



Quarterly Bulletin of Serious Injury Crash Data

Quarter ending December 2022 (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.
- 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 –

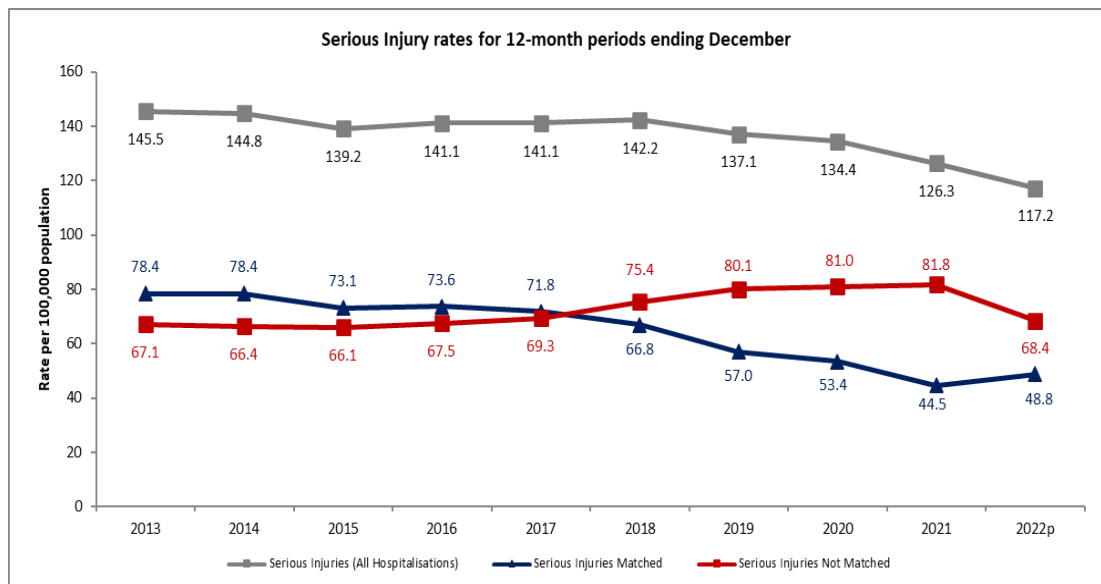
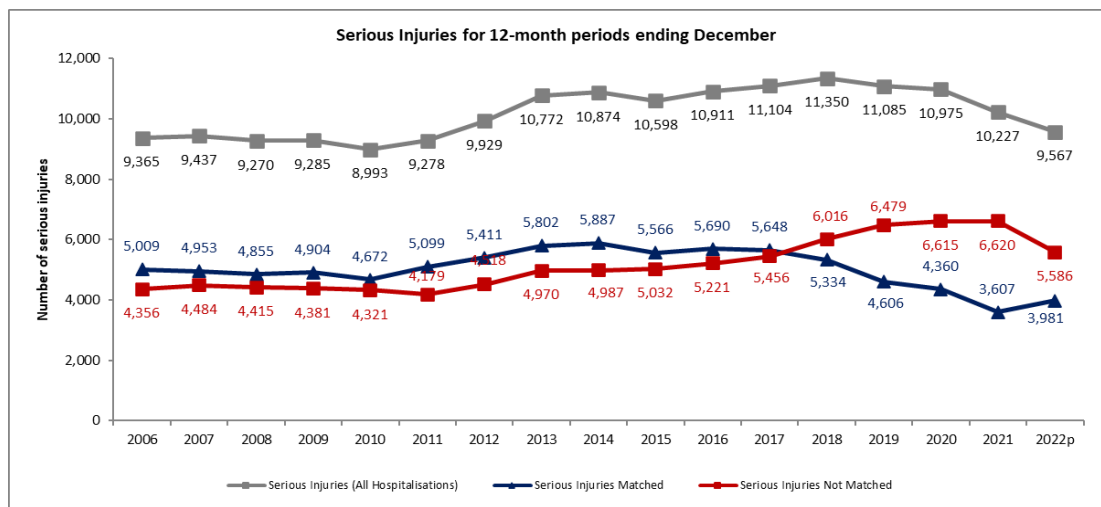
- Approved by the NSW Population & Health Services Research Ethics Committee on 19th December 2013.
- Approved by the Aboriginal Health & Medical Research Council Ethics Committee on 24th January 2014.
- Approved by the ACT Health Human Research Ethics Committee on 13th November 2013.
- Approved by the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

2 Serious Injury Trends

There were 2,366 serious injuries (all hospitalisations) for the December 2022 quarter, 76 (3 per cent) fewer than the December 2021 quarter. Over the 12-month period ending December 2022 there were 9,567 serious injuries (all hospitalisations), 660 fewer than the 12-month period ending December 2021. The serious injury rate for the 12-months ending December 2022 was 117.2 per 100,000 population.

