



Transport
for NSW

Quarterly Bulletin of Serious Injury Crash Data

Quarter ending September 2019 (preliminary)

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1 Acknowledgements

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- 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 –

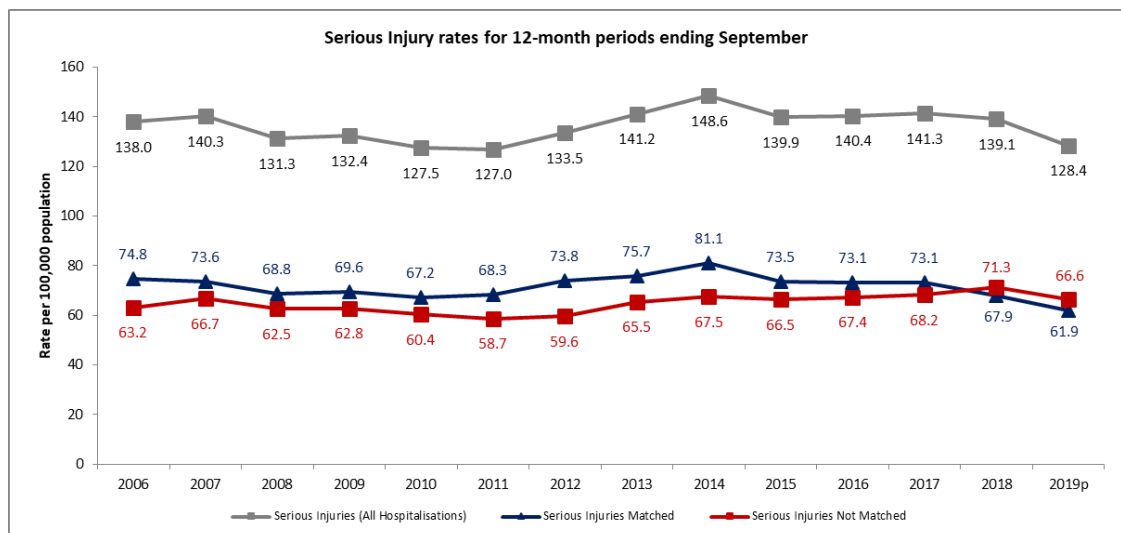
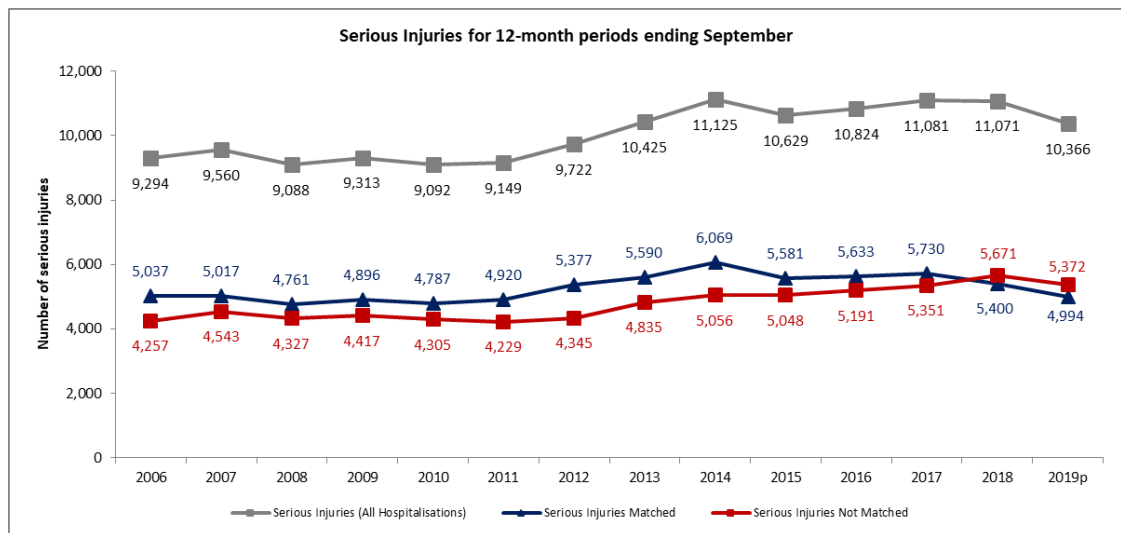
- Approved by the NSW Population & Health Services Research Ethics Committee on 19th December 2013.
- Approved by the Aboriginal Health & Medical Research Council Ethics Committee on 24th January 2014.
- Approved by the ACT Health Human Research Ethics Committee on 13th November 2013.
- Approved by the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

2 Serious Injury Trends

There were a total of 2,382 serious injuries (all hospitalisations) for the September 2019 quarter, 224 (9 per cent) fewer than the September 2018 quarter. Over the 12 month period ending September 2019 there were 10,366 serious injuries (all hospitalisations), 705 (6 per cent) fewer than the 12 month period ending September 2018. The serious injury rate for the 12 months ending September 2019 was 128.4 per 100,000 population.

