



Transport
for NSW

Quarterly Bulletin of Serious Injury Crash Data

Quarter ending September 2020 (preliminary)

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1 Acknowledgements

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- Spinal Cord Injuries Australia for providing coding and data entry service.
- 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 and Workers Compensation claims.
- 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) 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.
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- Department of Justice & Regulation for and on behalf of the State of Victoria, for access to the National Coronial Information System for the verification of fatality information.
- NSW Institute of Trauma and Injury Management for access to information on injury outcomes for road crash related casualties that are considered seriously injured by Health.

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 –

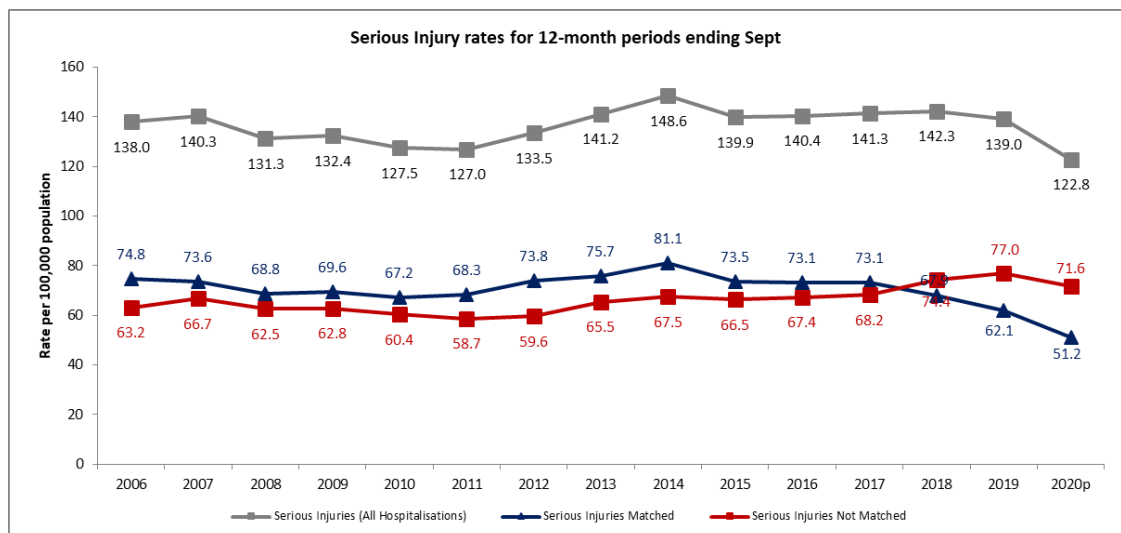
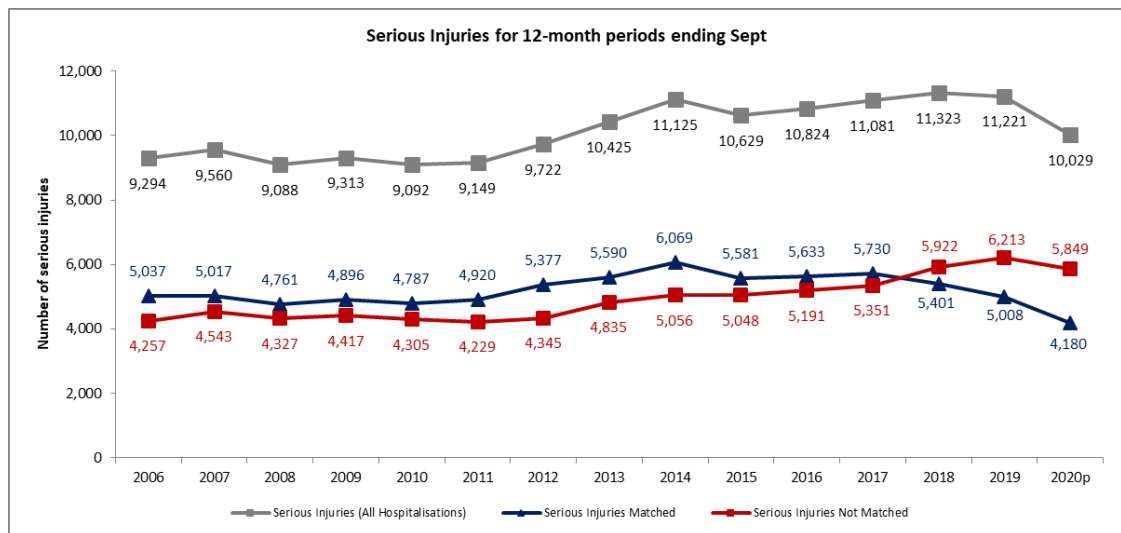
- Approved by the NSW Population & Health Services Research Ethics Committee on 19th December 2013.
- Approved by the Aboriginal Health & Medical Research Council Ethics Committee on 24th January 2014.
- Approved by the ACT Health Human Research Ethics Committee on 13th November 2013.
- Approved by the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

