



Transport
for NSW

Quarterly Bulletin of Serious Injury Crash Data

Quarter ending March 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) and icare (Lifetime Care) for providing data on Compulsory Third Party insurance claims and 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 2016Q3-2018Q1. The estimated number is thought to be less than 10 for the 12 months ending March 2018.

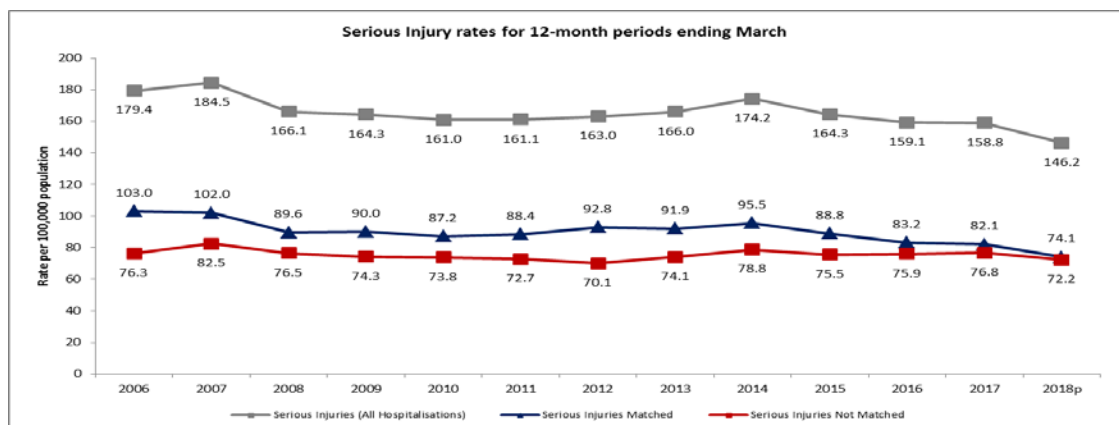
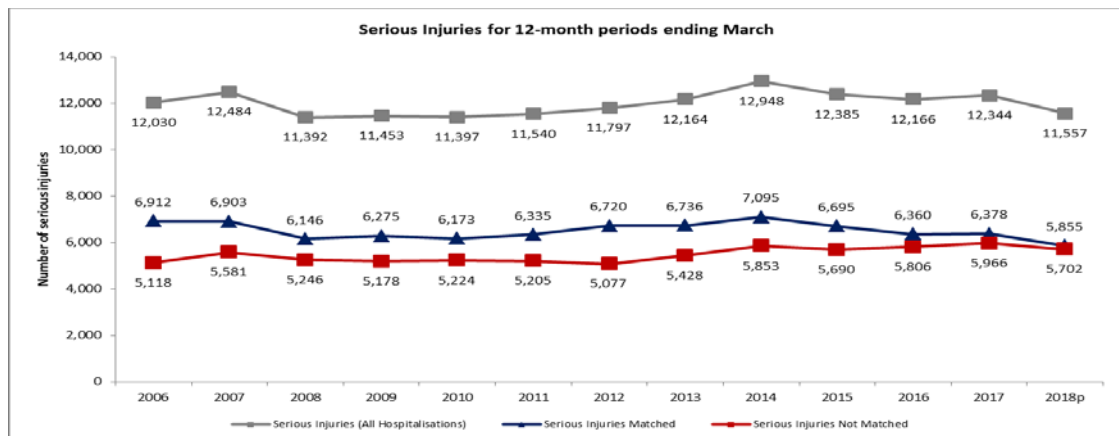
2 Serious Injury Trends

There were a total of 2,579 serious injuries (all hospitalisations) for the March 2018 quarter, 367 (12 per cent) fewer than the December 2017 quarter. Over the 12 month period ending March 2018 there were 11,557 serious injuries (all hospitalisations), 787 (6 per cent) fewer than the 12 month period ending March 2017. The serious injury rate for the 12 months ending March 2018 was 146.2 per 100,000 population.

The decrease in matched and unmatched serious injuries over the last 12 months, in particular the first quarter 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 3,805 police-reported injuries for the March 2018 quarter, 1,305 (26 per cent) fewer than the December 2017 quarter. Over the 12 month period ending March 2018 there were 19,614 police-reported injuries, 2,399 (11 per cent) fewer than the 12 month period ending March 2017.

