



Transport
for NSW

Quarterly Bulletin of Serious Injury Crash Data

Quarter ending December 2020 (preliminary)

Contents

1	Acknowledgements	3
2	Serious Injury Trends	4
3	Quarterly Comparison	5
3.1	NSW serious injuries for December Quarter: 2005 to 2020p	5
3.2	NSW serious injuries: quarterly comparison, 2018 to 2020p.....	5
4	Rolling 12 Month Statistics.....	6
4.1	Serious injuries.....	6
4.2	Serious injury crashes	11
5	Annual Statistics	13
5.1	Serious injuries	13

Date:	December Quarter 2020
Version:	1
Division:	Safety, Environment and Regulation
Branch:	Insights and Engagement (Information)
Prepared for:	Centre for Road Safety
Review date:	June 2021

1 Acknowledgements

Transport for NSW wishes to thank the following –

- NSW Police Force for supply of road crash data.
- 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.
- Forensic and Analytical Science Service, NSW Health for providing alcohol and drug test results.
- 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 –

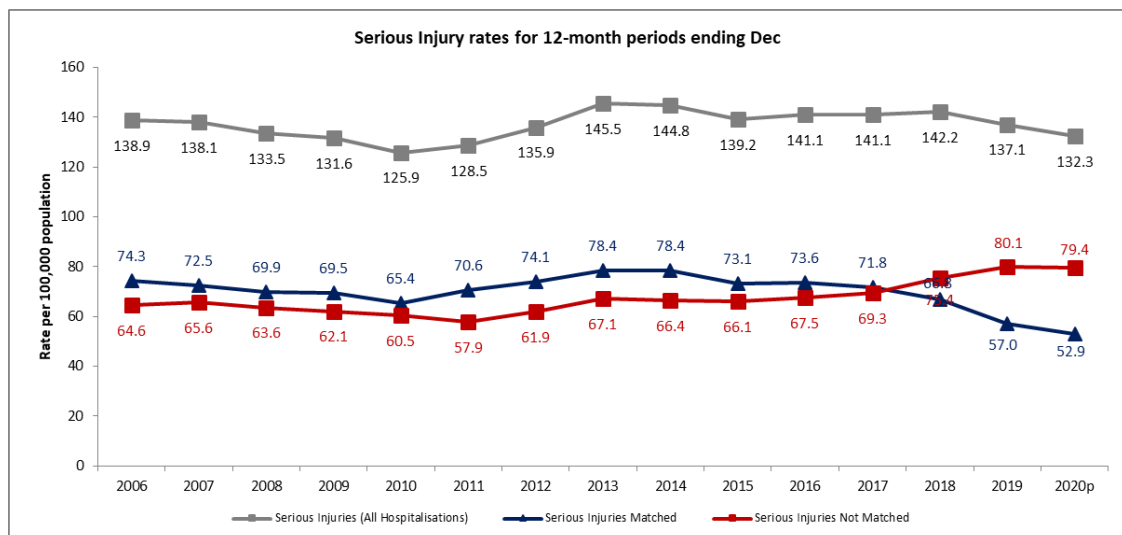
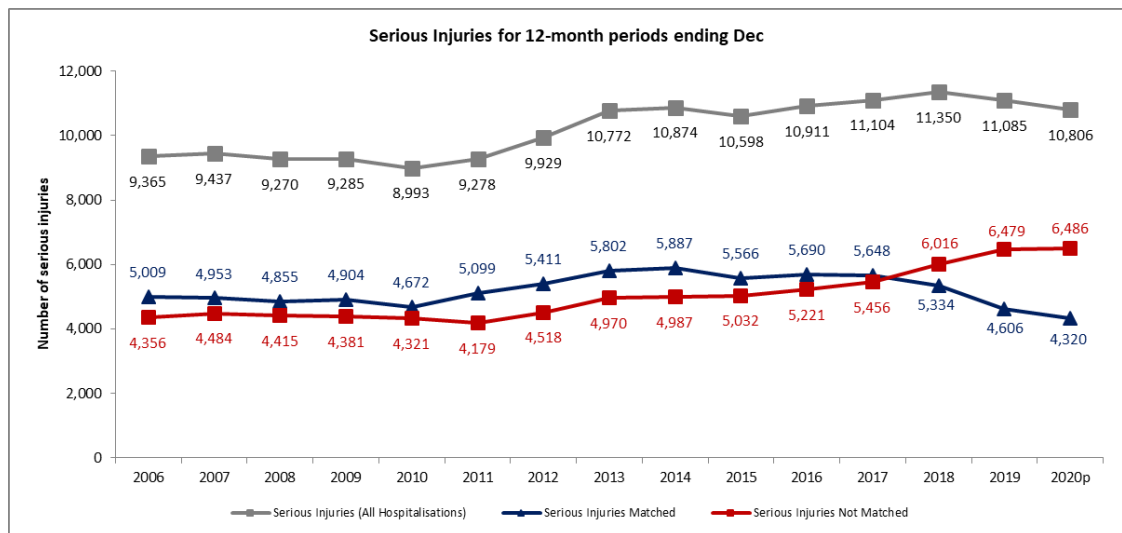
- Approved by the NSW Population & Health Services Research Ethics Committee on 19th December 2013.
- Approved by the Aboriginal Health & Medical Research Council Ethics Committee on 24th January 2014.
- Approved by the ACT Health Human Research Ethics Committee on 13th November 2013.
- Approved by the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