2 Serious Injury Trends

There were a total of 2,538 serious injuries (all hospitalisations) for the September 2020 quarter, 20 (1 per cent) fewer than the September 2019 quarter. Over the 12 month period ending September 2020 there were 10,029 serious injuries (all hospitalisations), 1,192 (11 per cent) fewer than the 12 month period ending September 2019. The serious injury rate for the 12 months ending September 2020 was 122.8 per 100,000 population.

Serious injury numbers and rates for 12-mth period ending September 2020^p

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	10,029	122.8
Serious injuries (matched) ²	4,180	51.2
Serious injuries (not matched) ³	5,849	71.6



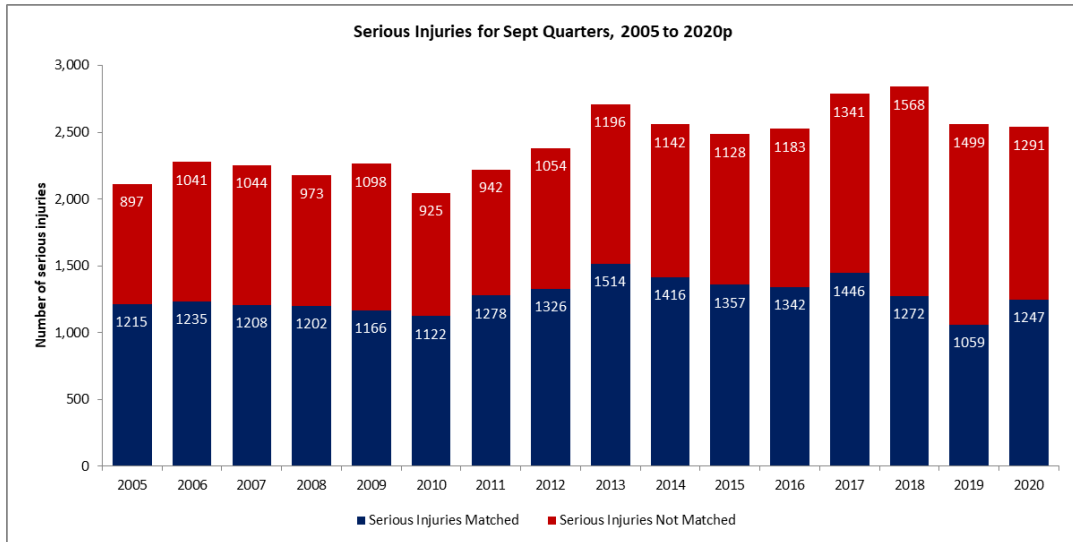
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