Serious injury numbers and rates for 12-mth period ending December 2022p

	Number	Rate per 100,000 population ¹
Serious injuries (all hospitalisations)	9,567	117.2
Serious injuries (matched) ²	3,981	48.8
Serious injuries (not matched) ³	5,586	68.4



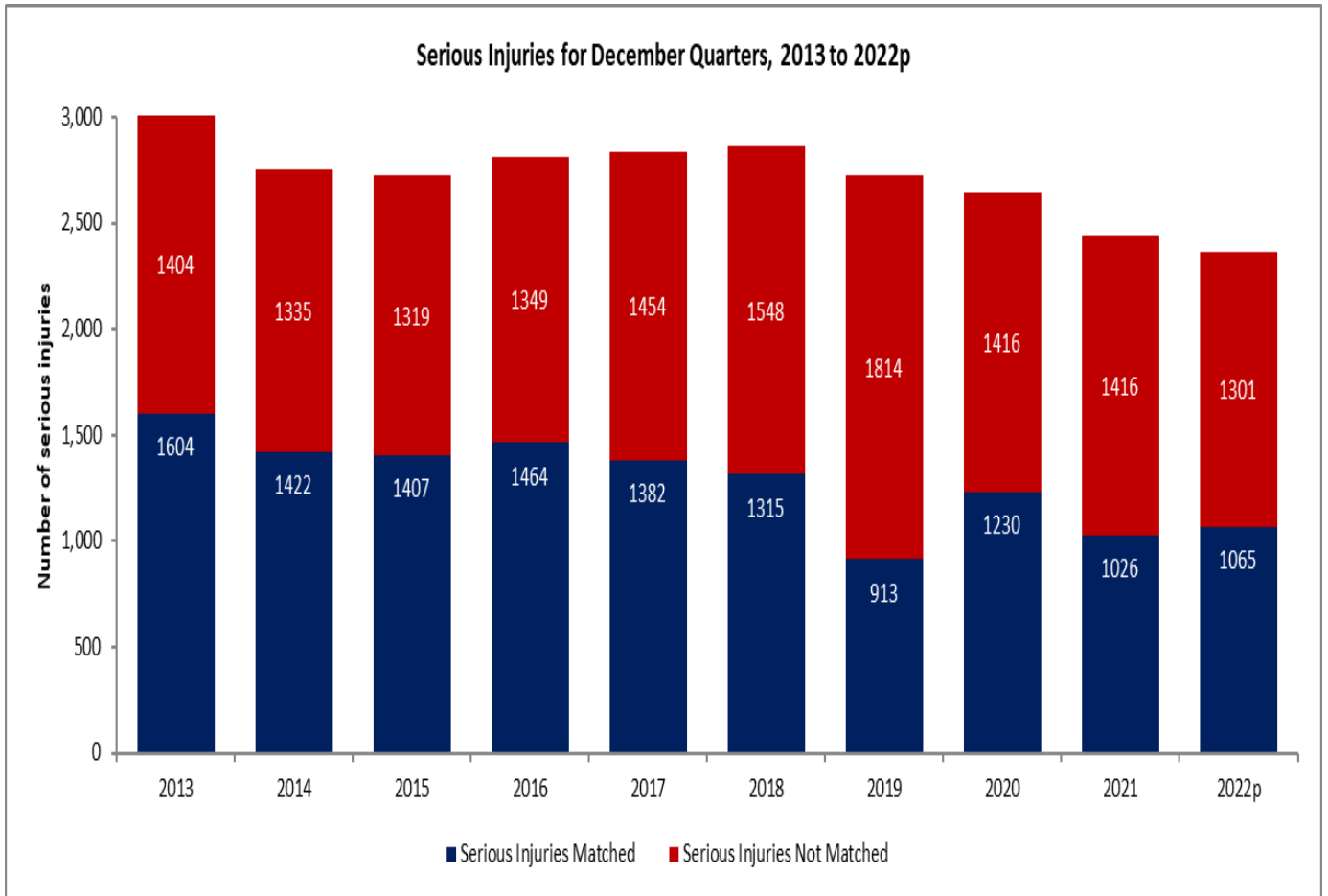
¹ Based on preliminary estimated population data

² Serious injuries matched to a police crash report

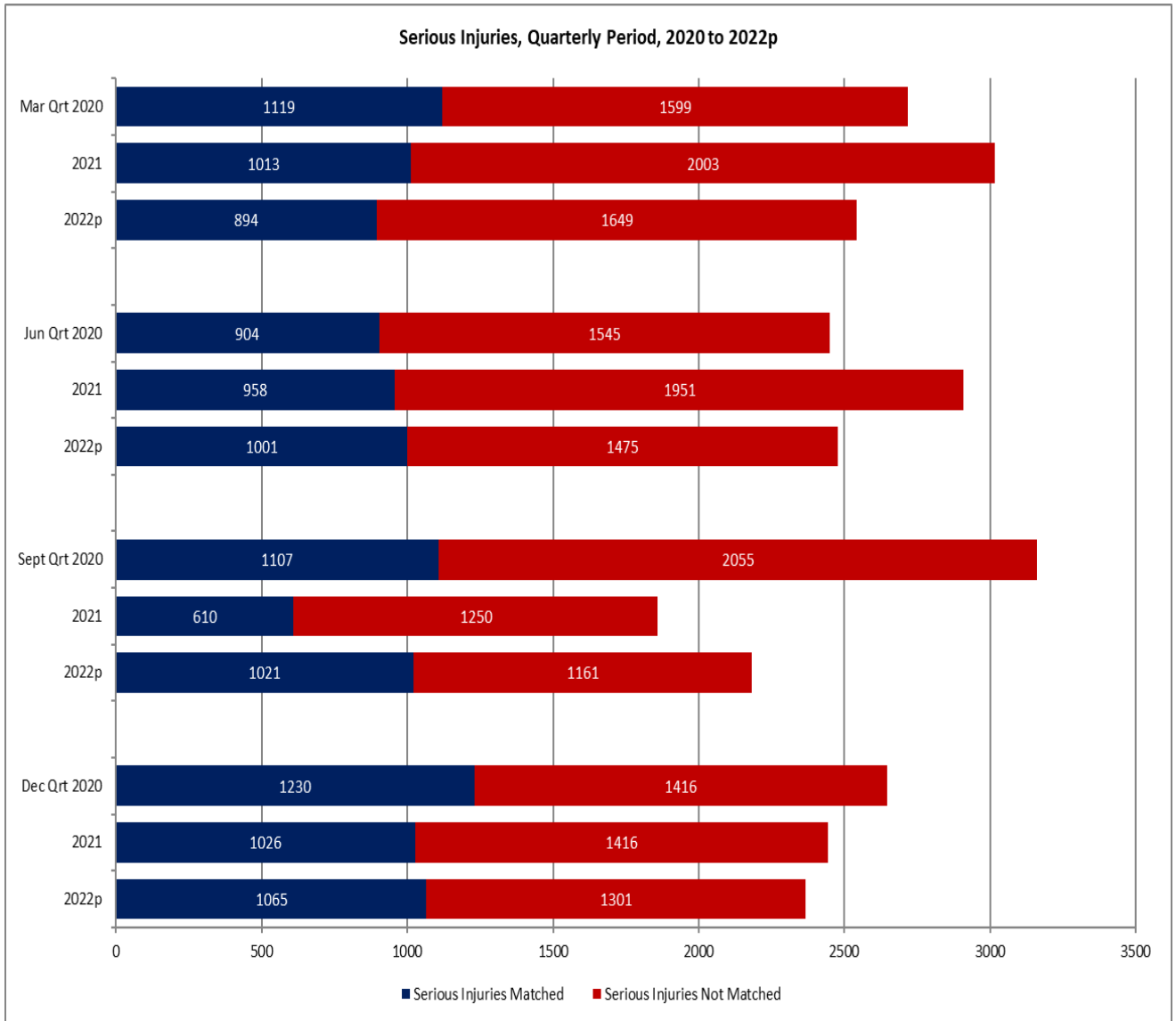
³ Serious injuries not matched to a police crash report