2 Serious Injury Trends

There were a total of 2,475 serious injuries (all hospitalisations) for the December 2020 quarter, 252 (9 per cent) fewer than the December 2019 quarter. Over the 12 month period ending December 2020 there were 10,806 serious injuries (all hospitalisations), 279 (3 per cent) fewer than the 12 month period ending December 2019. The serious injury rate for the 12 months ending December 2020 was 132.3 per 100,000 population.

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

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	10,806	132.3
Serious injuries (matched) ²	4,320	52.9
Serious injuries (not matched) ³	6,486	79.4



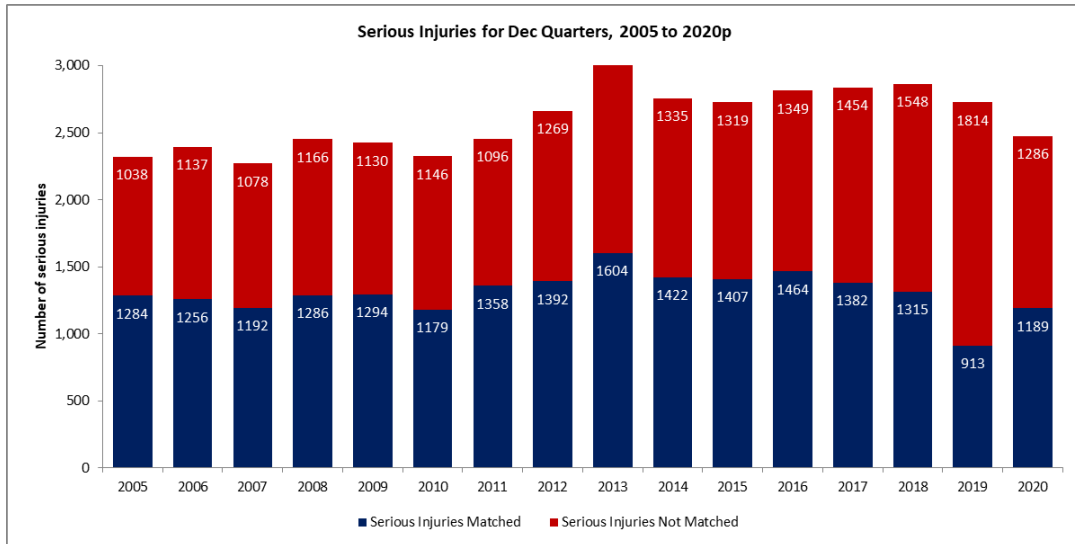
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

