



Transport  
for NSW

# Quarterly Bulletin of Serious Injury Crash Data

Quarter ending December 2017 (preliminary)

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**Version:** 1  
**Division:** Freight Strategy and Planning  
**Branch:** Centre for Road Safety  
**Review date:** June 2018

# 1 Acknowledgements

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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:**

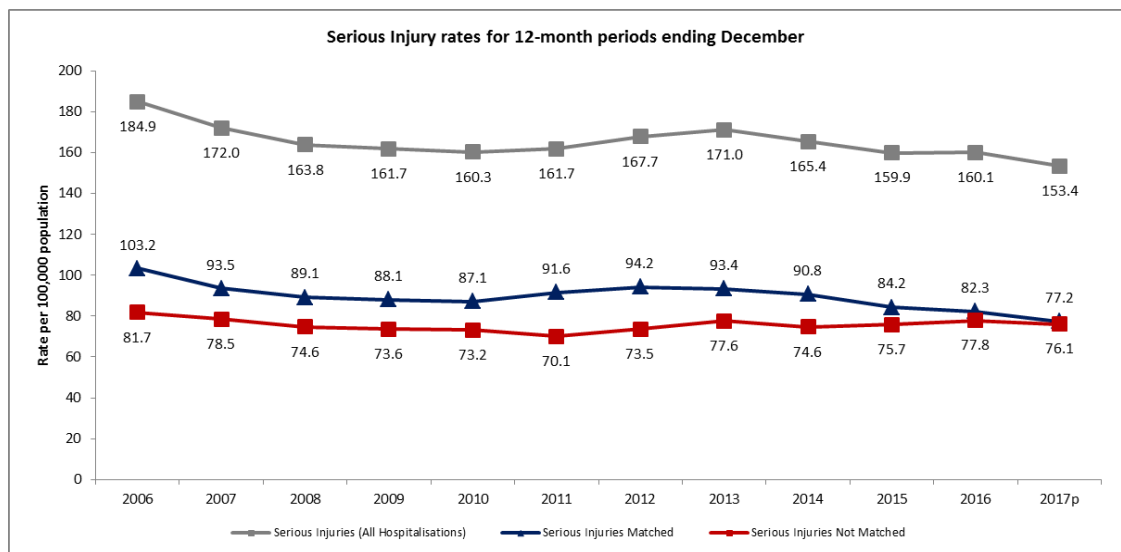
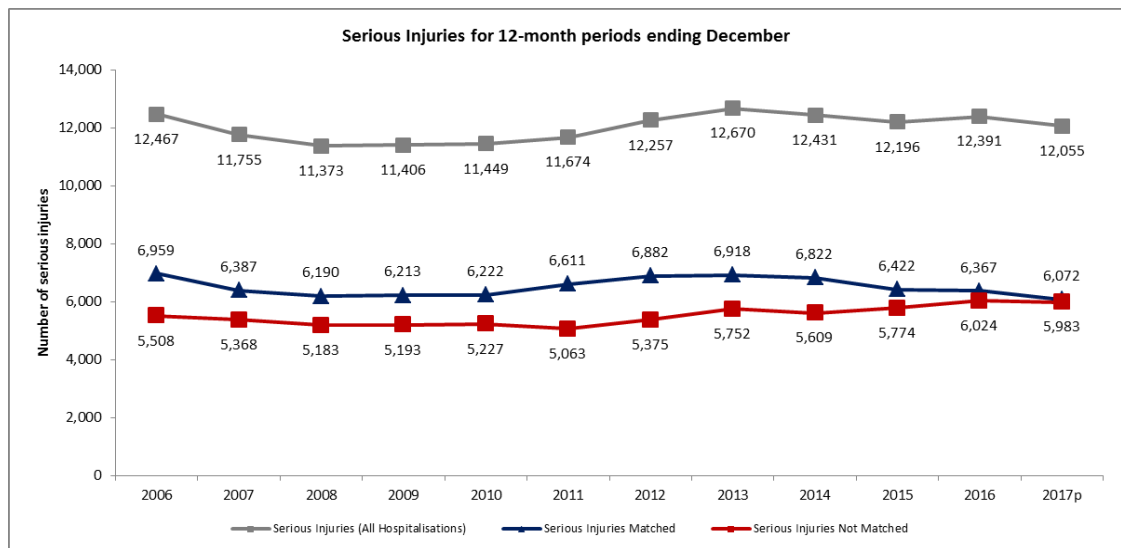
Serious injuries are likely to be slightly understated for the 12 months ending December 2017 due to the non-supply of the new CTP scheme data which was implemented on 1<sup>st</sup> December 2017 from SIRA, and incomplete Lifetime Care data from icare for the period 2016Q3-2017Q4.