Serious injury numbers and rates for 12-mth period ending September 2019p

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	10,366	128.4
Serious injuries (matched) ²	4,994	61.9
Serious injuries (not matched) ³	5,372	66.6



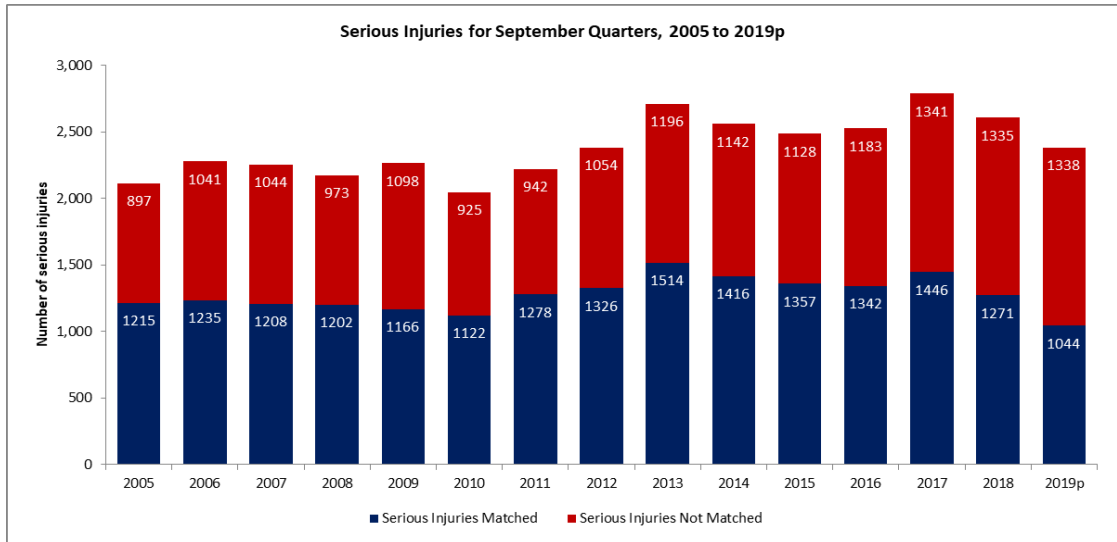
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

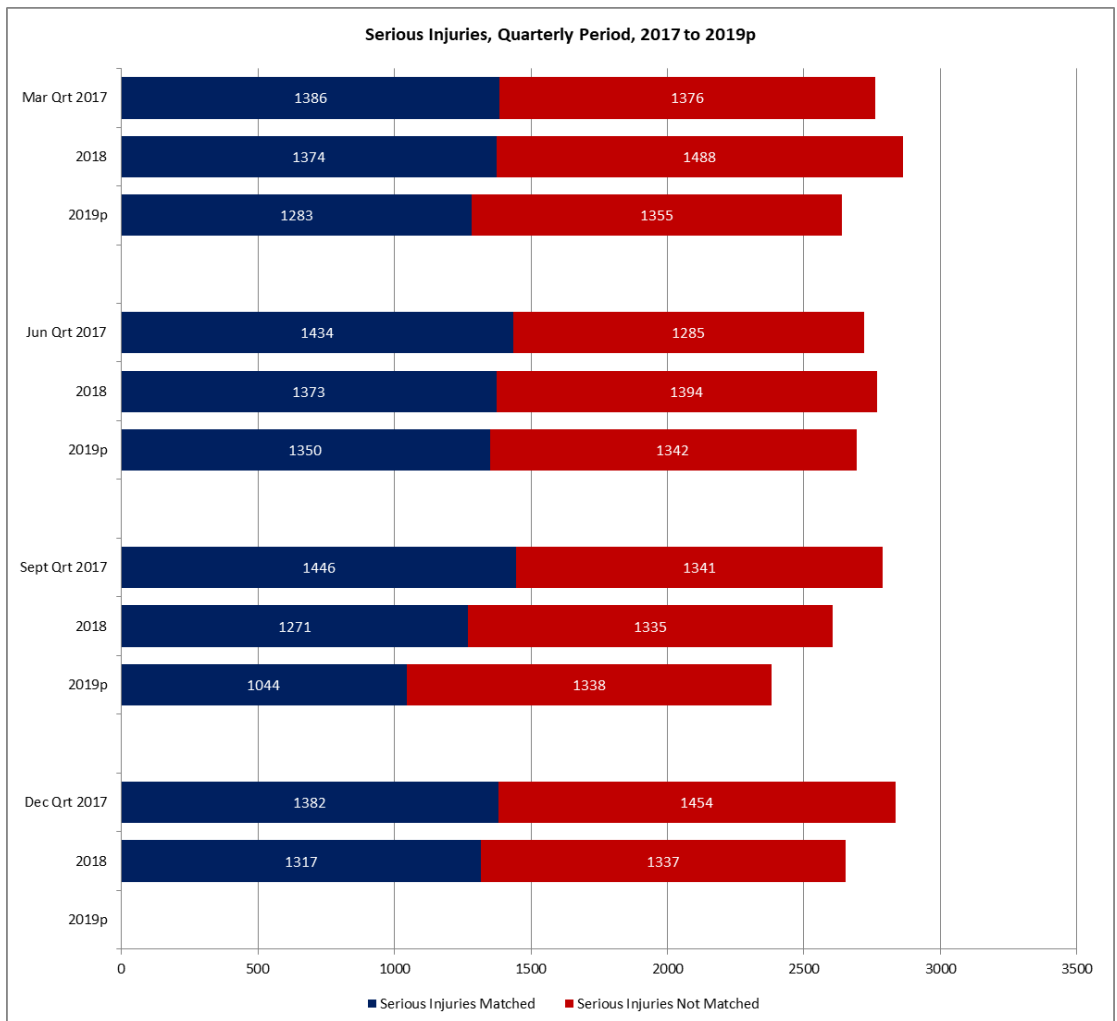
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