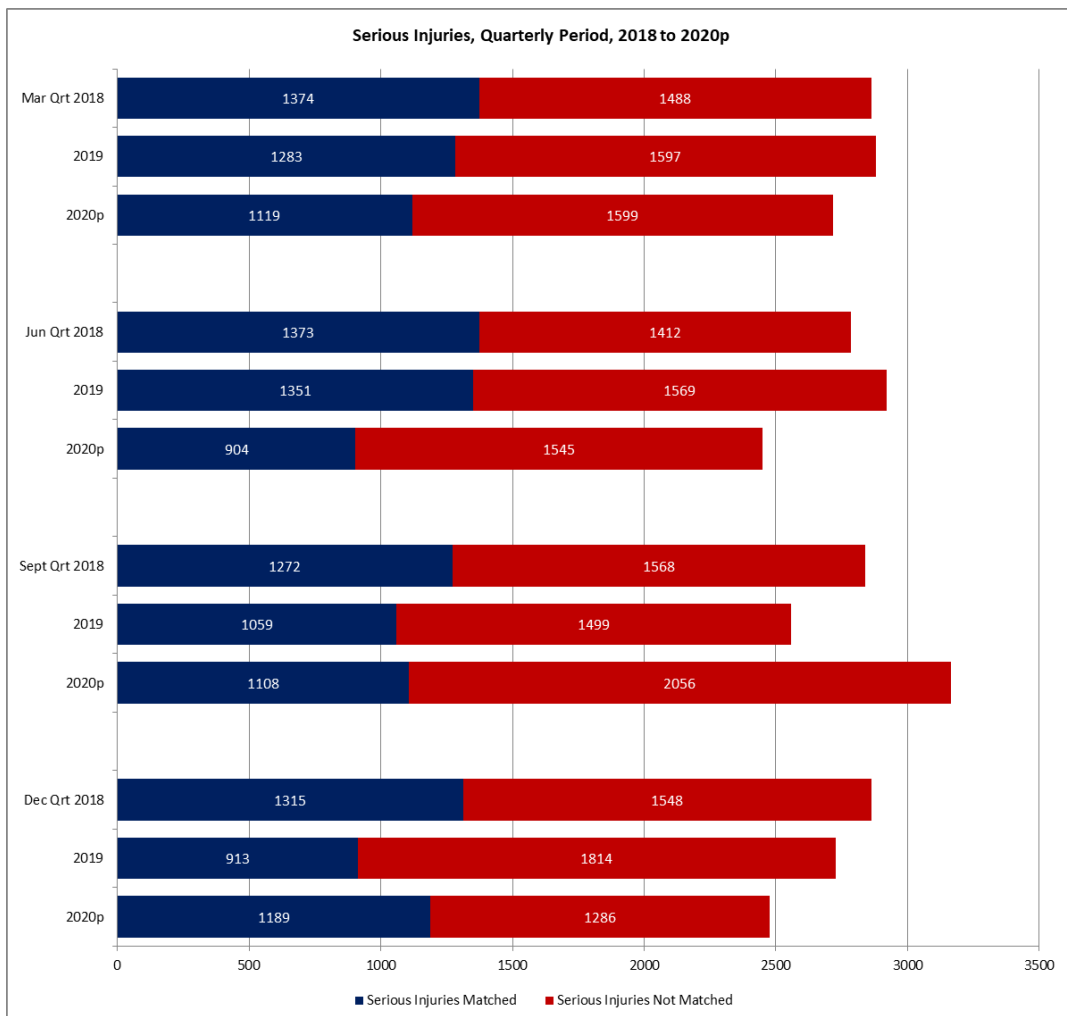
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