## 2 Serious Injury Trends

There were a total of 2,831 serious injuries (all hospitalisations) for the December 2017 quarter, 154 (5 per cent) fewer than the September 2017 quarter. Over the 12 month period ending December 2017 there were 12,055 serious injuries (all hospitalisations), 336 fewer than the 12 month period ending December 2016. The serious injury rate for the 12 months ending December 2017 was 153.4 per 100,000 population.

### Serious injury numbers and rates for 12-mth period ending December 2017p

	Number	Rate per 100,000 population <sup>1</sup>
Serious injuries (all hospitalisations)	12,055	153.4
Serious injuries (matched) <sup>2</sup>	6,072	77.2
Serious injuries (not matched) <sup>3</sup>	5,983	76.1



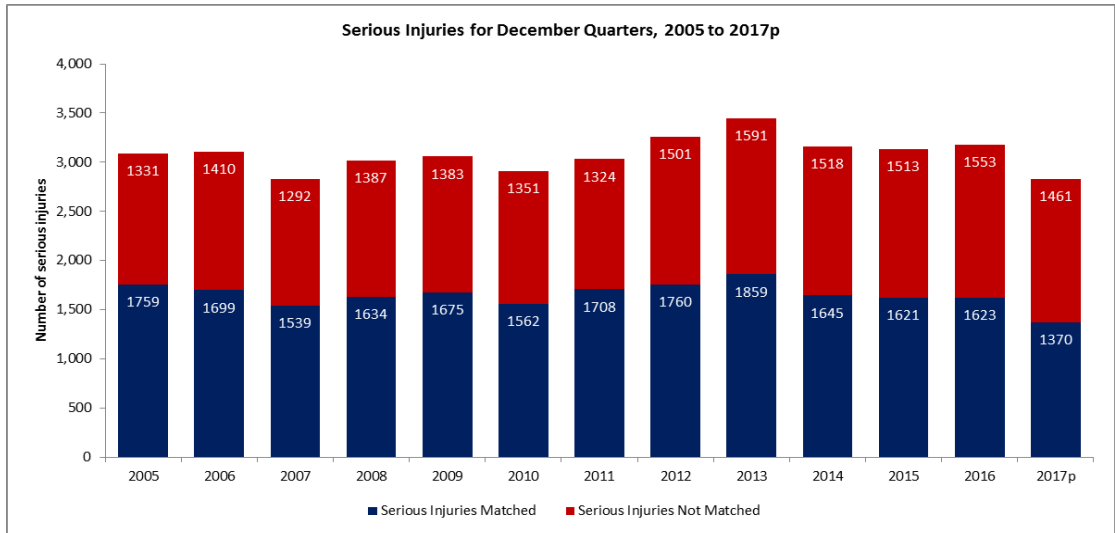
<sup>1</sup> Based on preliminary estimated population data