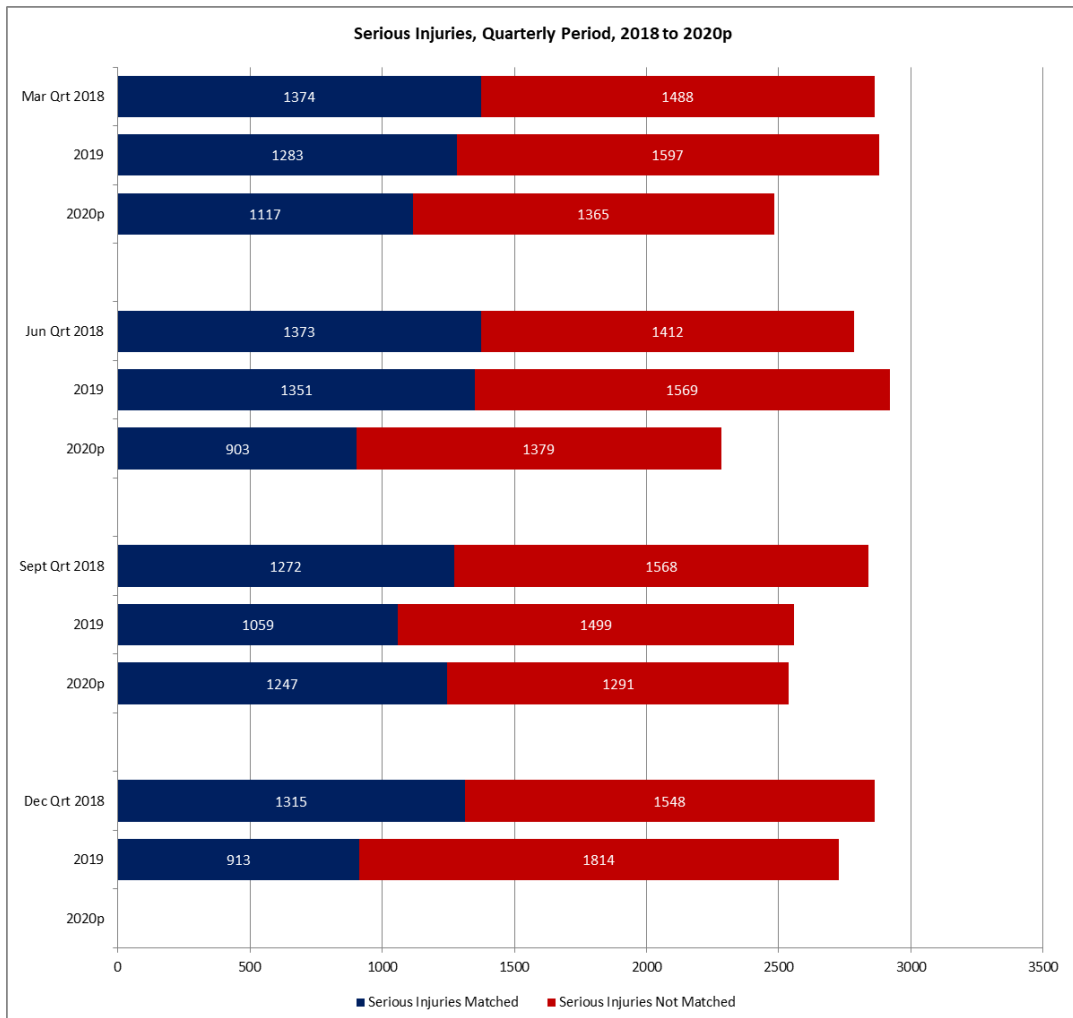
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

