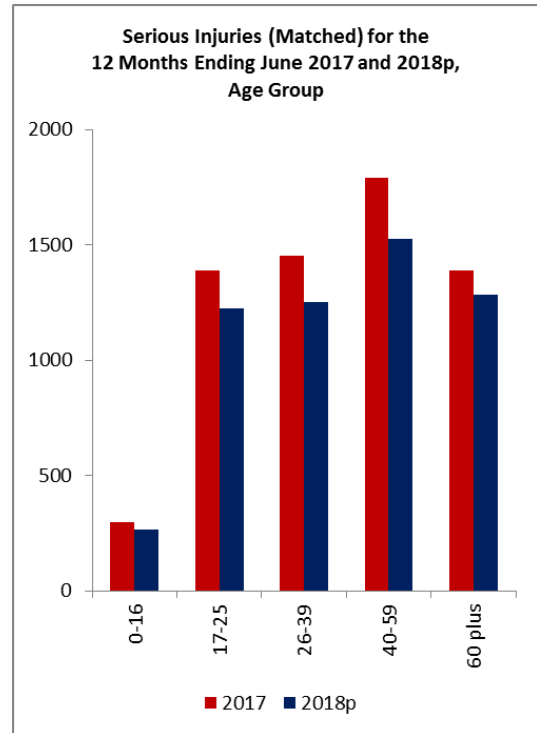
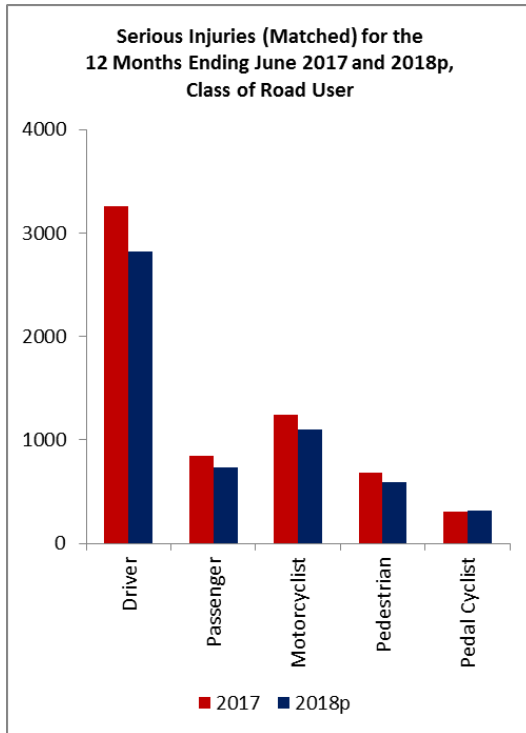
^p Preliminary data subject to change.



Serious Injuries (Matched)

	12 months ending Jun 2018p	12 months ending Jun 2017	# Change	% Change
Road User Group				
Driver	2825	3257	-432	-13%
Passenger	735	841	-106	-13%
Motorcyclist	1095	1241	-146	-12%
Pedestrian	591	684	-93	-14%
Pedal Cyclist	312	306	6	2%
Other Road User	1	0	1	n/a
Total	5559	6329	-770	-12%
Age Group				
0-4	19	54	-35	-65%
5-16	248	245	3	1%
17-20	584	656	-72	-11%
21-25	641	732	-91	-12%
26-29	432	475	-43	-9%
30-39	821	977	-156	-16%
40-49	753	883	-130	-15%
50-59	773	909	-136	-15%
60-69	548	667	-119	-18%
70-79	401	435	-34	-8%
80+	333	286	47	16%
Unknown	6	10	-4	-40%
Total	5559	6329	-770	-12%
Gender				
Male	3472	3919	-447	-11%
Female	2087	2410	-323	-13%
Unknown	0	0	0	n/a
Total	5559	6329	-770	-12%
Urbanisation				
Metropolitan	3329	3805	-476	-13%
Country	2230	2524	-294	-12%
Total	5559	6329	-770	-12%

p Preliminary data subject to change.