3.1 NSW serious injuries for September Quarter: 2005 to 2019p



3.2 NSW serious injuries: quarterly comparison, 2017 to 2019p



4 Rolling 12 Month Statistics

4.1 Serious injuries

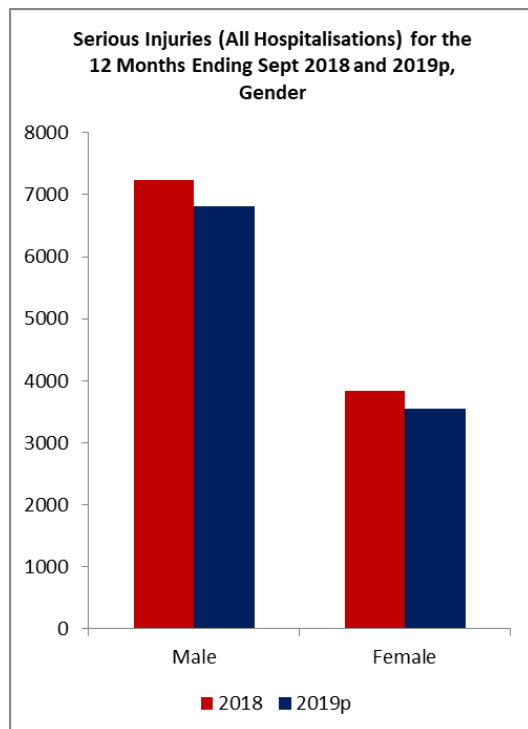
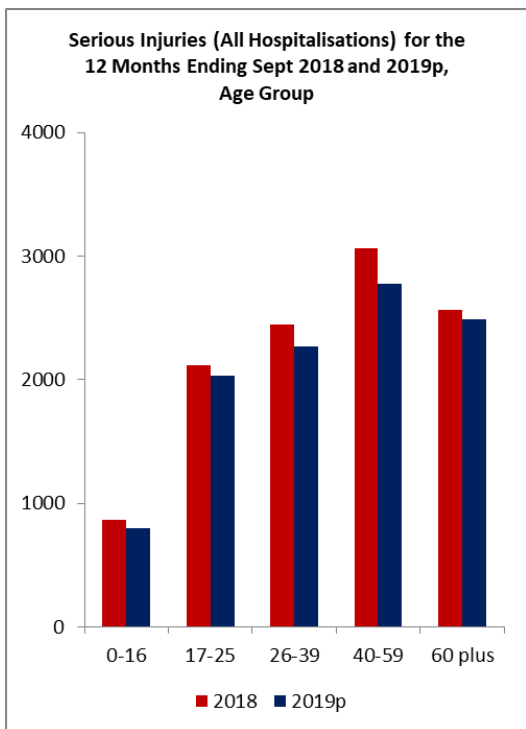
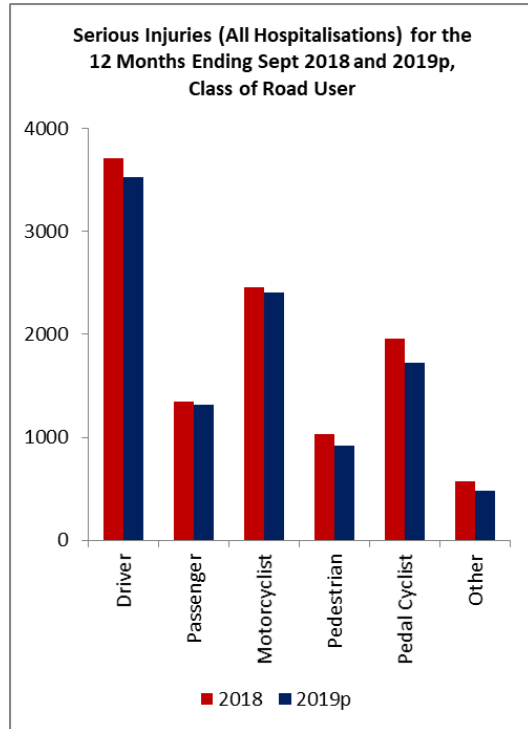
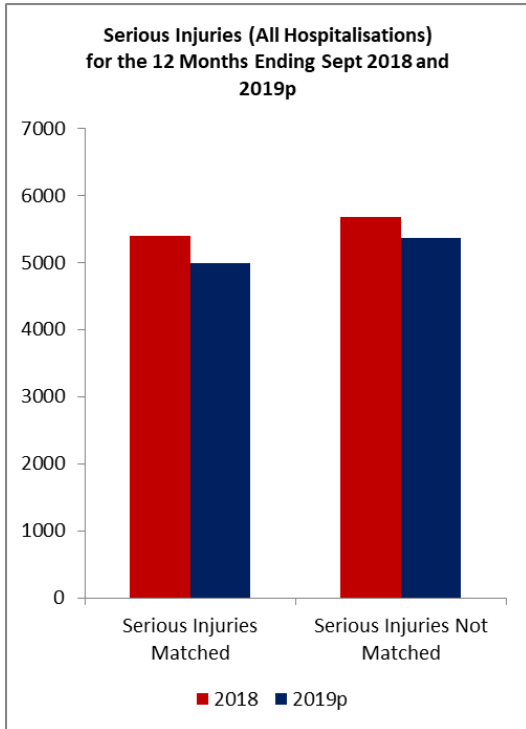
Overall