3 Quarterly Comparison

3.1 NSW serious injuries for September Quarter: 2013 to 2022p



3.2 NSW Serious Injuries: Quarterly comparison, 2020 to 2022p



4 Rolling 12 Month Statistics

4.1 Serious injuries

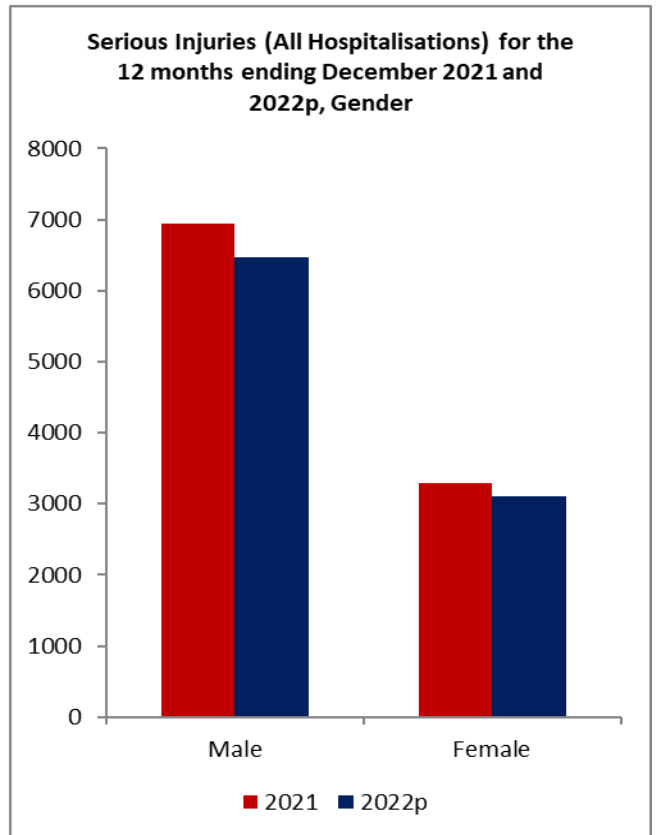
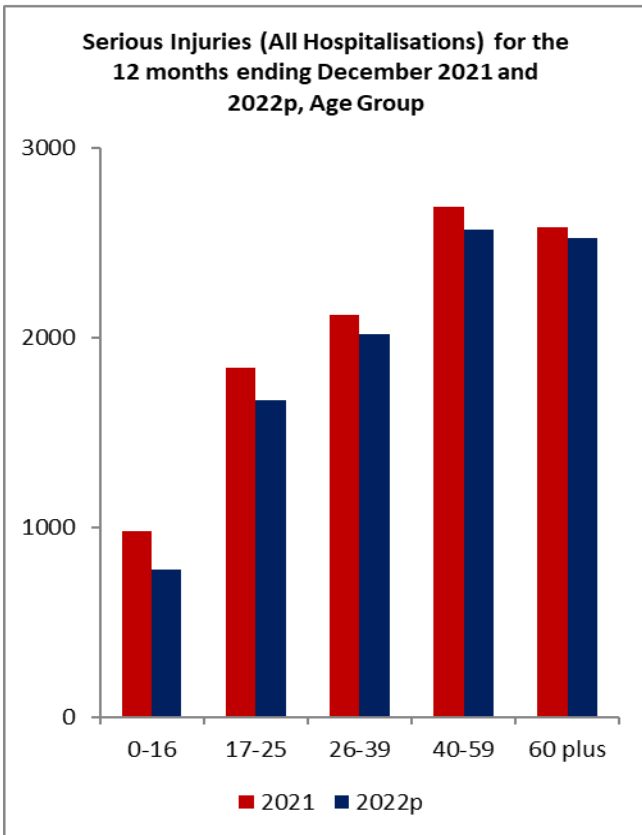
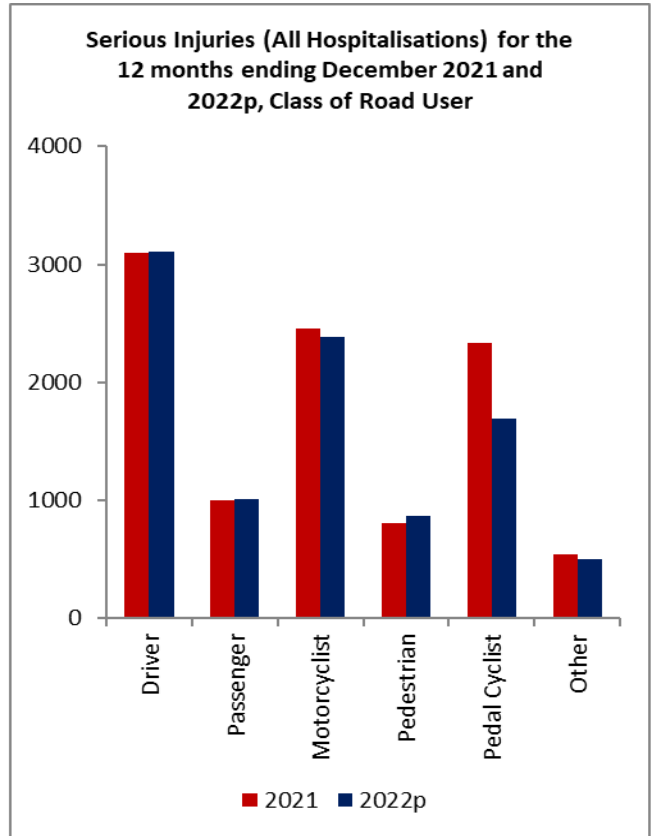
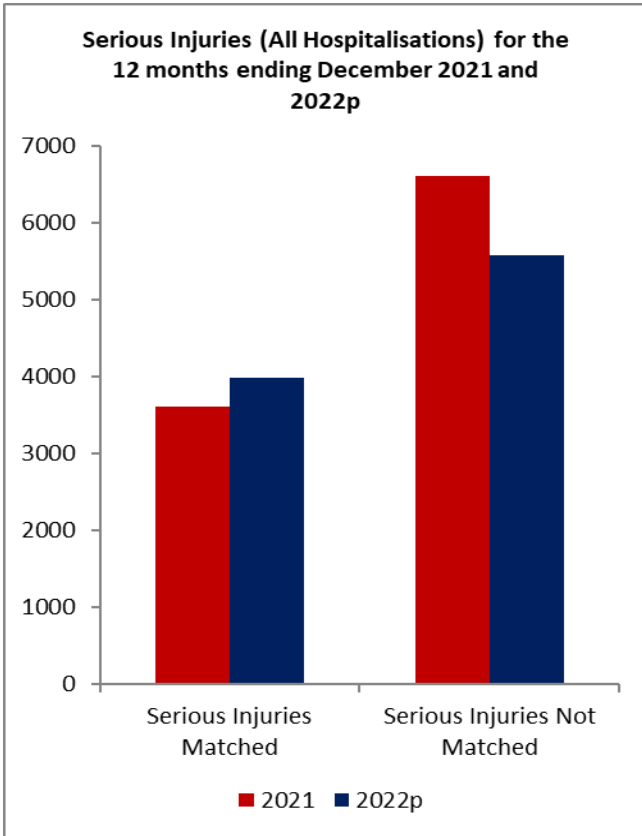
Overall

	12 months ending Dec 2022p	12 months ending Dec 2021	# Change	% Change
Serious Injuries Matched	3981	3607	374	10%
Serious Injuries Not Matched	5586	6620	-1034	-16%
All Hospitalisations	9567	10227	-660	-6%

Serious Injuries (All Hospitalisations)

	12 months ending Dec 2022p	12 months ending Dec 2021	# Change	% Change
Road User Group				
Driver	3106	3099	7	0%
Passenger	1012	1001	11	1%
Motorcyclist	2389	2453	-64	-3%
Pedestrian	870	802	68	8%
Pedal Cyclist	1687	2330	-643	-28%
Other	503	542	-39	-7%
Total	9567	10227	-660	-6%
Age Group				
0-4	54	73	-19	-26%
5-16	723	909	-186	-20%
17-20	809	873	-64	-7%
21-25	859	970	-111	-11%
26-29	683	692	-9	-1%
30-39	1336	1427	-91	-6%
40-49	1264	1367	-103	-8%
50-59	1304	1324	-20	-2%
60-69	1132	1157	-25	-2%
70-79	809	824	-15	-2%
80+	586	600	-14	-2%
Unknown	8	11	-3	-27%
Total	9567	10227	-660	-6%
Gender				
Male	6465	6942	-477	-7%
Female	3101	3284	-183	-6%
Unknown	1	1	0	0%
Total	9567	10227	-660	-6%

p Preliminary data subject to change.