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



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



4 Rolling 12 Month Statistics

4.1 Serious injuries

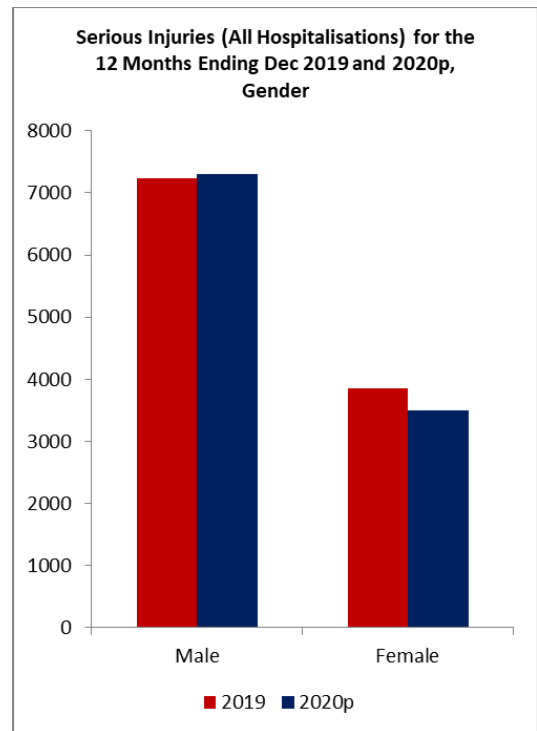
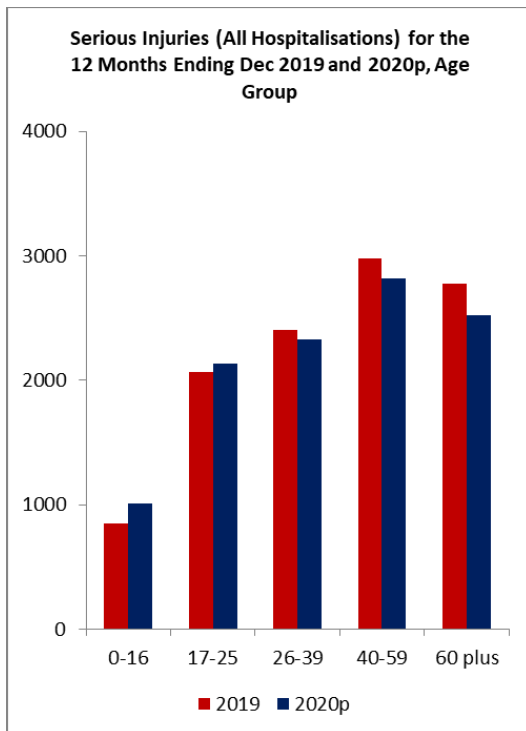
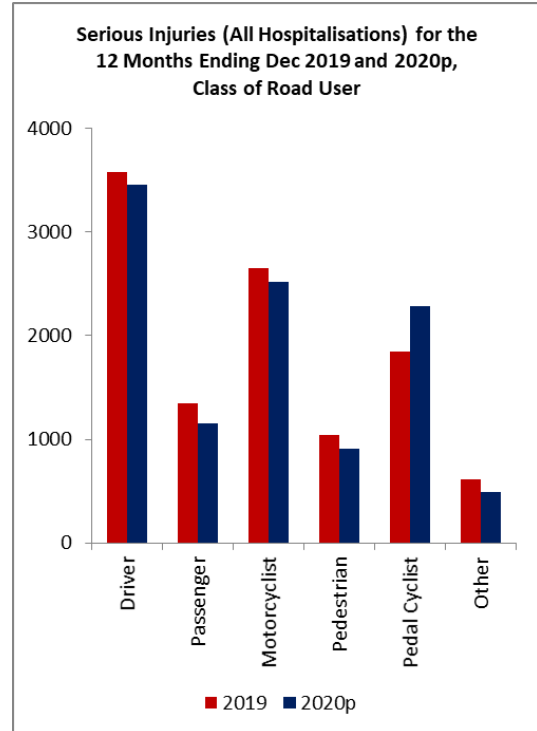
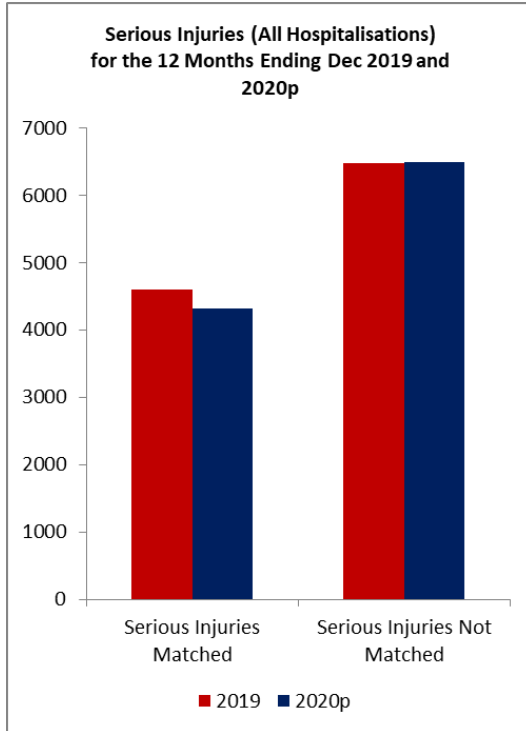
Overall

	12 months ending Dec 2020p	12 months ending Dec 2019	# Change	% Change
Serious Injuries Matched	4320	4606	-286	-6%
Serious Injuries Not Matched	6486	6479	7	0%
All Hospitalisations	10806	11085	-279	-3%

Serious Injuries (All Hospitalisations)