	12 months ending Sept 2019p	12 months ending Sept 2018	# Change	% Change
Serious Injuries Matched	4994	5400	-406	-8%
Serious Injuries Not Matched	5372	5671	-299	-5%
All Hospitalisations	10366	11071	-705	-6%

Serious Injuries (All Hospitalisations)

	12 months ending Sept 2019p	12 months ending Sept 2018	# Change	% Change
Road User Group				
Driver	3525	3710	-185	-5%
Passenger	1316	1348	-32	-2%
Motorcyclist	2401	2455	-54	-2%
Pedestrian	923	1027	-104	-10%
Pedal Cyclist	1721	1955	-234	-12%
Other	480	576	-96	-17%
Total	10366	11071	-705	-6%
Age Group				
0-4	74	75	-1	-1%
5-16	720	791	-71	-9%
17-20	918	989	-71	-7%
21-25	1111	1125	-14	-1%
26-29	731	843	-112	-13%
30-39	1534	1605	-71	-4%
40-49	1457	1542	-85	-6%
50-59	1318	1520	-202	-13%
60-69	1091	1070	21	2%
70-79	768	822	-54	-7%
80+	626	672	-46	-7%
Unknown	18	17	1	6%
Total	10366	11071	-705	-6%
Gender				
Male	6816	7231	-415	-6%
Female	3550	3840	-290	-8%
Unknown	0	0	0	n/a
Total	10366	11071	-705	-6%