3.1 NSW serious injuries for September Quarter: 2005 to 2020p



3.2 NSW serious injuries: quarterly comparison, 2018 to 2020p



4 Rolling 12 Month Statistics

4.1 Serious injuries

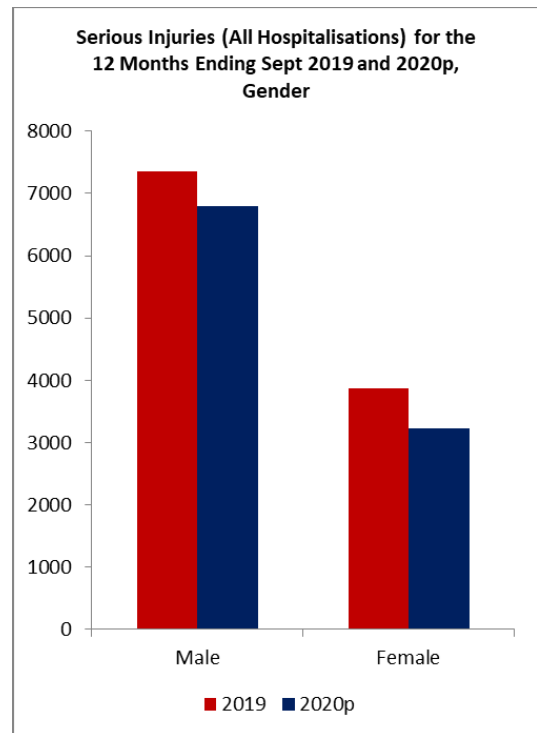
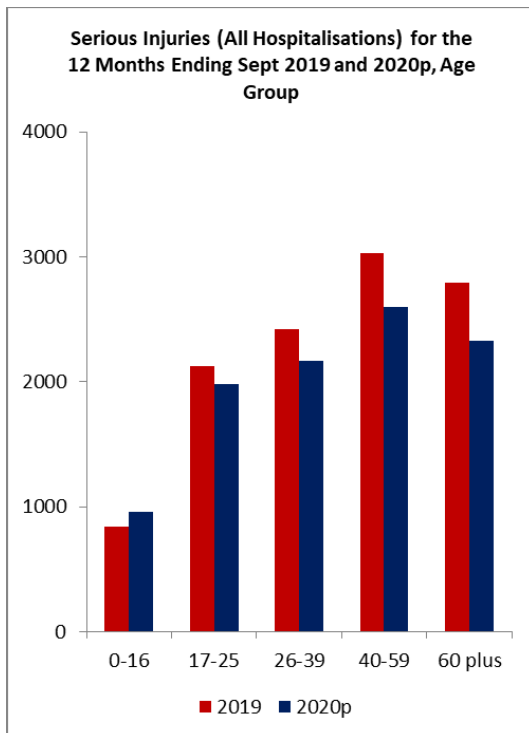
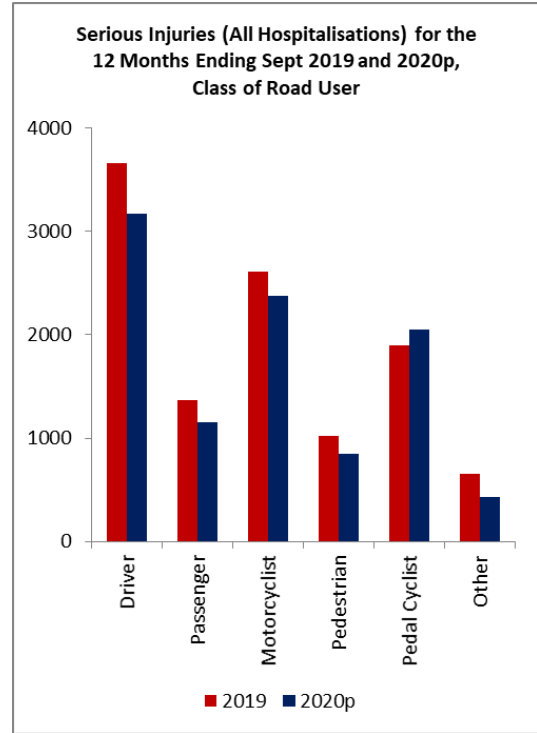
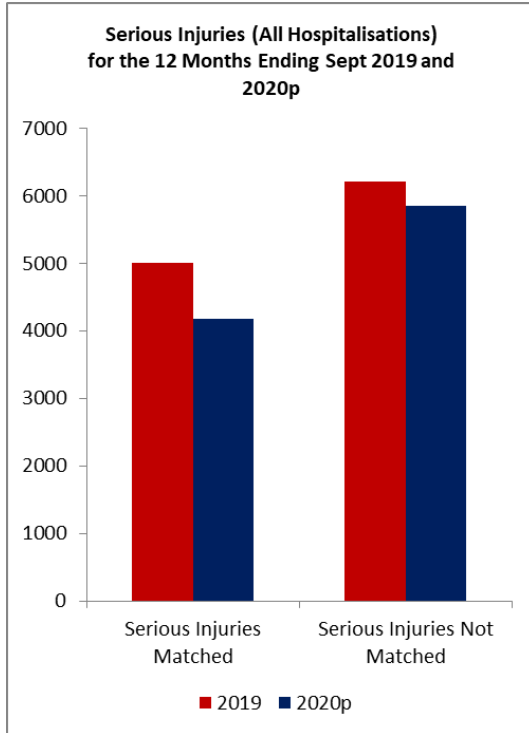
Overall

	12 months ending Sept 2020p	12 months ending Sept 2019	# Change	% Change
Serious Injuries Matched	4180	5008	-828	-17%
Serious Injuries Not Matched	5849	6213	-364	-6%
All Hospitalisations	10029	11221	-1192	-11%

Serious Injuries (All Hospitalisations)

	12 months ending Sept 2020p	12 months ending Sept 2019	# Change	% Change
Road User Group				
Driver	3166	3655	-489	-13%
Passenger	1152	1368	-216	-16%
Motorcyclist	2379	2614	-235	-9%
Pedestrian	848	1025	-177	-17%
Pedal Cyclist	2051	1901	150	8%
Other	433	658	-225	-34%
Total	10029	11221	-1192	-11%
Age Group				
0-4	87	78	9	12%
5-16	873	758	115	15%
17-20	926	966	-40	-4%
21-25	1051	1157	-106	-9%
26-29	737	771	-34	-4%
30-39	1427	1648	-221	-13%
40-49	1350	1593	-243	-15%
50-59	1244	1440	-196	-14%
60-69	1017	1202	-185	-15%
70-79	748	872	-124	-14%
80+	561	718	-157	-22%
Unknown	8	18	-10	-56%
Total	10029	11221	-1192	-11%
Gender				
Male	6799	7356	-557	-8%
Female	3230	3865	-635	-16%
Unknown	0	0	0	n/a
Total	10029	11221	-1192	-11%