	12 months ending Dec 2020p	12 months ending Dec 2019	# Change	% Change
Road User Group				
Driver	3450	3578	-128	-4%
Passenger	1154	1348	-194	-14%
Motorcyclist	2520	2654	-134	-5%
Pedestrian	911	1045	-134	-13%
Pedal Cyclist	2284	1847	437	24%
Other	487	613	-126	-21%
Total	10806	11085	-279	-3%
Age Group				
0-4	91	80	11	14%
5-16	918	767	151	20%
17-20	999	921	78	8%
21-25	1135	1143	-8	-1%
26-29	766	807	-41	-5%
30-39	1558	1597	-39	-2%
40-49	1449	1559	-110	-7%
50-59	1365	1418	-53	-4%
60-69	1133	1178	-45	-4%
70-79	784	868	-84	-10%
80+	601	731	-130	-18%
Unknown	7	16	-9	-56%
Total	10806	11085	-279	-3%
Gender				
Male	7305	7235	70	1%
Female	3501	3850	-349	-9%
Unknown	0	0	0	n/a
Total	10806	11085	-279	-3%

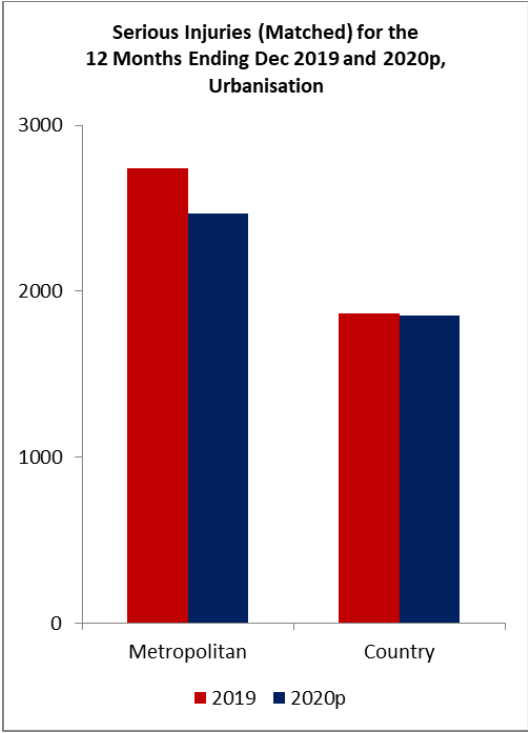
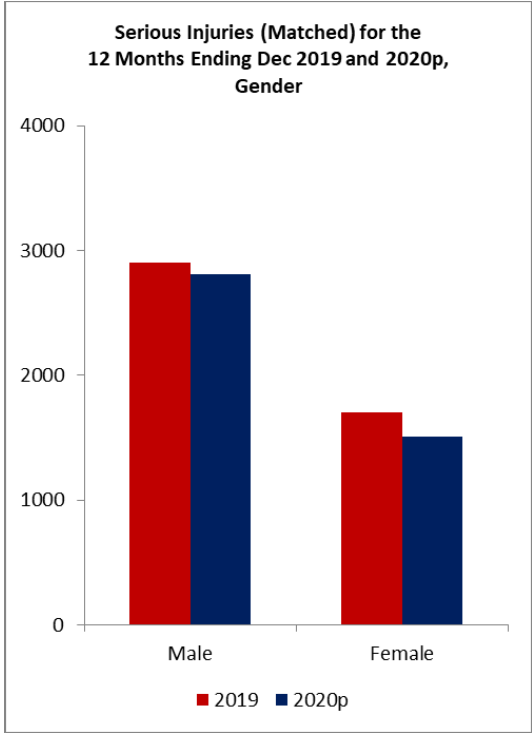
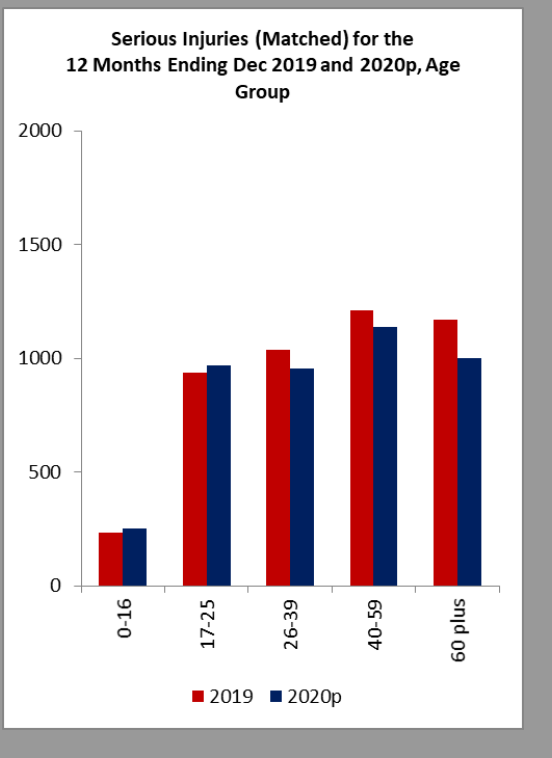
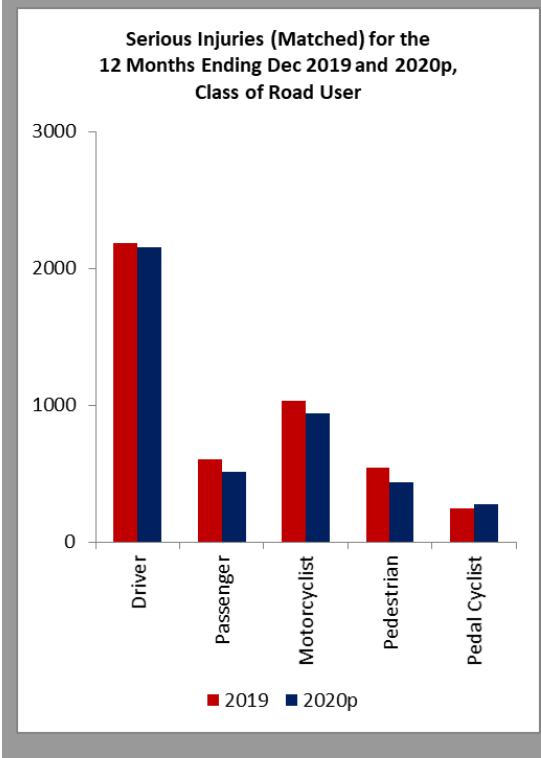
p Preliminary data subject to change.