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

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	11,557	146.2
Serious injuries (matched) ²	5,855	74.1
Serious injuries (not matched) ³	5,702	72.2



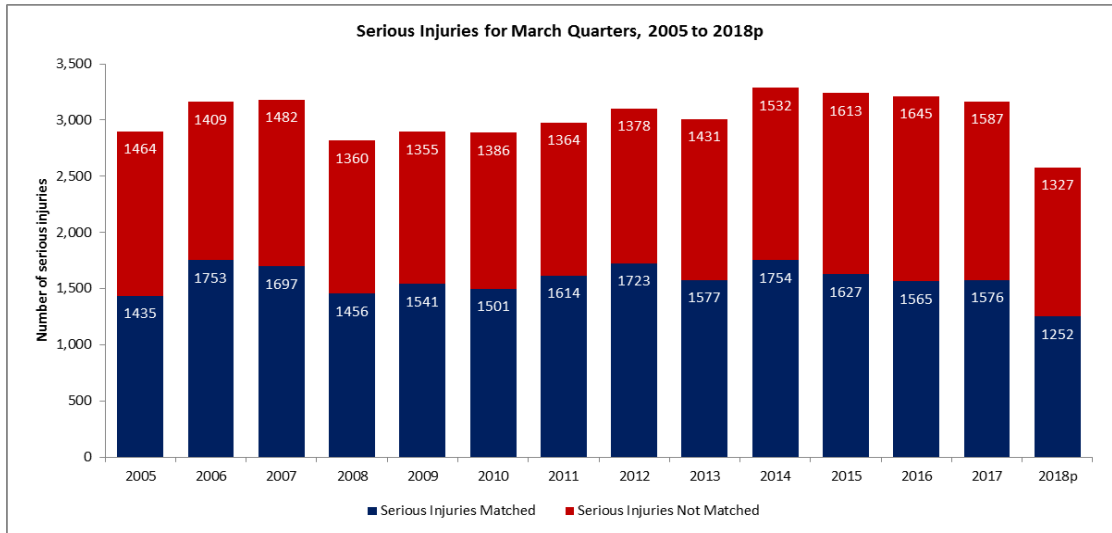
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

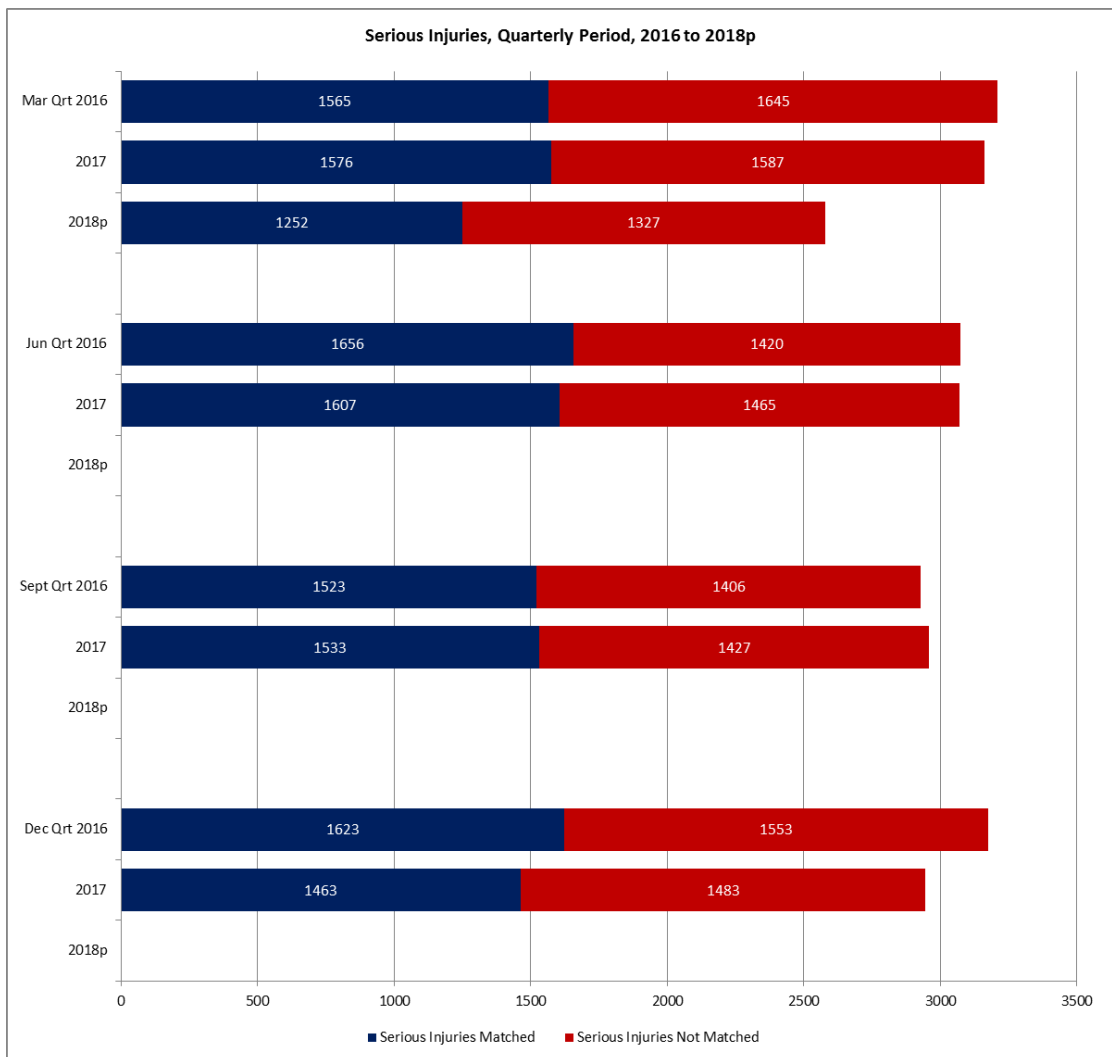
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