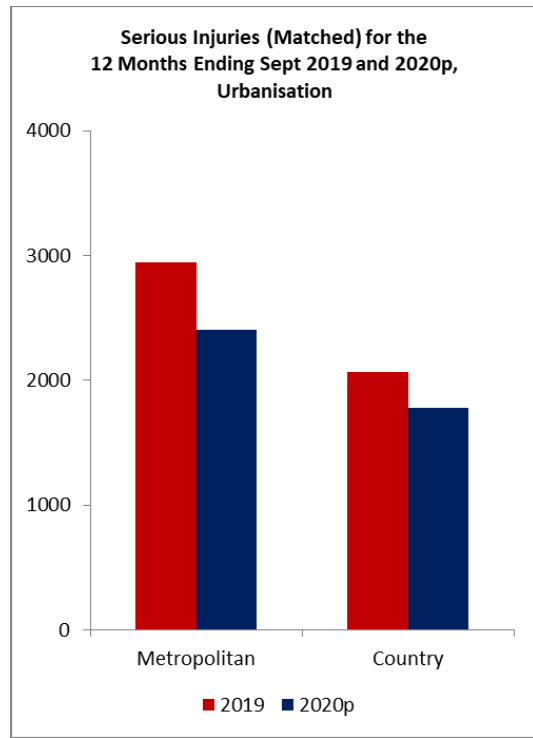
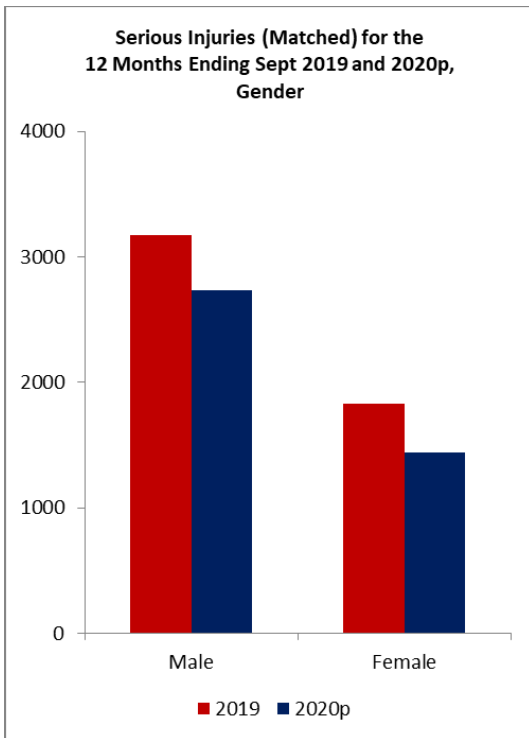
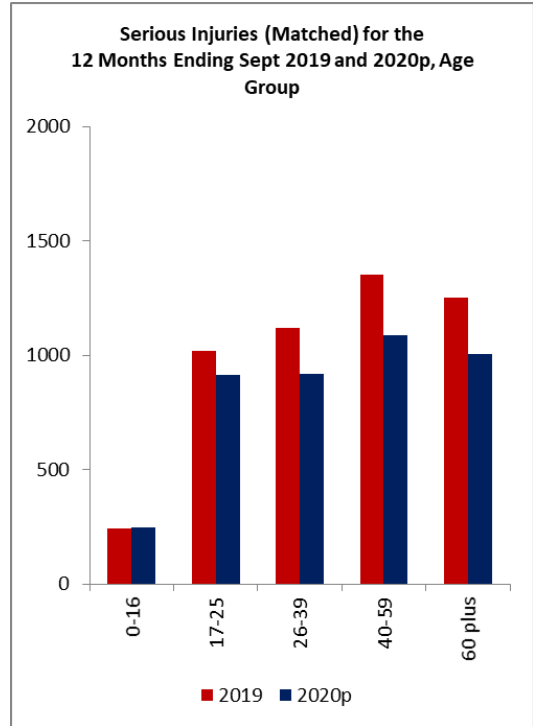
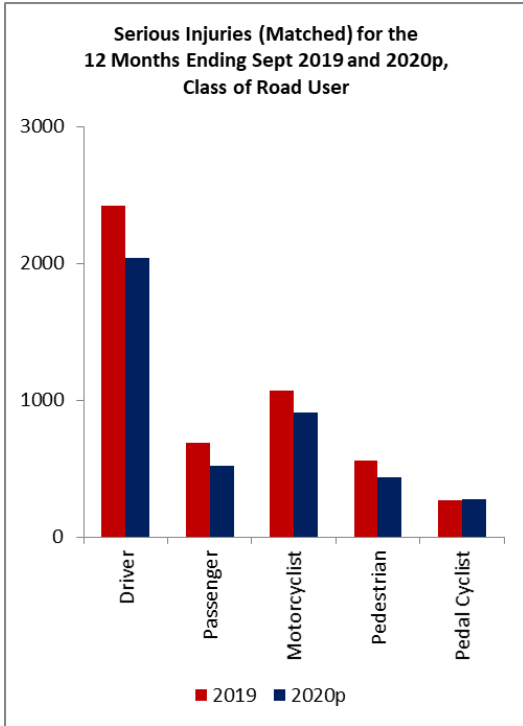
p Preliminary data subject to change.