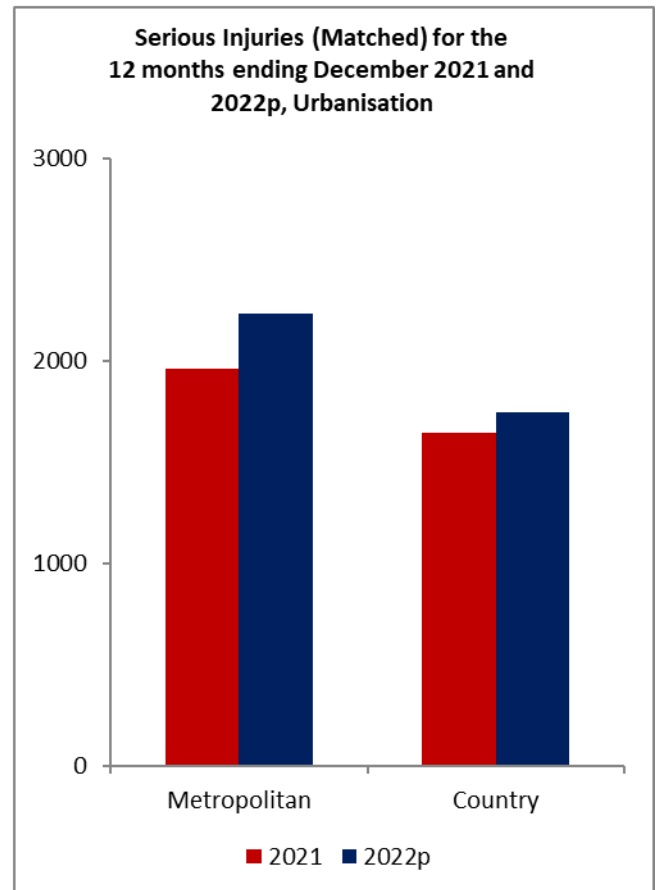
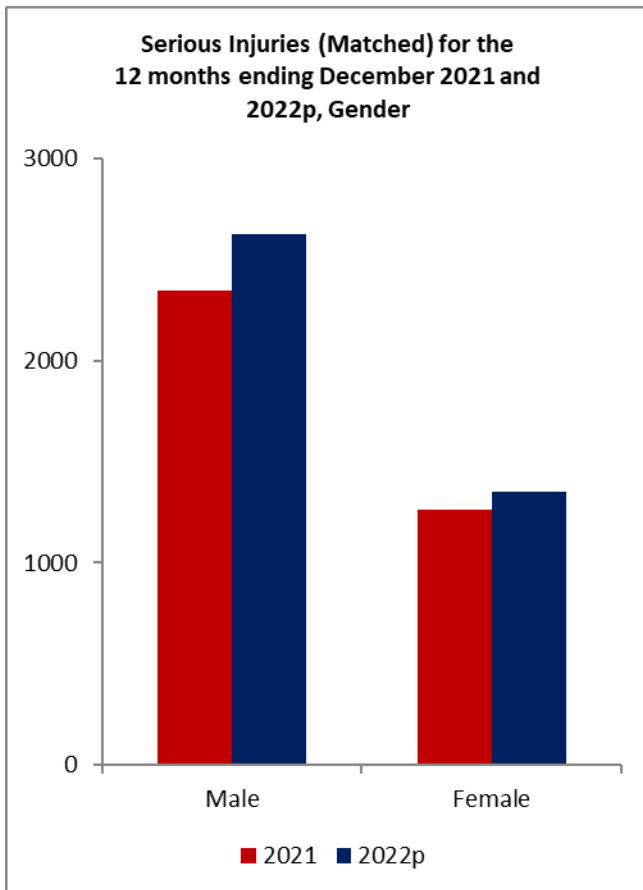
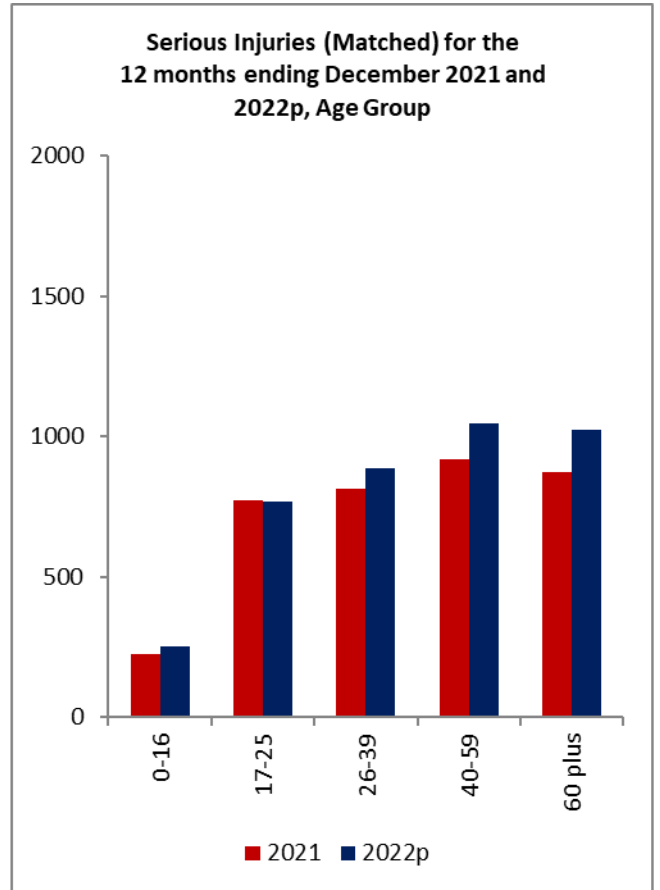
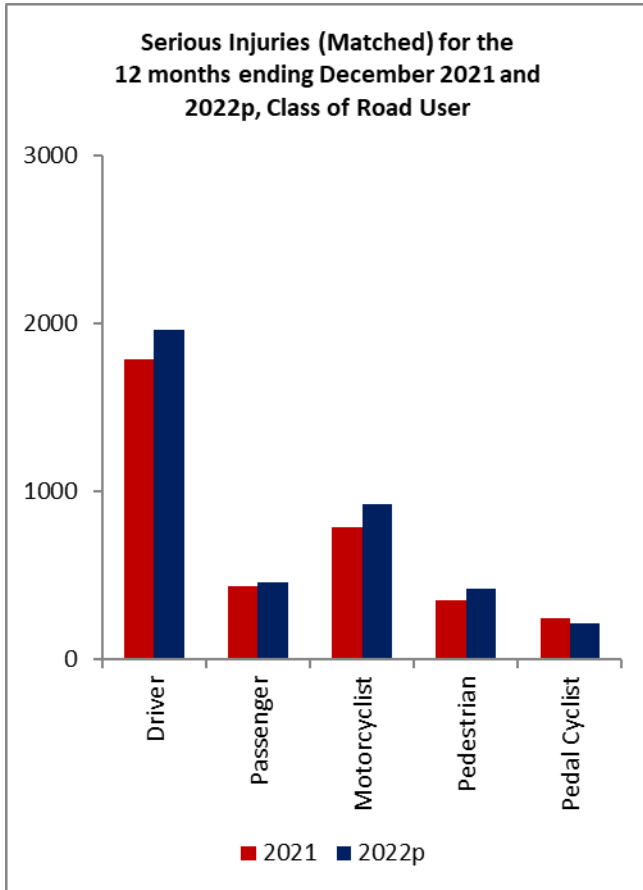