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



3.2 NSW serious injuries: quarterly comparison, 2015 to 2018p



4 Rolling 12 Month Statistics

4.1 Serious injuries

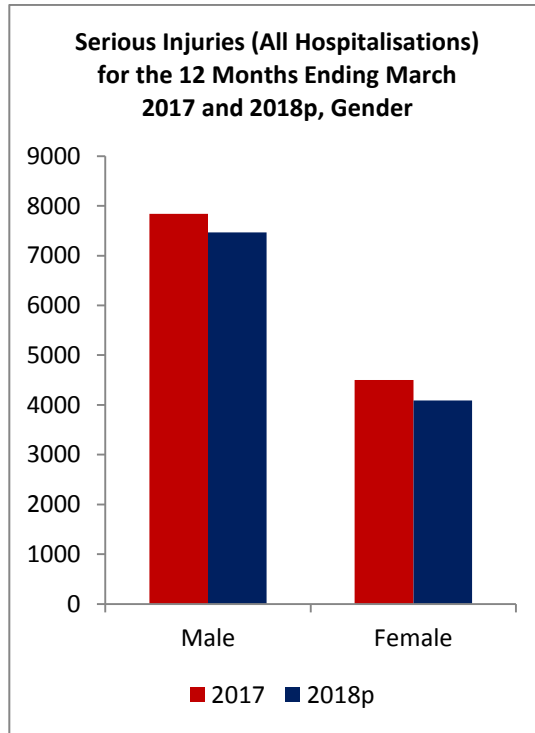
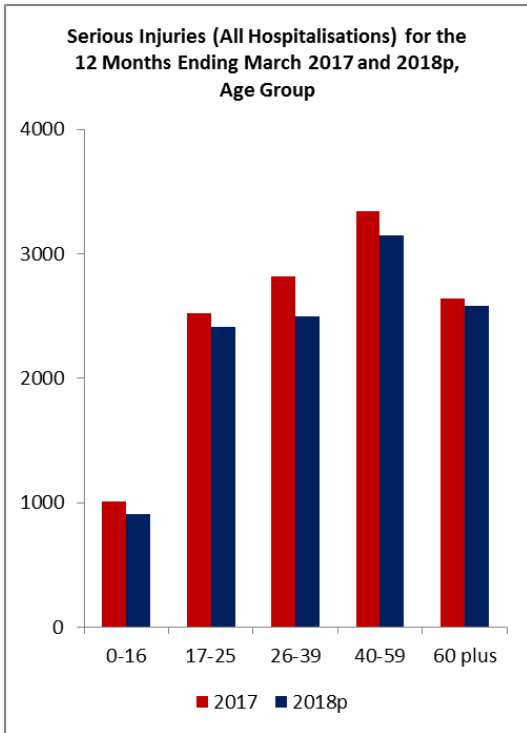
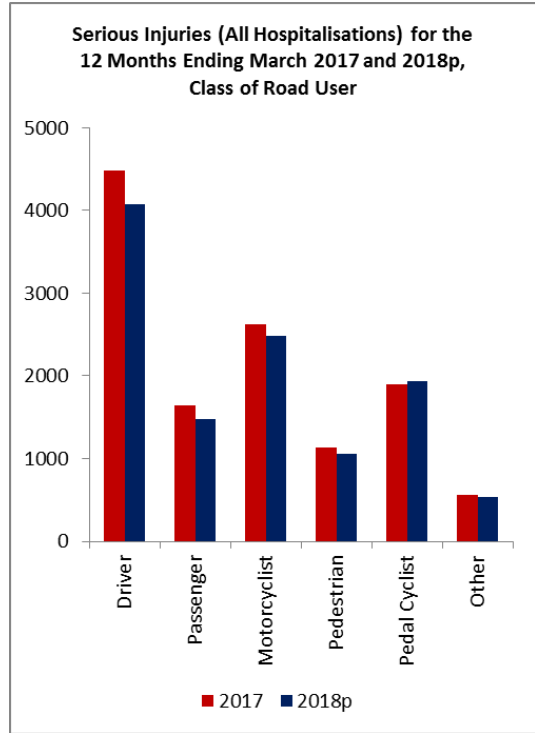
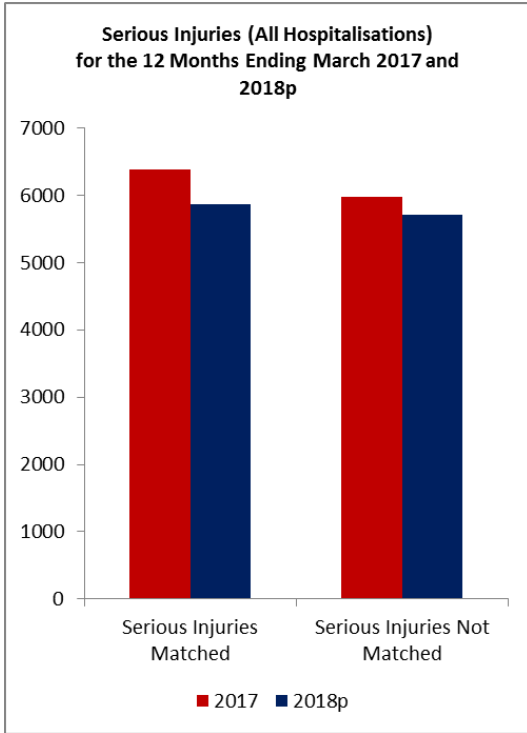
Overall

	12 months ending Mar 2018p	12 months ending Mar 2017	# Change	% Change
Serious Injuries Matched	5855	6378	-523	-8%
Serious Injuries Not Matched	5702	5966	-264	-4%
All Hospitalisations	11557	12344	-787	-6%

Serious Injuries (All Hospitalisations)

	12 months ending Mar 2018p	12 months ending Mar 2017	# Change	% Change
Road User Group				
Driver	4069	4485	-416	-9%
Passenger	1473	1642	-169	-10%
Motorcyclist	2486	2628	-142	-5%
Pedestrian	1055	1130	-75	-7%
Pedal Cyclist	1933	1901	32	2%
Other	541	558	-17	-3%
Total	11557	12344	-787	-6%
Age Group				
0-4	79	118	-39	-33%
5-16	826	888	-62	-7%
17-20	1133	1112	21	2%
21-25	1282	1411	-129	-9%
26-29	850	888	-38	-4%
30-39	1650	1934	-284	-15%
40-49	1652	1688	-36	-2%
50-59	1497	1654	-157	-9%
60-69	1132	1180	-48	-4%
70-79	790	833	-43	-5%
80+	659	628	31	5%
Unknown	7	10	-3	-30%
Total	11557	12344	-787	-6%
Gender				
Male	7466	7843	-377	-5%
Female	4091	4501	-410	-9%
Unknown	0	0	0	n/a
Total	11557	12344	-787	-6%