Serious Injuries (Matched)

	12 months ending Dec 2020p	12 months ending Dec 2019	# Change	% Change
Road User Group				
Driver	2157	2183	-26	-1%
Passenger	514	604	-90	-15%
Motorcyclist	936	1030	-94	-9%
Pedestrian	434	542	-108	-20%
Pedal Cyclist	279	247	32	13%
Other Road User	0	0	0	n/a
Total	4320	4606	-286	-6%
Age Group				
0-4	32	18	14	78%
5-16	220	214	6	3%
17-20	467	419	48	11%
21-25	504	518	-14	-3%
26-29	336	340	-4	-1%
30-39	617	699	-82	-12%
40-49	574	580	-6	-1%
50-59	563	633	-70	-11%
60-69	442	535	-93	-17%
70-79	307	366	-59	-16%
80+	251	268	-17	-6%
Unknown	7	16	-9	-56%
Total	4320	4606	-286	-6%
Gender				
Male	2808	2900	-92	-3%
Female	1512	1706	-194	-11%
Unknown	0	0	0	n/a
Total	4320	4606	-286	-6%
Urbanisation				
Metropolitan	2468	2741	-273	-10%
Country	1852	1865	-13	-1%
Total	4320	4606	-286	-6%

p Preliminary data subject to change.



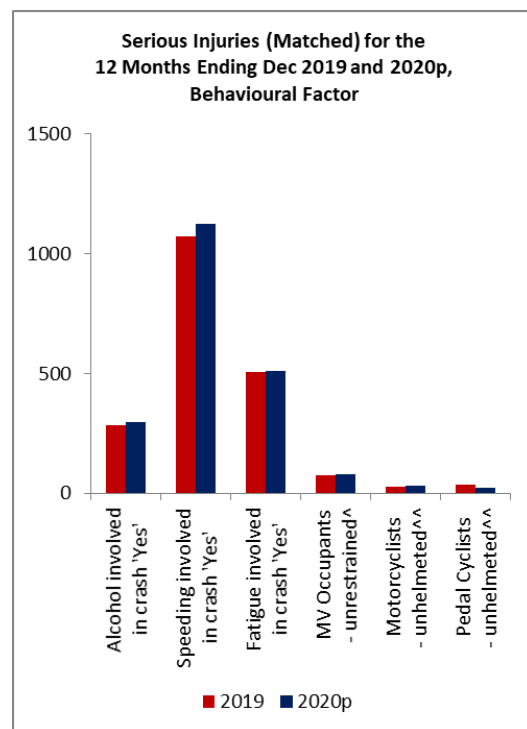
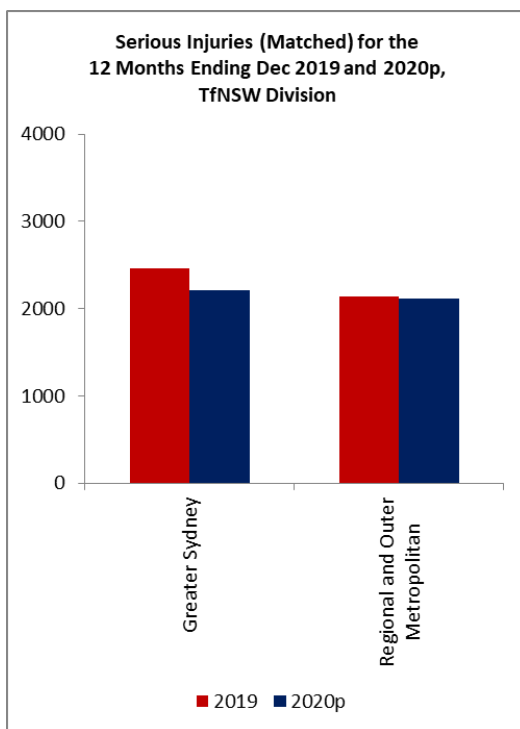
Serious Injuries (Matched) cont....