Serious Injuries (Matched)

	12 months ending Sept 2020p	12 months ending Sept 2019	# Change	% Change
Road User Group				
Driver	2037	2420	-383	-16%
Passenger	520	686	-166	-24%
Motorcyclist	911	1073	-162	-15%
Pedestrian	438	558	-120	-22%
Pedal Cyclist	274	271	3	1%
Other Road User	0	0	0	n/a
Total	4180	5008	-828	-17%
Age Group				
0-4	29	24	5	21%
5-16	217	220	-3	-1%
17-20	441	470	-29	-6%
21-25	473	551	-78	-14%
26-29	317	341	-24	-7%
30-39	602	780	-178	-23%
40-49	538	653	-115	-18%
50-59	550	701	-151	-22%
60-69	443	562	-119	-21%
70-79	312	396	-84	-21%
80+	250	292	-42	-14%
Unknown	8	18	-10	-56%
Total	4180	5008	-828	-17%
Gender				
Male	2737	3175	-438	-14%
Female	1443	1833	-390	-21%
Unknown	0	0	0	n/a
Total	4180	5008	-828	-17%
Urbanisation				
Metropolitan	2403	2946	-543	-18%
Country	1777	2062	-285	-14%
Total	4180	5008	-828	-17%

p Preliminary data subject to change.



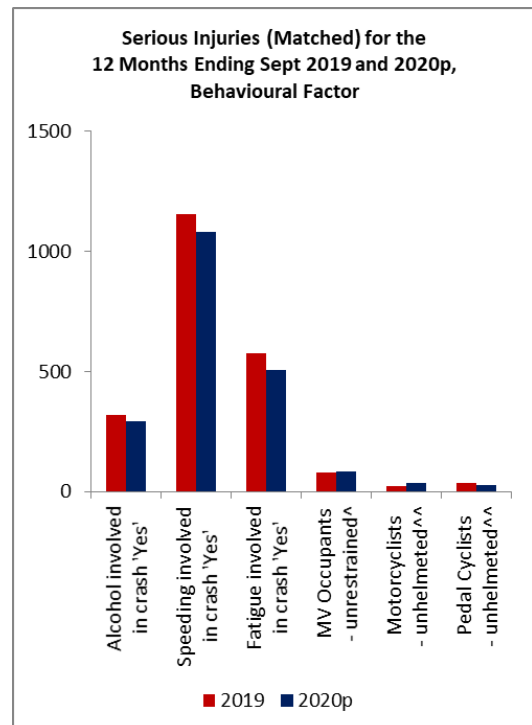
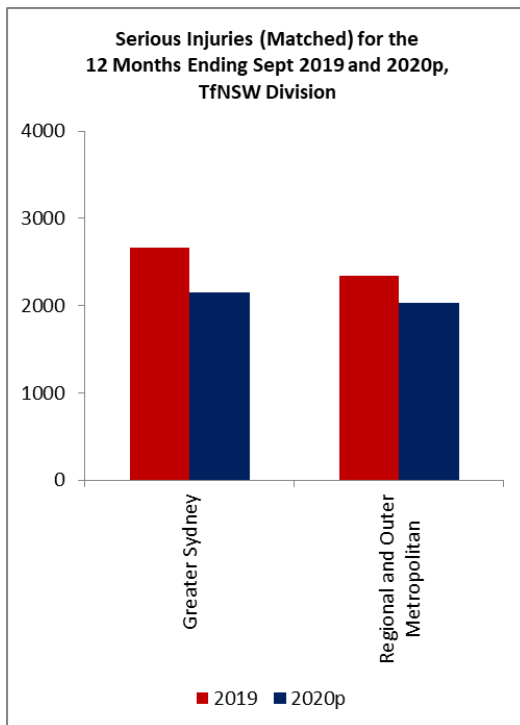
Serious Injuries (Matched) cont....