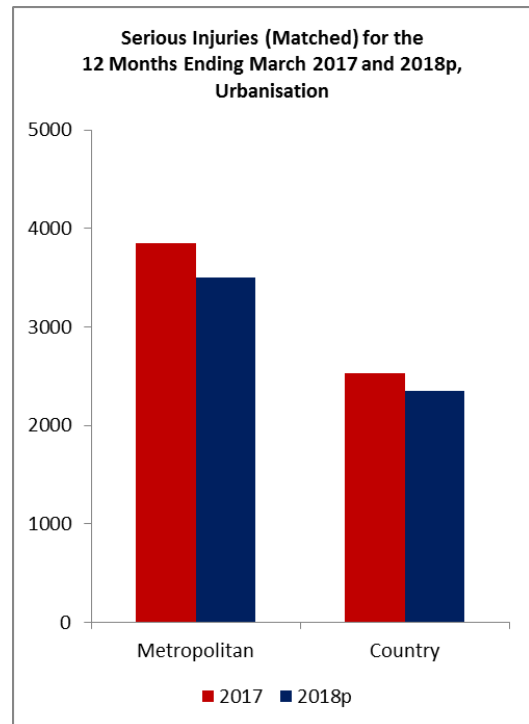
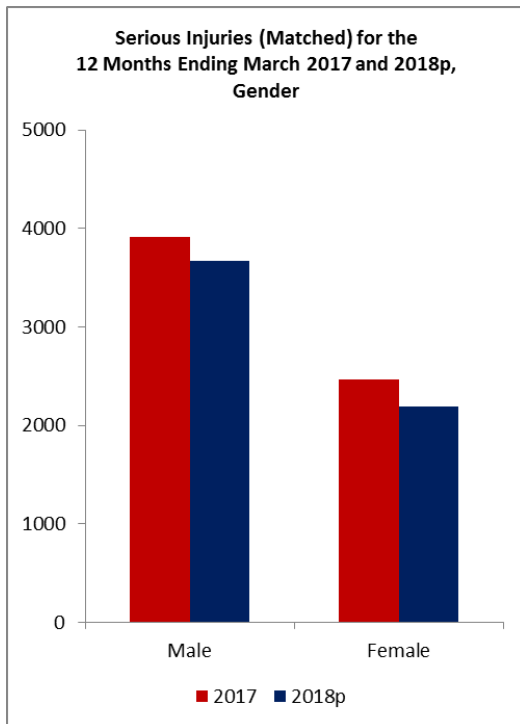
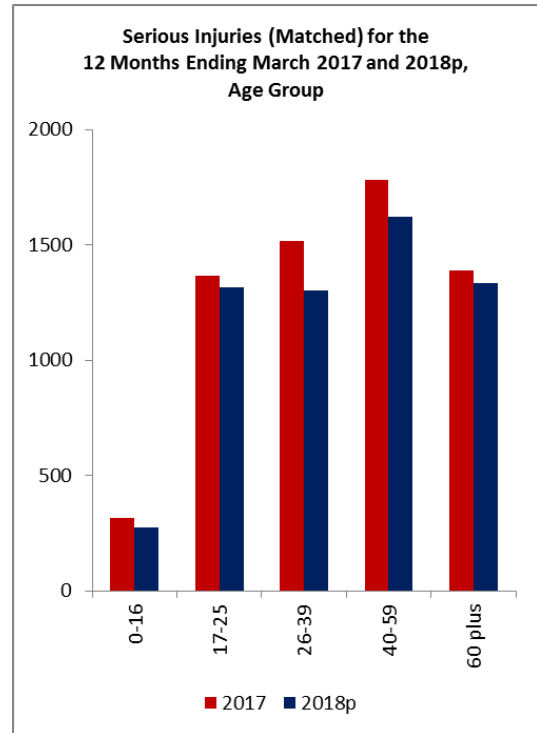
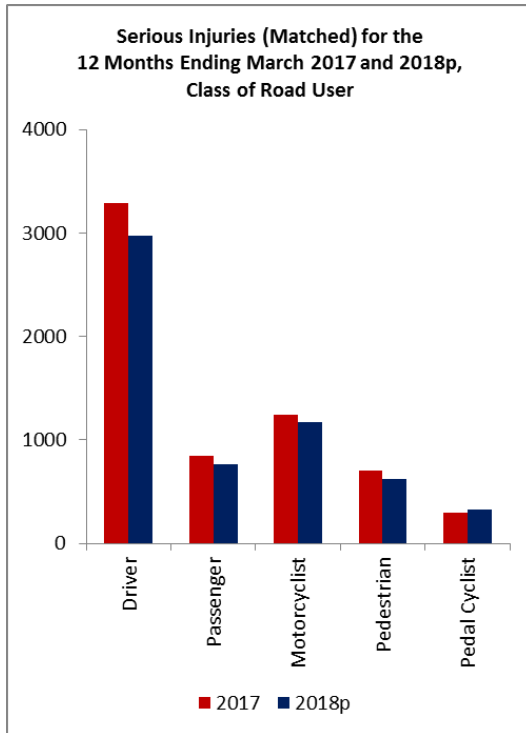
p Preliminary data subject to change.