<sup>2</sup> Serious injuries matched to a police crash report

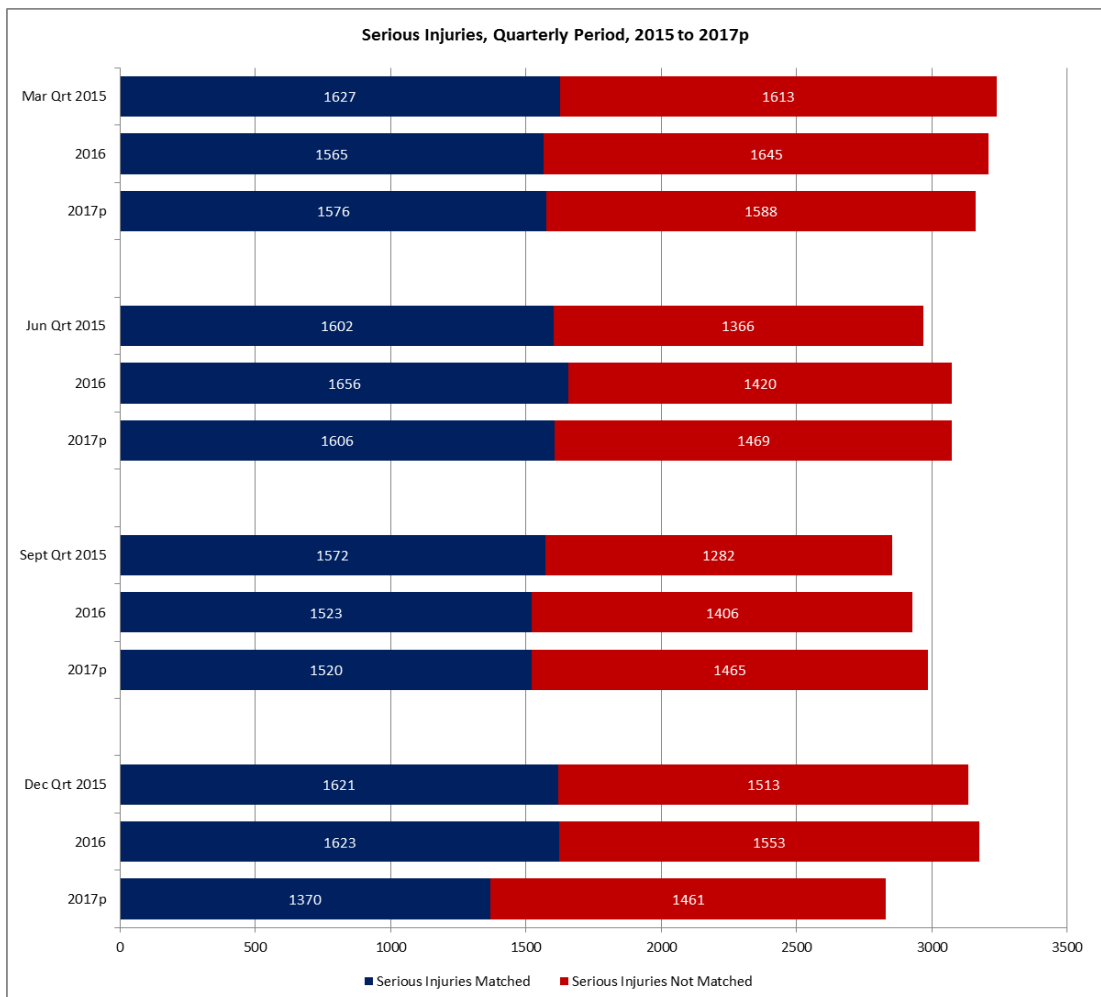
<sup>3</sup> Serious injuries not matched to a police crash report