	12 months ending Sept 2020p	12 months ending Sept 2019	# Change	% Change
Transport Region (CRS)				
Greater Sydney	2146	2667	-521	-20%
Regional and Outer Metropolitan	2034	2341	-307	-13%
North	1178	1275	-97	-8%
South	558	665	-107	-16%
West	298	401	-103	-26%
Total	6214	7349	-1135	-15%
Behaviour Factors				
Alcohol involved in crash 'Yes'	293	319	-26	-8%
Speeding involved in crash 'Yes'	1082	1153	-71	-6%
Fatigue involved in crash 'Yes'	508	578	-70	-12%
Safety Device Usage				
Driver - unrestrained [^]	57	54	3	6%
Passenger - unrestrained [^]	29	26	3	12%
Motor Vehicle Occupants - unrestrained [^]	86	80	6	8%
Motorcyclists- unhelmeted ^{^^}	36	23	13	57%
Pedal Cyclists - unhelmeted ^{^^}	29	35	-6	-17%

[^] belt not worn

^{^^} no helmet worn

p Preliminary data subject to change.

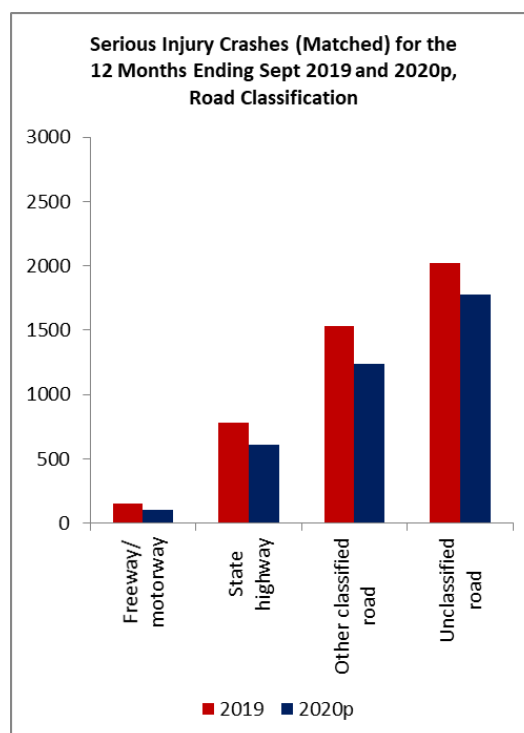
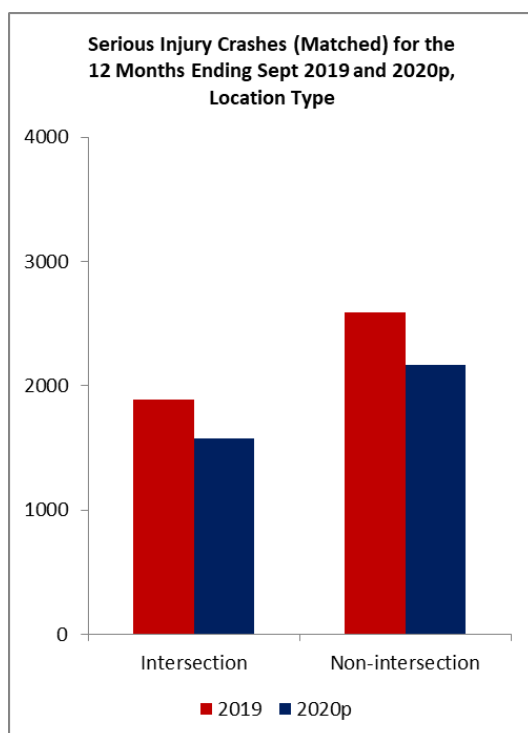