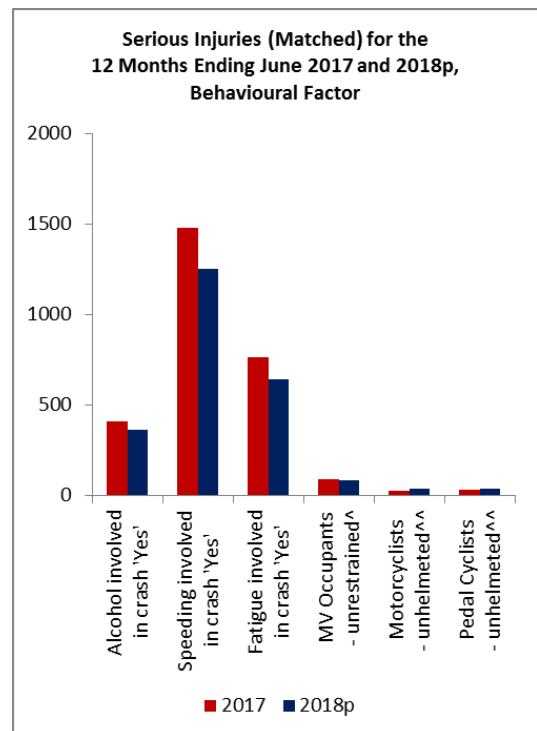
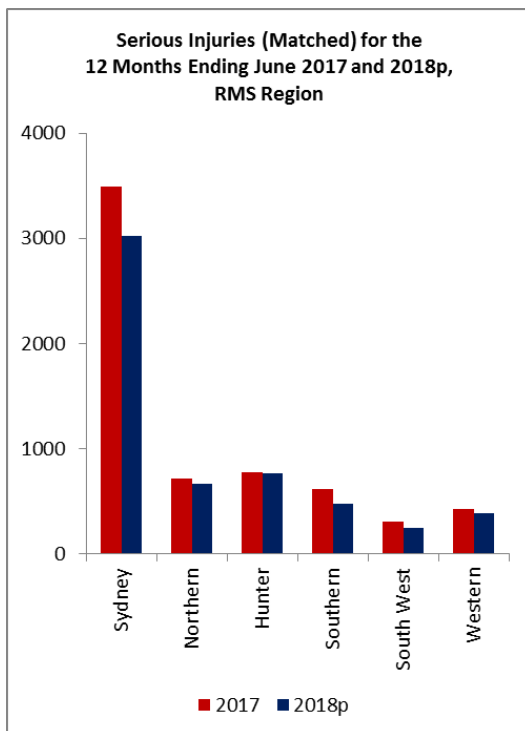
Serious Injuries (Matched) cont....

	12 months ending Jun 2018p	12 months ending Jun 2017	# Change	% Change
RMS Region (CRS)				
Sydney	3021	3488	-467	-13%
Northern	663	718	-55	-8%
Hunter	764	778	-14	-2%
Southern	475	617	-142	-23%
South West	248	304	-56	-18%
Western	388	424	-36	-8%
Total	5559	6329	-770	-12%
Behaviour Factors				
Alcohol involved in crash 'Yes'	364	413	-49	-12%
Speeding involved in crash 'Yes'	1252	1480	-228	-15%
Fatigue involved in crash 'Yes'	644	762	-118	-15%
Safety Device Usage				
Driver - unrestrained^	57	68	-11	-16%
Passenger - unrestrained^	26	26	0	0%
Motor Vehicle Occupants - unrestrained^	83	94	-11	-12%
Motorcyclists- unhelmeted^^	37	27	10	37%
Pedal Cyclists - unhelmeted^^	42	35	7	20%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