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Serious Injuries (Matched)

	12 months ending Dec 2022p	12 months ending Dec 2021	# Change	% Change
Road User Group				
Driver	1960	1790	170	9%
Passenger	460	437	23	5%
Motorcyclist	926	786	140	18%
Pedestrian	416	348	68	20%
Pedal Cyclist	215	244	-29	-12%
Other Road User	4	2	2	100%
Total	3981	3607	374	10%
Age Group				
0-4	19	26	-7	-27%
5-16	232	198	34	17%
17-20	381	370	11	3%
21-25	386	400	-14	-4%
26-29	285	261	24	9%
30-39	600	550	50	9%
40-49	529	468	61	13%
50-59	518	450	68	15%
60-69	471	403	68	17%
70-79	328	288	40	14%
80+	224	182	42	23%
Unknown	8	11	-3	-27%
Total	3981	3607	374	10%
Gender				
Male	2626	2345	281	12%
Female	1354	1261	93	7%
Unknown	1	1	0	0%
Total	3981	3607	374	10%
Urbanisation				
Metropolitan	2236	1965	271	14%
Country	1745	1642	103	6%
Total	3981	3607	374	10%

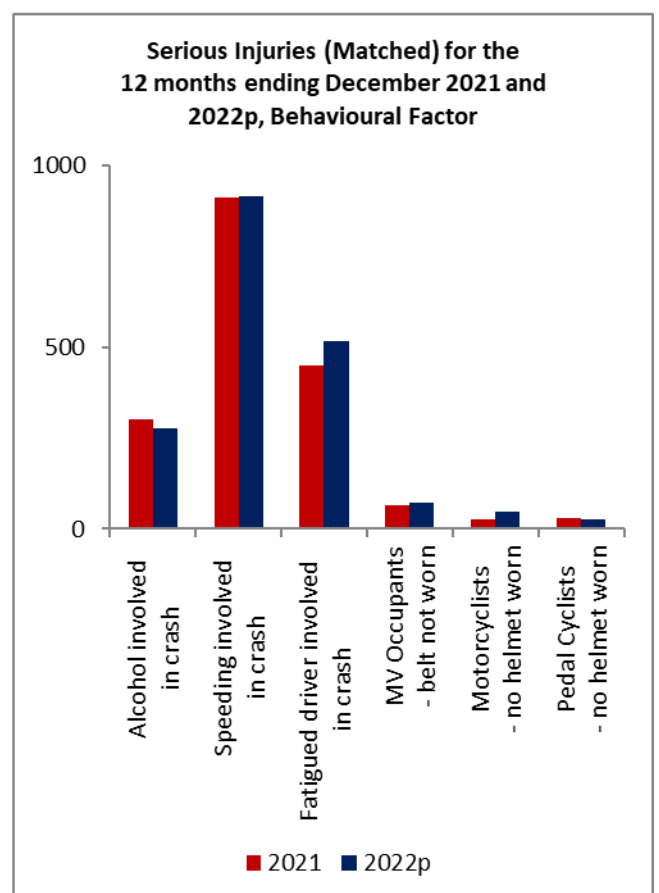
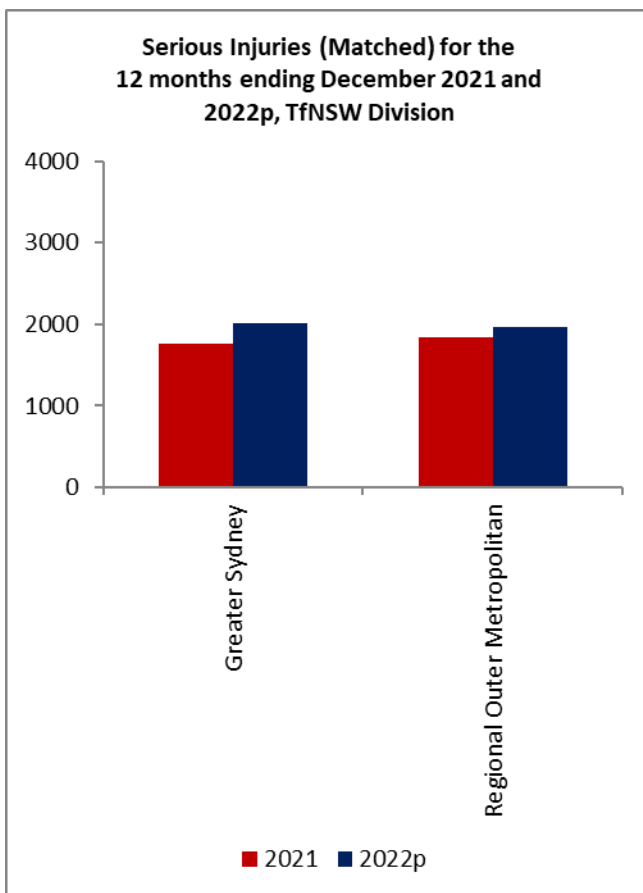
p Preliminary data subject to change.