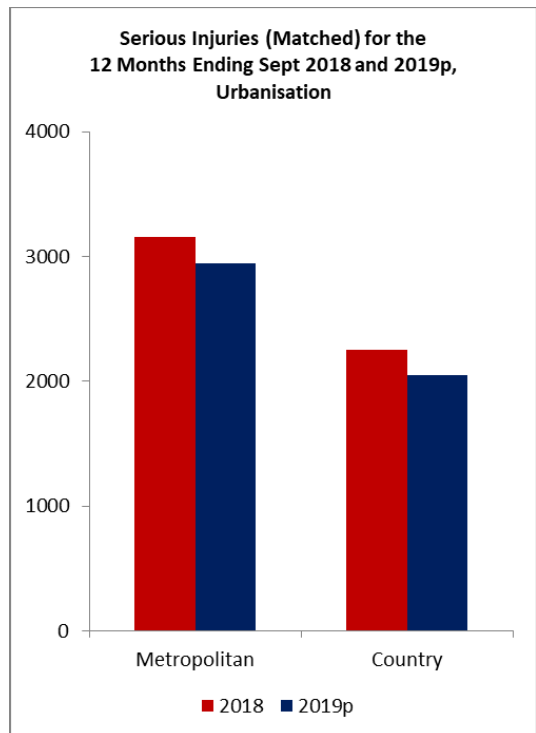
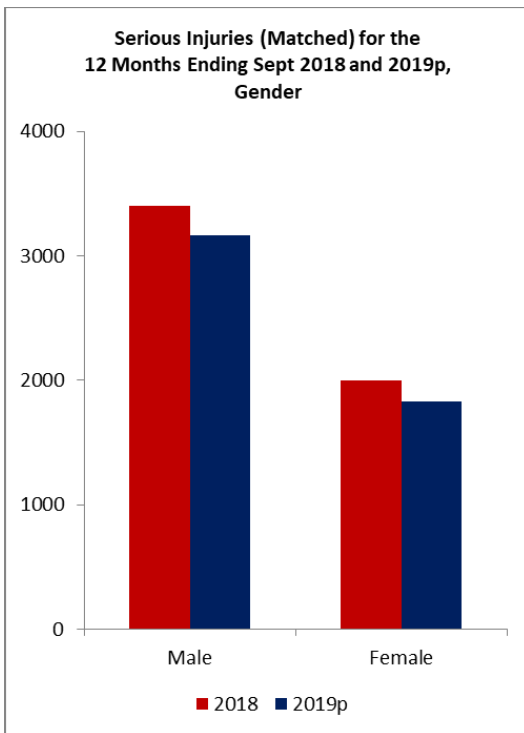
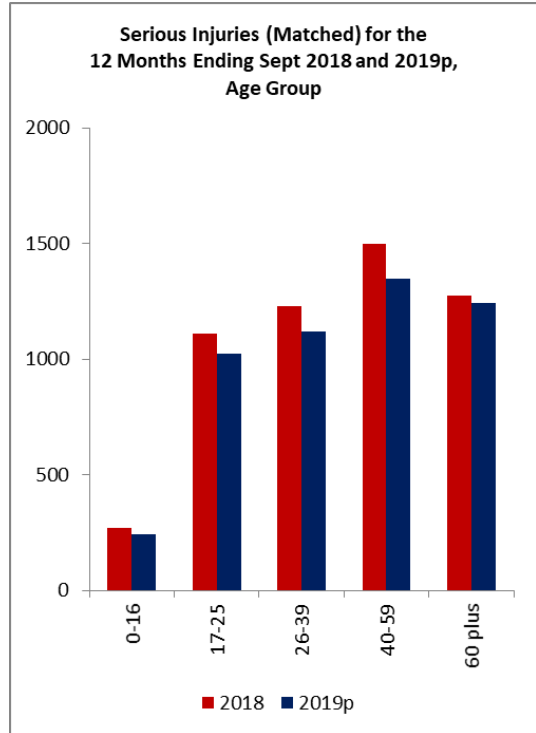
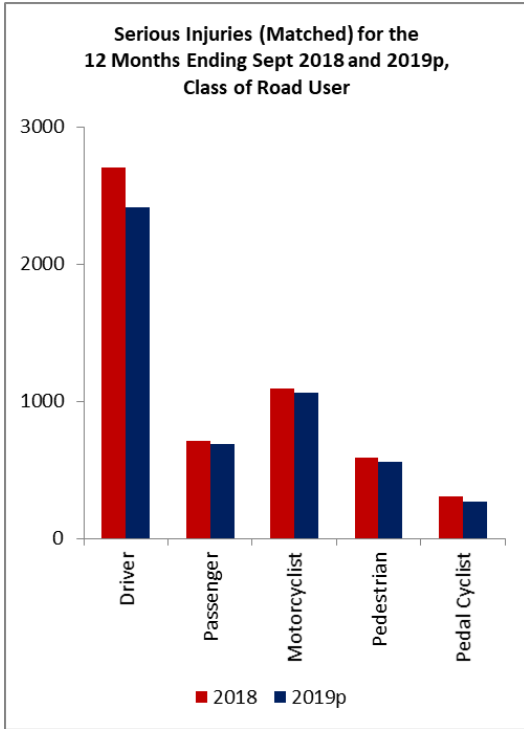
p Preliminary data subject to change.