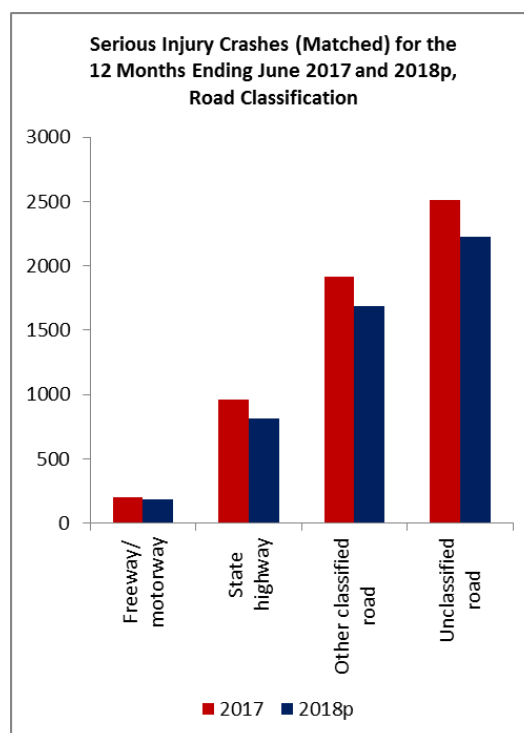
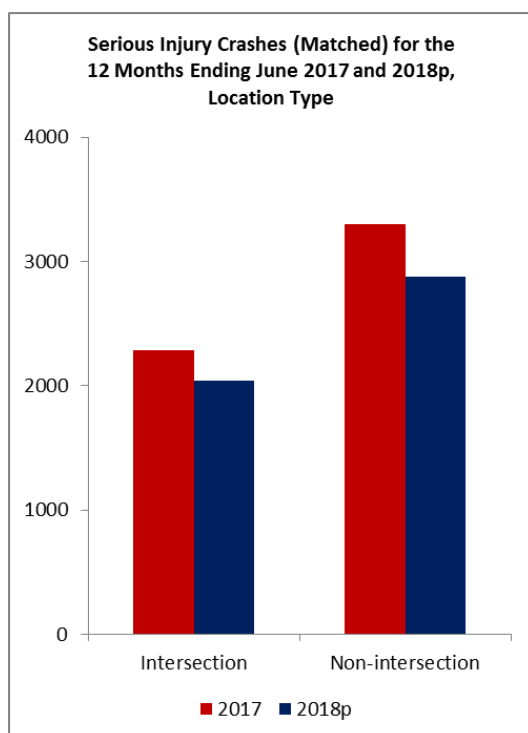


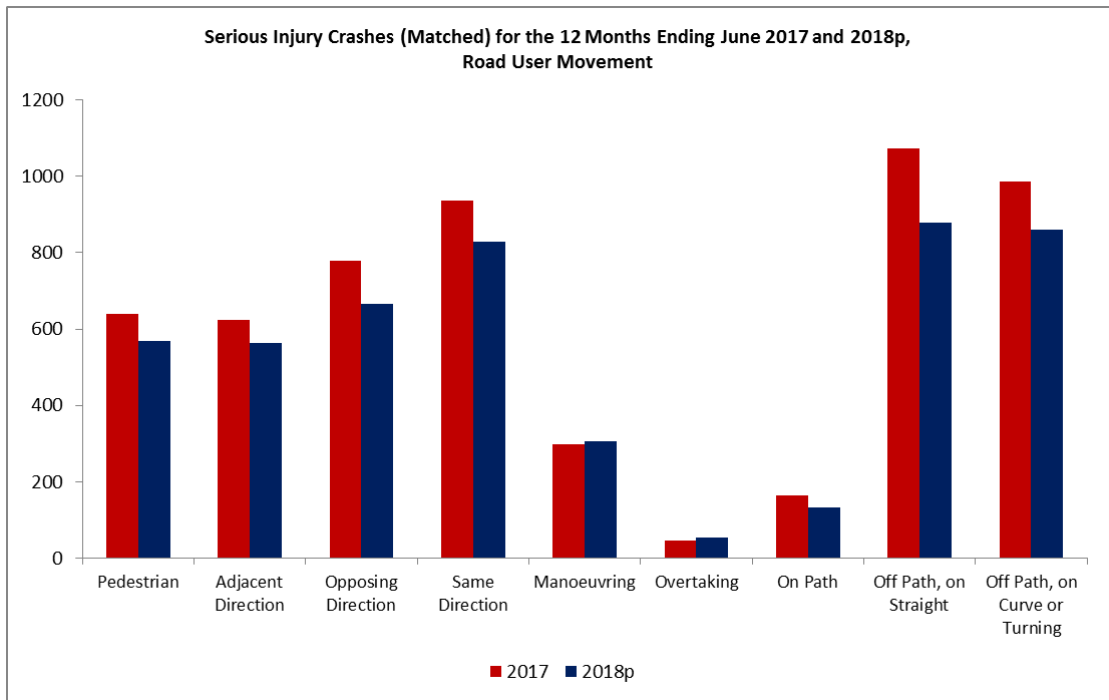
4.2 Serious injury crashes

Serious Injury Crashes (Matched)