Serious Injuries (Matched) cont....

	12 months ending Dec 2022p	12 months ending Dec 2021	# Change	% Change
TfNSW Division				
Greater Sydney	2010	1761	249	14%
Regional Outer Metropolitan	1971	1846	125	7%
North	1180	1095	85	8%
South	481	460	21	5%
West	310	291	19	7%
Total	3981	3607	374	10%
Behaviour Factors				
Alcohol involved in crash 'Yes'	278	301	-23	-8%
Speeding involved in crash 'Yes'	915	910	5	1%
Fatigue involved in crash 'Yes'	518	449	69	15%
Safety Device Usage				
Driver - belt not worn	43	32	11	34%
Passenger - belt not worn	28	32	-4	-13%
Motor Vehicle Occupants - belt not worn	71	64	7	11%
Motorcyclists- no helmet worn	47	28	19	68%
Pedal Cyclists - no helmet worn	26	29	-3	-10%

p Preliminary data subject to change.



4.2 Serious injury crashes

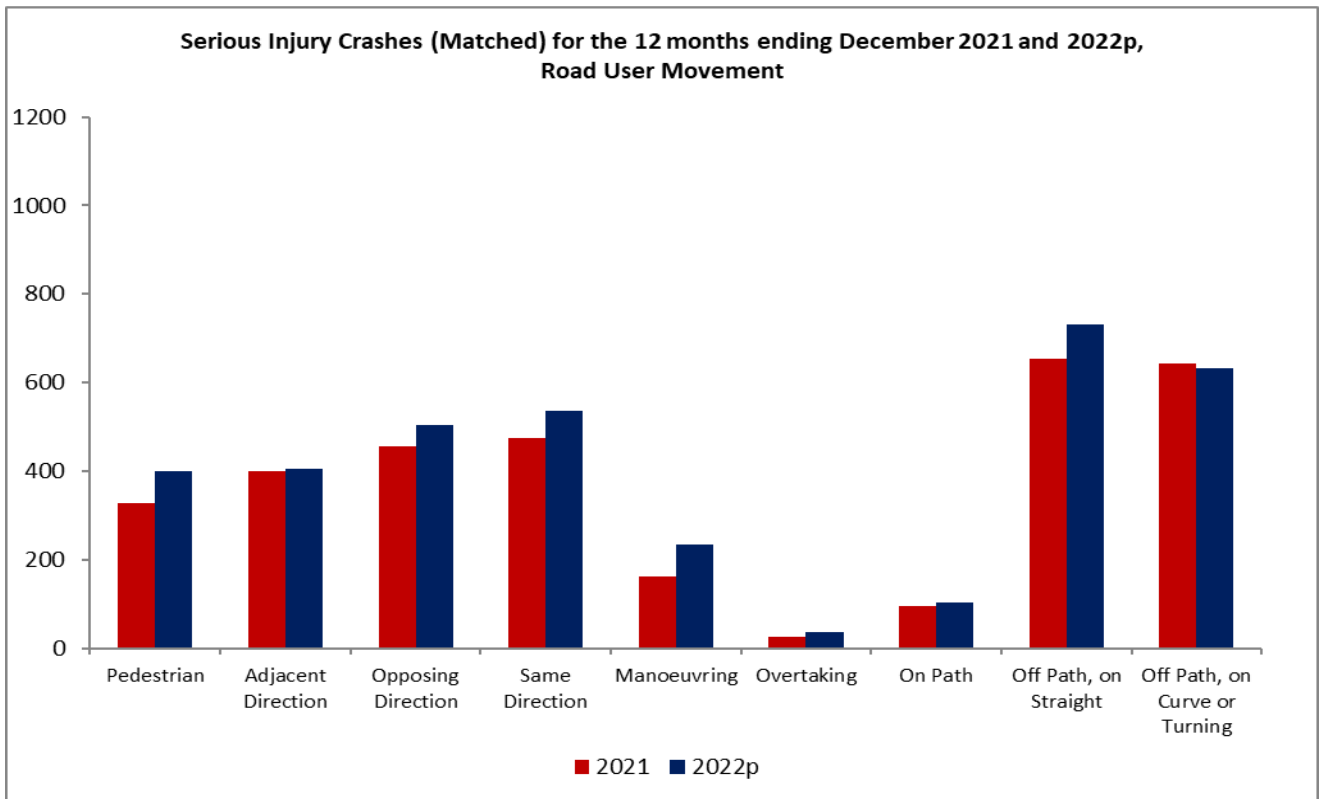
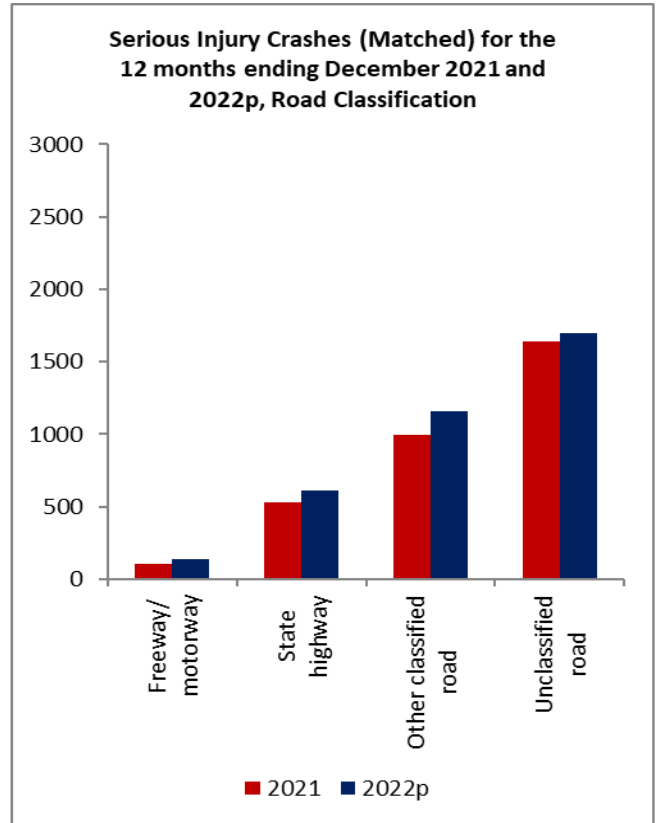
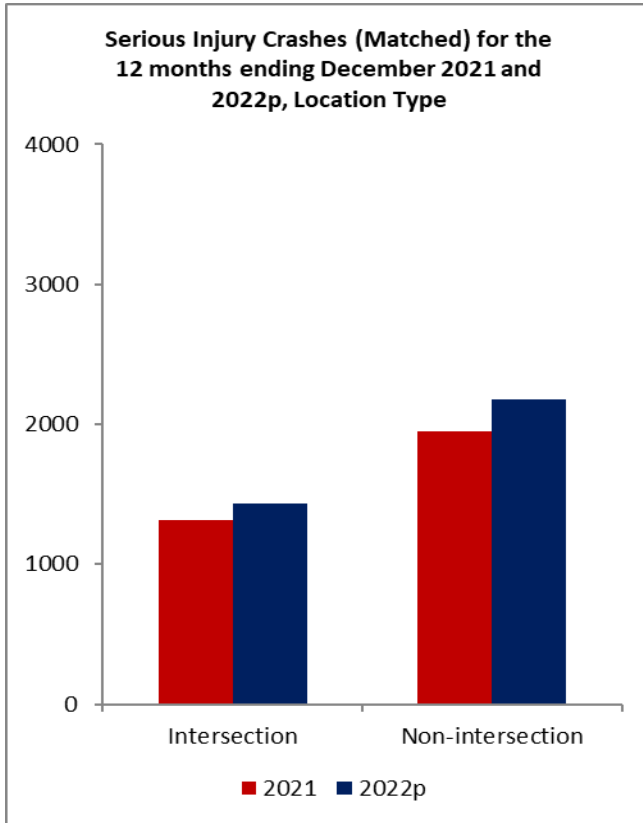
Serious Injury Crashes (Matched)