	12 months ending Dec 2020p	12 months ending Dec 2019	# Change	% Change
TfNSW Division				
Greater Sydney	2210	2467	-257	-10%
Regional and Outer Metropolitan	2110	2139	-29	-1%
North	1229	1201	28	2%
South	578	596	-18	-3%
West	303	342	-39	-11%
Total	4320	4606	-286	-6%
Behaviour Factors				
Alcohol involved in crash 'Yes'	297	285	12	4%
Speeding involved in crash 'Yes'	1124	1071	53	5%
Fatigue involved in crash 'Yes'	510	506	4	1%
Safety Device Usage				
Driver - unrestrained^	57	49	8	16%
Passenger - unrestrained^	23	25	-2	-8%
Motor Vehicle Occupants - unrestrained^	80	74	6	8%
Motorcyclists- unhelmeted^^	32	27	5	19%
Pedal Cyclists - unhelmeted^^	23	37	-14	-38%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

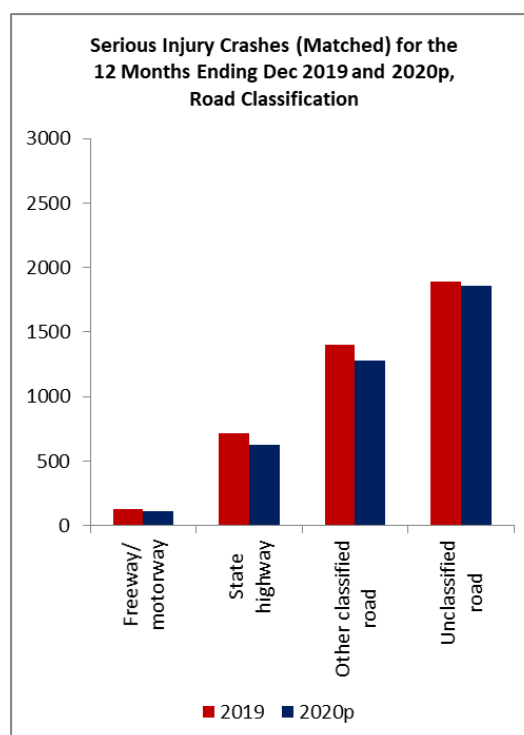
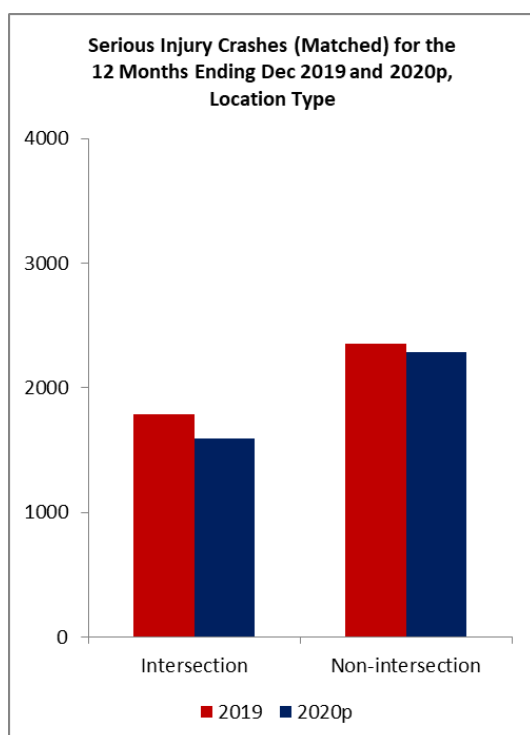