Serious Injuries (Matched)

	12 months ending Sept 2019 ^p	12 months ending Sept 2018	# Change	% Change
Road User Group				
Driver	2417	2702	-285	-11%
Passenger	686	712	-26	-4%
Motorcyclist	1064	1089	-25	-2%
Pedestrian	556	587	-31	-5%
Pedal Cyclist	271	309	-38	-12%
Other Road User	0	1	-1	-100%
Total	4994	5400	-406	-8%
Age Group				
0-4	24	22	2	9%
5-16	219	250	-31	-12%
17-20	471	533	-62	-12%
21-25	551	579	-28	-5%
26-29	339	415	-76	-18%
30-39	779	813	-34	-4%
40-49	651	726	-75	-10%
50-59	699	771	-72	-9%
60-69	558	546	12	2%
70-79	393	406	-13	-3%
80+	292	322	-30	-9%
Unknown	18	17	1	6%
Total	4994	5400	-406	-8%
Gender				
Male	3166	3398	-232	-7%
Female	1828	2002	-174	-9%
Unknown	0	0	0	n/a
Total	4994	5400	-406	-8%
Urbanisation				
Metropolitan	2941	3152	-211	-7%
Country	2053	2248	-195	-9%
Total	4994	5400	-406	-8%

^p Preliminary data subject to change.



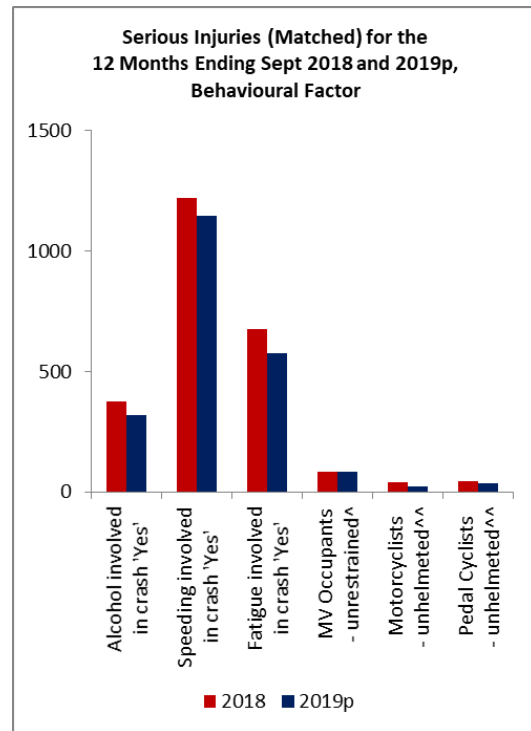
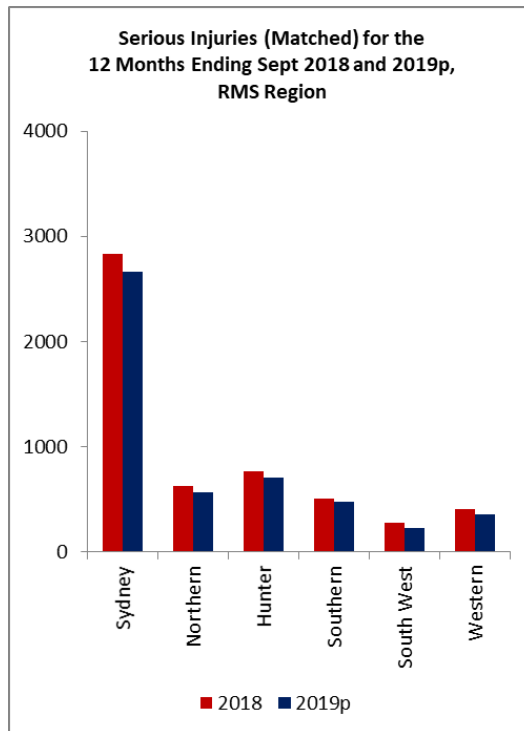
Serious Injuries (Matched) cont....

	12 months ending Sept 2019p	12 months ending Sept 2018	# Change	% Change
RMS Region (CRS)				
Sydney	2663	2837	-174	-6%
Northern	562	621	-59	-10%
Hunter	708	762	-54	-7%
Southern	472	502	-30	-6%
South West	231	272	-41	-15%
Western	358	406	-48	-12%
Total	4994	5400	-406	-8%
Behaviour Factors				
Alcohol involved in crash 'Yes'	319	377	-58	-15%
Speeding involved in crash 'Yes'	1147	1221	-74	-6%
Fatigue involved in crash 'Yes'	577	678	-101	-15%
Safety Device Usage				
Driver - unrestrained^	55	61	-6	-10%
Passenger - unrestrained^	27	21	6	29%
Motor Vehicle Occupants - unrestrained^	82	82	0	0%
Motorcyclists- unhelmeted^^	23	39	-16	-41%
Pedal Cyclists - unhelmeted^^	35	44	-9	-20%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