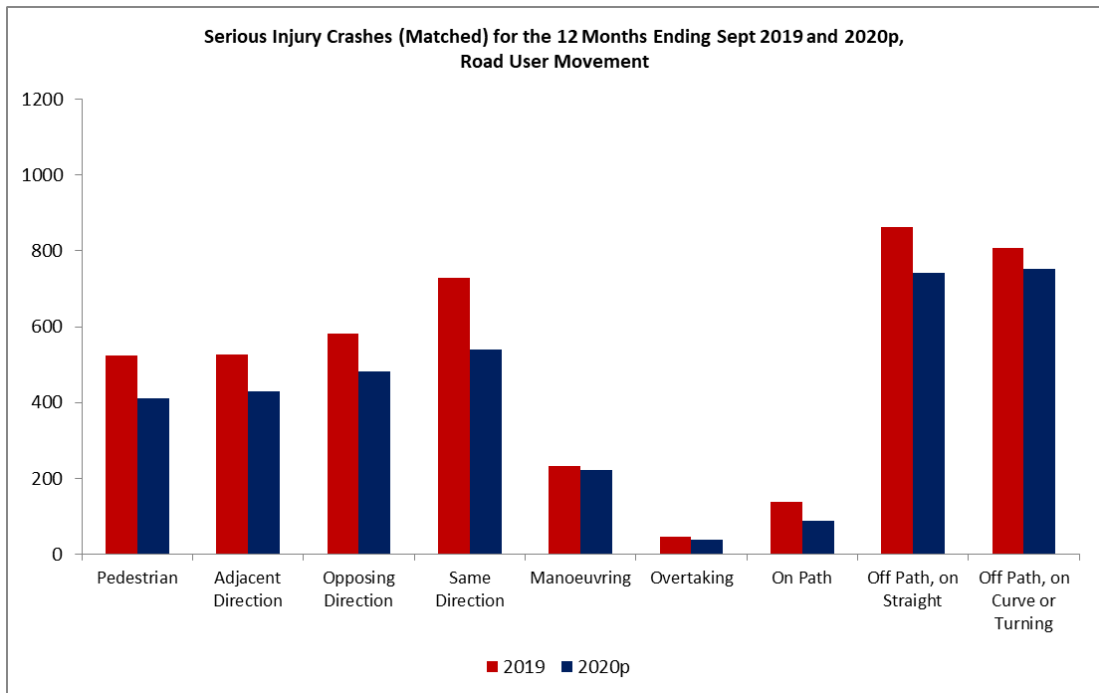
4.2 Serious injury crashes

Serious Injury Crashes (Matched)

	12 months ending Sept 2020p	12 months ending Sept 2019	# Change	% Change
Location type				
Intersection	1572	1892	-320	-17%
Non-intersection	2166	2586	-420	-16%
Total	3738	4478	-740	-17%
Road classification				
Freeway/motorway	106	149	-43	-29%
State highway	613	778	-165	-21%
Other classified road	1241	1531	-290	-19%
Unclassified road	1778	2020	-242	-12%
Total	3738	4478	-740	-17%
Type of crash (RUM)				
Pedestrian	411	523	-112	-21%
Cross Traffic	225	299	-74	-25%
Other Turning Adjacent	204	228	-24	-11%
Head On (Not O'Taking)	200	228	-28	-12%
Other Turning Opposite	283	353	-70	-20%
Rear End (incl Left and Right Rear)	376	503	-127	-25%
Lane Side Swipe (incl lane change left / right)	127	168	-41	-24%
Other Turn Side Swipe	36	57	-21	-37%
Manoeuvring	222	233	-11	-5%
Overtaking	39	46	-7	-15%
On Path	87	139	-52	-37%
Off Path, on Straight	742	863	-121	-14%
Off Path, on Curve or Turning	752	809	-57	-7%
Miscellaneous / Unknown	34	29	5	17%
Total	3738	4478	-740	-17%

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	1272	1315	5334	
2019	1283	1351	1059	913	4606	
2020 ^p	1117	903	1247		3267	
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	1412	1568	1548	6016
2019	1597	1569	1499	1814	6479	
2020 ^p	1365	1379	1291		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	2785	2840	2863	11350
2019	2880	2920	2558	2727	11085	
2020 ^p	2482	2282	2538		7302	

^p Preliminary data subject to change.

⁴ Serious injuries are estimated to be under-enumerated by about 6 per cent for the latest quarter and are projected to increase by a magnitude of around 160.