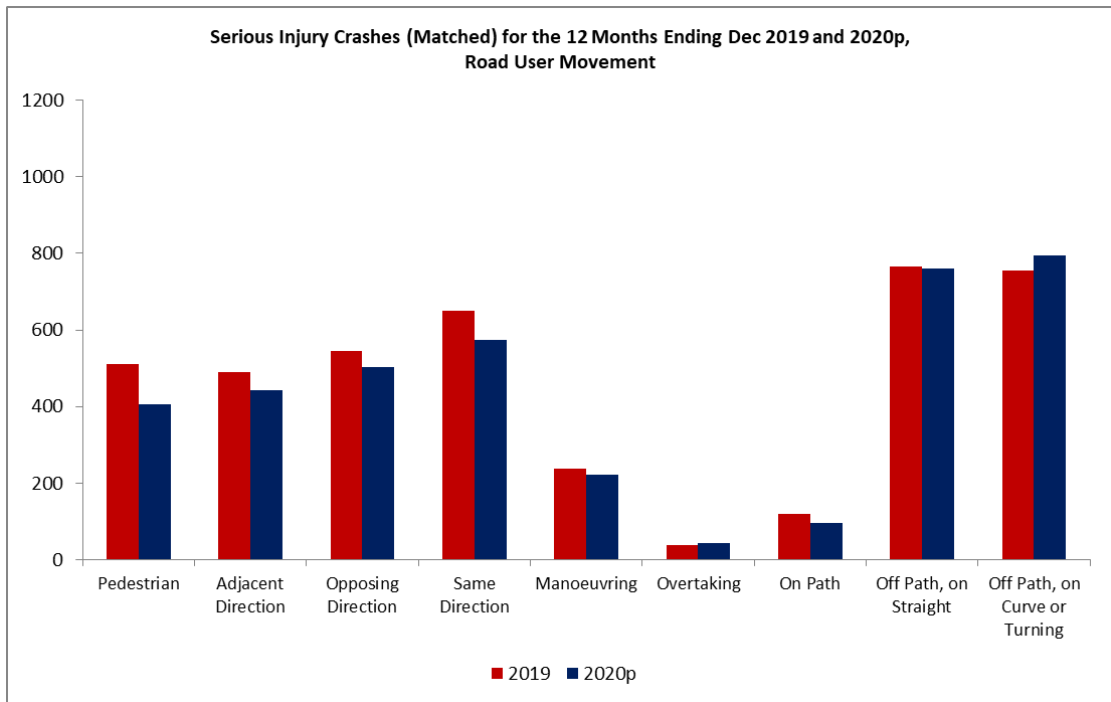
4.2 Serious injury crashes

Serious Injury Crashes (Matched)

	12 months ending Dec 2020p	12 months ending Dec 2019	# Change	% Change
Location type				
Intersection	1592	1786	-194	-11%
Non-intersection	2288	2354	-66	-3%
Total	3880	4140	-260	-6%
Road classification				
Freeway/motorway	112	130	-18	-14%
State highway	626	714	-88	-12%
Other classified road	1282	1404	-122	-9%
Unclassified road	1860	1892	-32	-2%
Total	3880	4140	-260	-6%
Type of crash (RUM)				
Pedestrian	405	511	-106	-21%
Cross Traffic	232	276	-44	-16%
Other Turning Adjacent	210	213	-3	-1%
Head On (Not O'Taking)	227	208	19	9%
Other Turning Opposite	277	338	-61	-18%
Rear End (incl Left and Right Rear)	410	452	-42	-9%
Lane Side Swipe (incl lane change left / right)	126	157	-31	-20%
Other Turn Side Swipe	37	41	-4	-10%
Manoeuvring	223	239	-16	-7%
Overtaking	42	37	5	14%
On Path	97	120	-23	-19%
Off Path, on Straight	760	766	-6	-1%
Off Path, on Curve or Turning	796	754	42	6%
Miscellaneous / Unknown	38	28	10	36%
Total	3880	4140	-260	-6%

p Preliminary data subject to change.





5 Annual Statistics

5.1 Serious injuries

		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	1119	904	1108	1189	4320	
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	1599	1545	2056	1286	6486
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	2718	2449	3164	2475	10806

^p Preliminary data subject to change.