Serious Injuries (Matched)

	12 months ending Mar 2018 ^p	12 months ending Mar 2017	# Change	% Change
Road User Group				
Driver	2974	3291	-317	-10%
Passenger	762	848	-86	-10%
Motorcyclist	1171	1241	-70	-6%
Pedestrian	623	700	-77	-11%
Pedal Cyclist	324	298	26	9%
Other Road User	1	0	1	n/a
Total	5855	6378	-523	-8%
Age Group				
0-4	24	58	-34	-59%
5-16	251	256	-5	-2%
17-20	631	622	9	1%
21-25	684	746	-62	-8%
26-29	453	469	-16	-3%
30-39	851	1047	-196	-19%
40-49	822	882	-60	-7%
50-59	800	900	-100	-11%
60-69	601	644	-43	-7%
70-79	401	450	-49	-11%
80+	330	294	36	12%
Unknown	7	10	-3	-30%
Total	5855	6378	-523	-8%
Gender				
Male	3666	3909	-243	-6%
Female	2189	2469	-280	-11%
Unknown	0	0	0	n/a
Total	5855	6378	-523	-8%
Urbanisation				
Metropolitan	3504	3853	-349	-9%
Country	2351	2525	-174	-7%
Total	5855	6378	-523	-8%

^p Preliminary data subject to change.



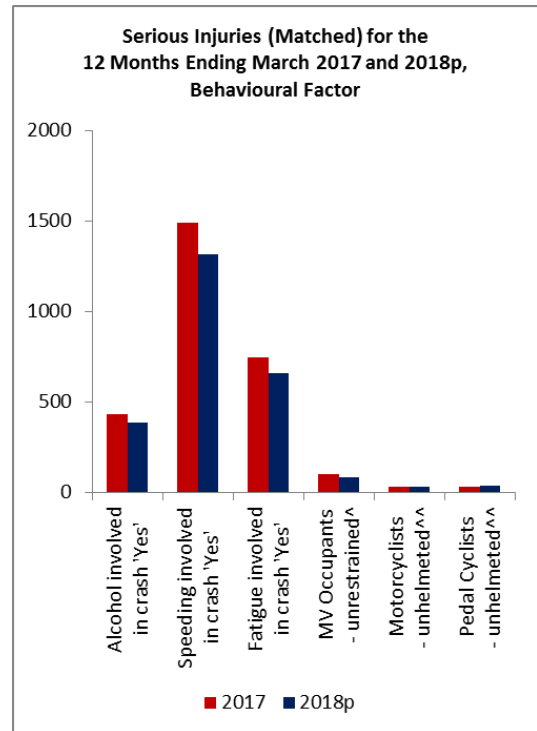
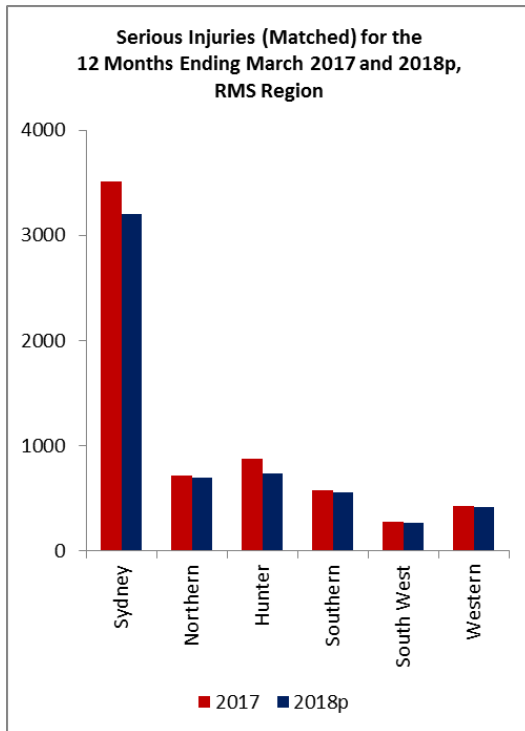
Serious Injuries (Matched) cont....