	12 months ending Dec 2022p	12 months ending Dec 2021	# Change	% Change
Location type				
Intersection	1435	1318	117	9%
Non-intersection	2179	1946	233	12%
Total[^]	3614	3265	349	11%
Road classification				
Freeway/motorway	140	102	38	37%
State highway	614	531	83	16%
Other classified road	1161	994	167	17%
Unclassified road	1699	1638	61	4%
Total	3614	3265	349	11%
Type of crash (RUM)				
Pedestrian	399	328	71	22%
Cross Traffic	223	232	-9	-4%
Other Turning Adjacent	183	168	15	9%
Head On (Not O'Taking)	230	191	39	20%
Other Turning Opposite	274	266	8	3%
Rear End (incl Left and Right Rear)	374	337	37	11%
Lane Side Swipe (incl lane change left / right)	138	107	31	29%
Other Turn Side Swipe	25	31	-6	-19%
Manoeuvring	235	163	72	44%
Overtaking	36	25	11	44%
On Path	102	94	8	9%
Off Path, on Straight	732	655	77	12%
Off Path, on Curve or Turning	632	643	-11	-2%
Miscellaneous / Unknown	31	25	6	24%
Total	3614	3265	349	11%

[^]Total includes unknowns

^p Preliminary data subject to change.

The above information is available only for matched serious injury crashes as it is derived from police reports. Information regarding unmatched serious injuries is from hospital/health records which does not enable analysis using the above fields



5 Annual Statistics

5.1 Serious injuries

		Quarter				Total
		Q1	Q2	Q3	Q4	
Serious Injuries Matched	Year					
	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	1119	904	1107	1230	4360	
2021	1013	958	610	1026	3607	
2022p	894	1001	1021	1065	3981	
Serious Injuries Not Matched	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	1599	1545	2055	1416	6615	
2021	2003	1951	1250	1416	6620	
2022p	1649	1475	1161	1301	5586	
All Hospitalisations	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	2718	2449	3162	2646	10975	
2021	3016	2909	1860	2442	10227	
2022p	2543	2476	2182	2366	9567	

p Preliminary data subject to change.

Serious Injury Report – Quarter Ending December 2022