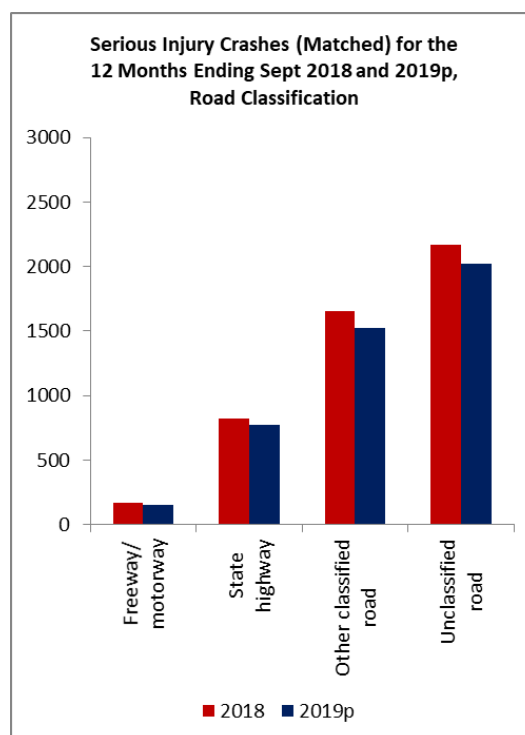
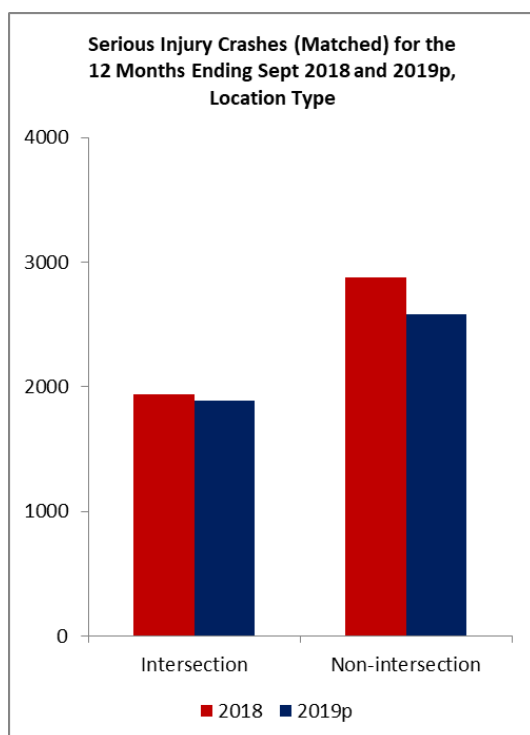