	12 months ending Mar 2018p	12 months ending Mar 2017	# Change	% Change
RMS Region (CRS)				
Sydney	3199	3509	-310	-9%
Northern	695	720	-25	-3%
Hunter	732	871	-139	-16%
Southern	552	574	-22	-4%
South West	264	277	-13	-5%
Western	413	427	-14	-3%
Total	5855	6378	-523	-8%
Behaviour Factors				
Alcohol involved in crash 'Yes'	387	431	-44	-10%
Speeding involved in crash 'Yes'	1318	1491	-173	-12%
Fatigue involved in crash 'Yes'	658	749	-91	-12%
Safety Device Usage				
Driver - unrestrained^	59	78	-19	-24%
Passenger - unrestrained^	25	27	-2	-7%
Motor Vehicle Occupants - unrestrained^	84	105	-21	-20%
Motorcyclists- unhelmeted^^	35	36	-1	-3%
Pedal Cyclists - unhelmeted^^	39	35	4	11%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

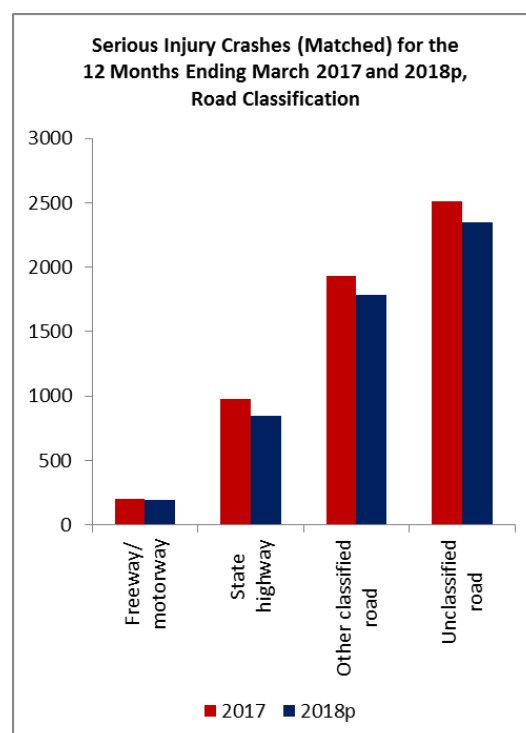
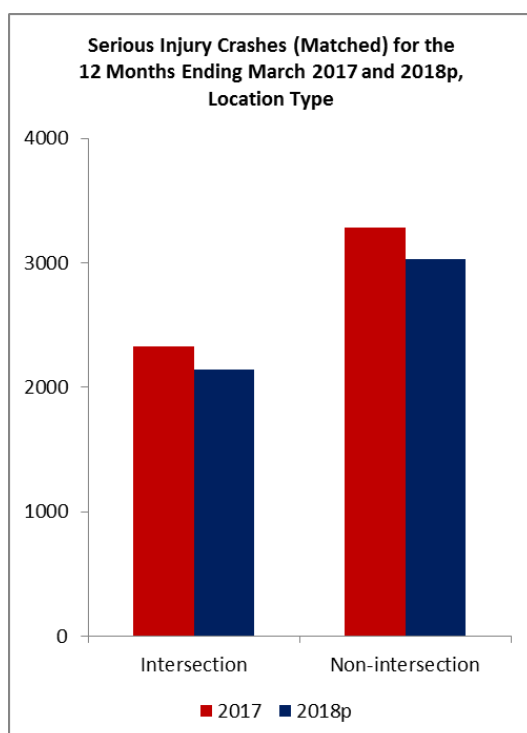