	12 months ending Jun 2018p	12 months ending Jun 2017	# Change	% Change
Location type				
Intersection	2039	2288	-249	-11%
Non-intersection	2873	3301	-428	-13%
Total	4912	5589	-677	-12%
Road classification				
Freeway/motorway	186	199	-13	-7%
State highway	814	964	-150	-16%
Other classified road	1688	1913	-225	-12%
Unclassified road	2224	2513	-289	-12%
Total	4912	5589	-677	-12%
Type of crash (RUM)				
Pedestrian	568	640	-72	-11%
Cross Traffic	315	315	0	0%
Other Turning Adjacent	249	308	-59	-19%
Head On (Not O'Taking)	256	307	-51	-17%
Other Turning Opposite	410	471	-61	-13%
Rear End (incl Left and Right Rear)	591	667	-76	-11%
Lane Side Swipe (incl lane change left / right)	177	181	-4	-2%
Other Turn Side Swipe	62	88	-26	-30%
Manoeuvring	307	298	9	3%
Overtaking	55	47	8	17%
On Path	133	165	-32	-19%
Off Path, on Straight	878	1072	-194	-18%
Off Path, on Curve or Turning	860	986	-126	-13%
Miscellaneous / Unknown	51	44	7	16%
Total	4912	5589	-677	-12%

p Preliminary data subject to change.





5 Annual Statistics

5.1 Serious injuries⁴

		Quarter				Total
		Q1	Q2	Q3	Q4	
Serious Injuries Matched	Year					
	2005	1435	1706	1694	1759	6594
	2006	1753	1749	1758	1699	6959
	2007	1697	1594	1557	1539	6387
	2008	1456	1560	1540	1634	6190
	2009	1541	1516	1481	1675	6213
	2010	1501	1642	1517	1562	6222
	2011	1614	1585	1704	1708	6611
	2012	1723	1744	1655	1760	6882
	2013	1577	1669	1813	1859	6918
	2014	1754	1761	1662	1645	6822
	2015	1627	1602	1572	1621	6422
	2016	1565	1656	1523	1623	6367
	2017	1576	1607	1533	1463	6179
2018 ^p	1288	1275			2563	
Serious Injuries Not Matched	2005	1464	1241	1137	1331	5173
	2006	1409	1377	1312	1410	5508
	2007	1482	1356	1238	1292	5368
	2008	1360	1291	1145	1387	5183
	2009	1355	1155	1300	1383	5193
	2010	1386	1339	1151	1351	5227
	2011	1364	1231	1144	1324	5063
	2012	1378	1252	1244	1501	5375
	2013	1431	1361	1369	1591	5752
	2014	1532	1255	1304	1518	5609
	2015	1613	1366	1282	1513	5774
	2016	1645	1420	1406	1553	6024
	2017	1587	1465	1427	1483	5962
	2018 ^p	1416	1295			2711
All Hospitalisations	2005	2899	2947	2831	3090	11767
	2006	3162	3126	3070	3109	12467
	2007	3179	2950	2795	2831	11755
	2008	2816	2851	2685	3021	11373
	2009	2896	2671	2781	3058	11406
	2010	2887	2981	2668	2913	11449
	2011	2978	2816	2848	3032	11674
	2012	3101	2996	2899	3261	12257
	2013	3008	3030	3182	3450	12670
	2014	3286	3016	2966	3163	12431
	2015	3240	2968	2854	3134	12196
	2016	3210	3076	2929	3176	12391
	2017	3163	3072	2960	2946	12141
	2018 ^p	2704	2570			5274

^p Preliminary data subject to change.

⁴ Serious injuries are estimated to be under-enumerated by about 5 per cent for the latest quarter and are projected to increase by a magnitude of around 125.

6 Appendices

6.1 Appendix A

Police Reported Casualties

	Jun Qrt 2018p	Mar Qrt 2018p	# Change	% Change
Casualties				
Fatalities	79	93	-14	-15%
Injuries	3978	4416	-438	-10%
Total	4057	4509	-452	-10%

Police Reported Casualties

	12 months ending Jun 2018p	12 months ending Jun 2017	# Change	% Change
Casualties				
Fatalities	388	355	33	9%
Injuries	18875	21654	-2779	-13%
Total	19263	22009	-2746	-12%

p Preliminary data subject to change.

Data as at 19 December 2018