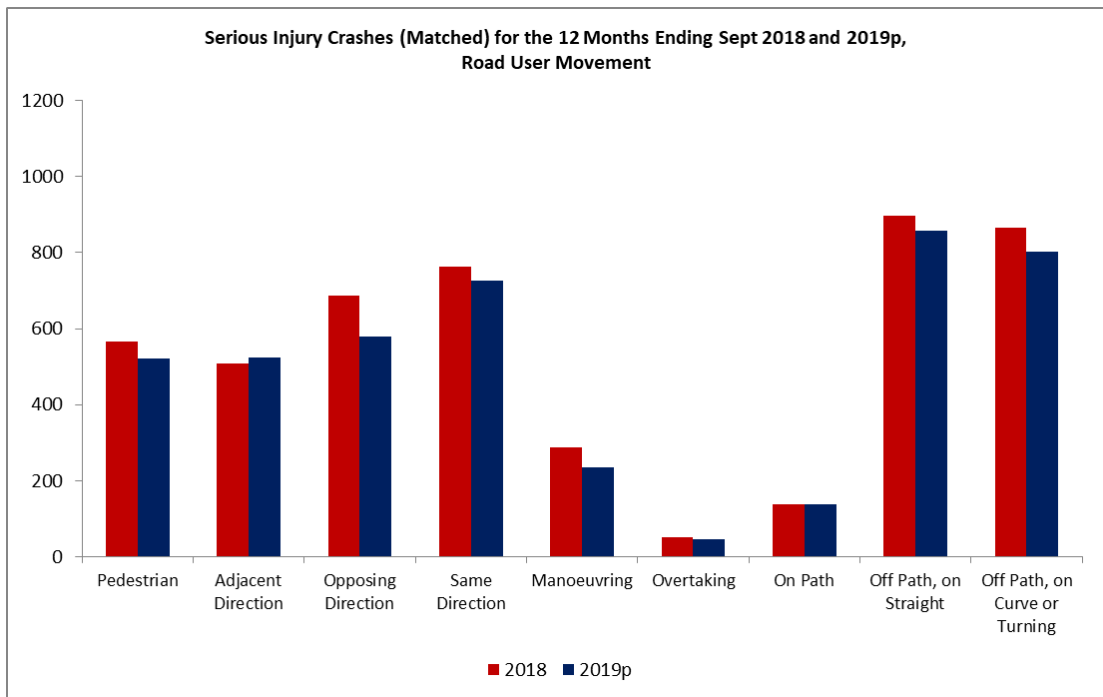
4.2 Serious injury crashes

Serious Injury Crashes (Matched)

	12 months ending Sept 2019p	12 months ending Sept 2018	# Change	% Change
Location type				
Intersection	1887	1939	-52	-3%
Non-intersection	2578	2876	-298	-10%
Total	4465	4815	-350	-7%
Road classification				
Freeway/motorway	149	170	-21	-12%
State highway	775	821	-46	-6%
Other classified road	1521	1656	-135	-8%
Unclassified road	2020	2168	-148	-7%
Total	4465	4815	-350	-7%
Type of crash (RUM)				
Pedestrian	521	565	-44	-8%
Cross Traffic	298	277	21	8%
Other Turning Adjacent	227	231	-4	-2%
Head On (Not O'Taking)	228	280	-52	-19%
Other Turning Opposite	352	408	-56	-14%
Rear End (incl Left and Right Rear)	502	548	-46	-8%
Lane Side Swipe (incl lane change left / right)	168	160	8	5%
Other Turn Side Swipe	57	54	3	6%
Manoeuvring	236	287	-51	-18%
Overtaking	46	50	-4	-8%
On Path	138	139	-1	-1%
Off Path, on Straight	859	897	-38	-4%
Off Path, on Curve or Turning	803	865	-62	-7%
Miscellaneous / Unknown	30	54	-24	-44%
Total	4465	4815	-350	-7%

p Preliminary data subject to change.





5 Annual Statistics

5.1 Serious injuries⁴

		Quarter				Total
		Q1	Q2	Q3	Q4	
Serious Injuries Matched	Year					
	2005	1038	1226	1215	1284	4763
	2006	1272	1246	1235	1256	5009
	2007	1290	1263	1208	1192	4953
	2008	1148	1219	1202	1286	4855
	2009	1218	1226	1166	1294	4904
	2010	1151	1220	1122	1179	4672
	2011	1250	1213	1278	1358	5099
	2012	1329	1364	1326	1392	5411
	2013	1309	1375	1514	1604	5802
	2014	1531	1518	1416	1422	5887
	2015	1416	1386	1357	1407	5566
	2016	1405	1479	1342	1464	5690
	2017	1386	1434	1446	1382	5648
2018	1374	1373	1271	1317	5335	
2019 ^p	1283	1350	1044		3677	
Serious Injuries Not Matched	2005	1197	974	897	1038	4106
	2006	1113	1065	1041	1137	4356
	2007	1215	1147	1044	1078	4484
	2008	1171	1105	973	1166	4415
	2009	1148	1005	1098	1130	4381
	2010	1149	1101	925	1146	4321
	2011	1156	985	942	1096	4179
	2012	1153	1042	1054	1269	4518
	2013	1212	1158	1196	1404	4970
	2014	1378	1132	1142	1335	4987
	2015	1381	1204	1128	1319	5032
	2016	1447	1242	1183	1349	5221
	2017	1376	1285	1341	1454	5456
	2018	1488	1394	1335	1337	5554
2019 ^p	1355	1342	1338		4035	
All Hospitalisations	2005	2235	2200	2112	2322	8869
	2006	2385	2311	2276	2393	9365
	2007	2505	2410	2252	2270	9437
	2008	2319	2324	2175	2452	9270
	2009	2366	2231	2264	2424	9285
	2010	2300	2321	2047	2325	8993
	2011	2406	2198	2220	2454	9278
	2012	2482	2406	2380	2661	9929
	2013	2521	2533	2710	3008	10772
	2014	2909	2650	2558	2757	10874
	2015	2797	2590	2485	2726	10598
	2016	2852	2721	2525	2813	10911
	2017	2762	2719	2787	2836	11104
	2018	2862	2767	2606	2654	10889
2019 ^p	2638	2692	2382		7712	

^p Preliminary data subject to change.

⁴ Serious injuries are estimated to be under-enumerated by about 7 per cent for the latest quarter and are projected to increase by a magnitude of around 160.