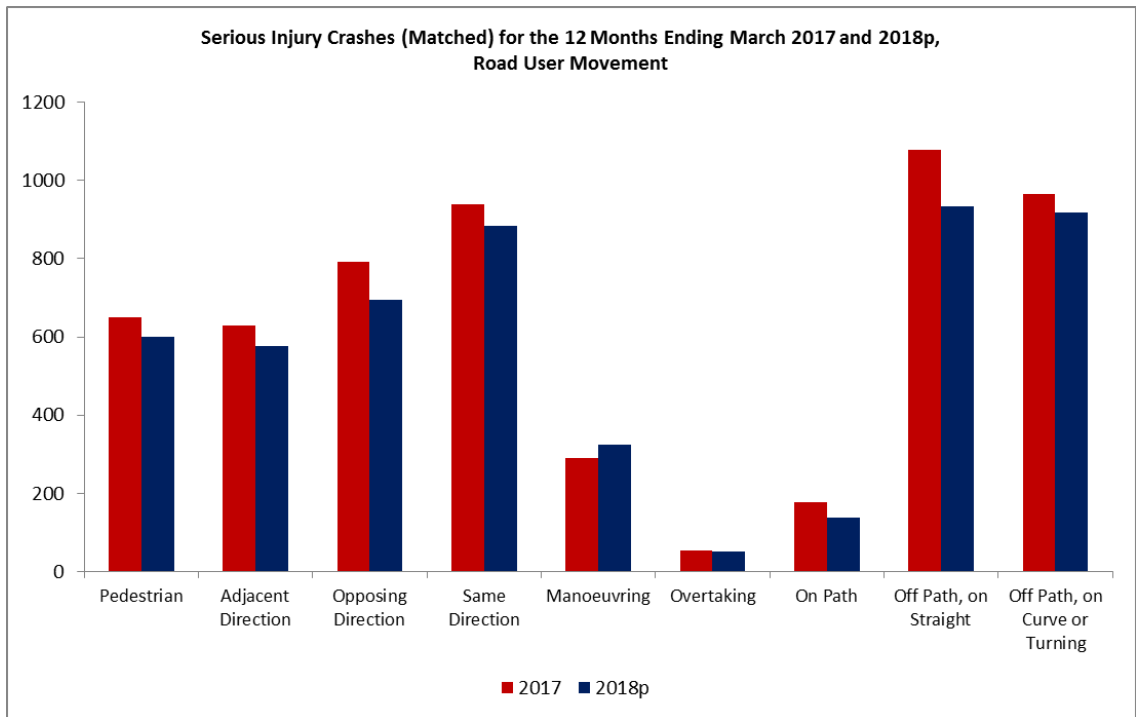
4.2 Serious injury crashes

Serious Injury Crashes (Matched)

	12 months ending Mar 2018p	12 months ending Mar 2017	# Change	% Change
Location type				
Intersection	2141	2328	-187	-8%
Non-intersection	3031	3287	-256	-8%
Total	5172	5615	-443	-8%
Road classification				
Freeway/motorway	191	199	-8	-4%
State highway	848	973	-125	-13%
Other classified road	1788	1930	-142	-7%
Unclassified road	2345	2513	-168	-7%
Total	5172	5615	-443	-8%
Type of crash (RUM)				
Pedestrian	601	650	-49	-8%
Cross Traffic	307	325	-18	-6%
Other Turning Adjacent	269	304	-35	-12%
Head On (Not O'Taking)	270	293	-23	-8%
Other Turning Opposite	424	500	-76	-15%
Rear End (incl Left and Right Rear)	626	668	-42	-6%
Lane Side Swipe (incl lane change left / right)	182	190	-8	-4%
Other Turn Side Swipe	75	82	-7	-9%
Manoeuvring	325	290	35	12%
Overtaking	51	54	-3	-6%
On Path	138	176	-38	-22%
Off Path, on Straight	935	1078	-143	-13%
Off Path, on Curve or Turning	917	965	-48	-5%
Miscellaneous / Unknown	52	40	12	30%
Total	5172	5615	-443	-8%

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	1252				1252	
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	1327				1327
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	2579				2579

^p Preliminary data subject to change.

⁴ Serious injuries are estimated to be under-enumerated by about 4 per cent for the latest quarter and are projected to increase by a magnitude of around 120.

6 Appendices

6.1 Appendix A

Police Reported Casualties

	Mar Qrt 2018p	Dec Qrt 2017	# Change	% Change
Casualties				
Fatalities	94	106	-12	-11%
Injuries	3805	5110	-1305	-26%
Total	3899	5216	-1317	-25%

Police Reported Casualties

	12 months ending Mar 2018p	12 months ending Mar 2017	# Change	% Change
Casualties				
Fatalities	407	367	40	11%
Injuries	19614	22013	-2399	-11%
Total	20021	22380	-2359	-11%

p Preliminary data subject to change.

Data as at 10 October 2018