### 3 Quarterly Comparison

#### 3.1 NSW serious injuries for December Quarter: 2005 to 2017p



#### 3.2 NSW serious injuries: quarterly comparison, 2015 to 2017p



## 4 Rolling 12 Month Statistics

### 4.1 Serious injuries

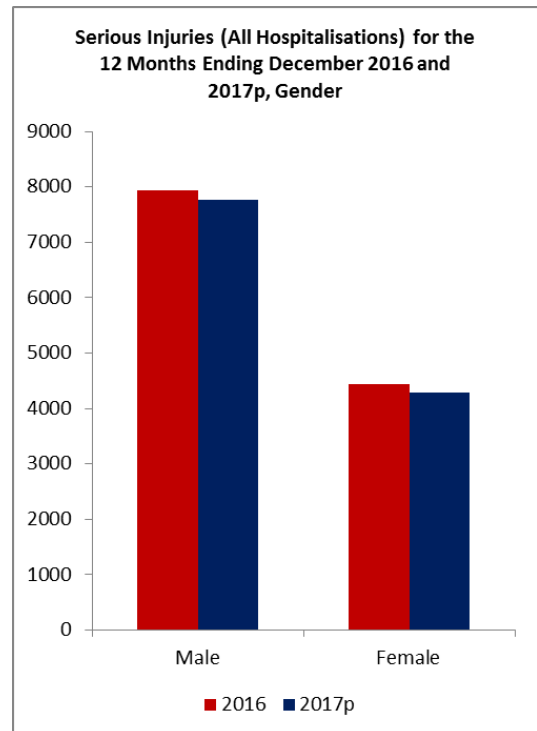
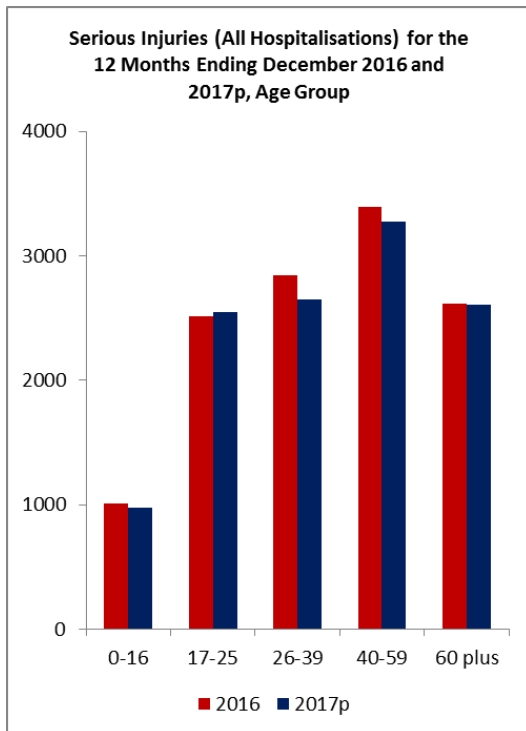
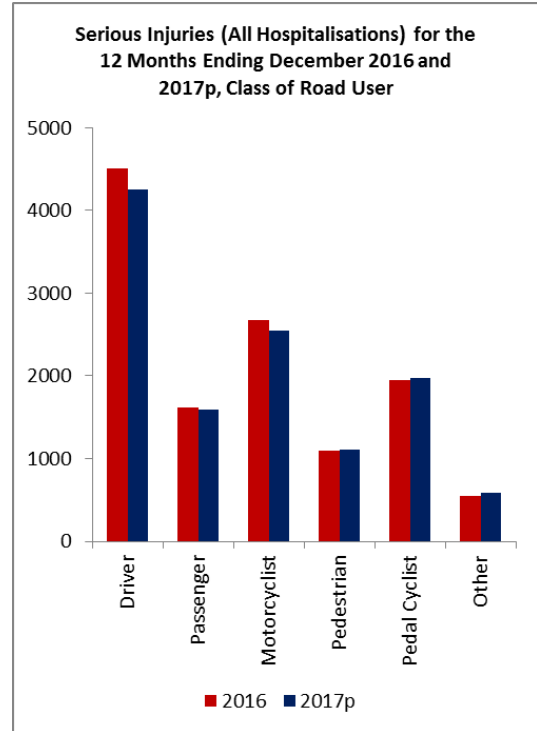
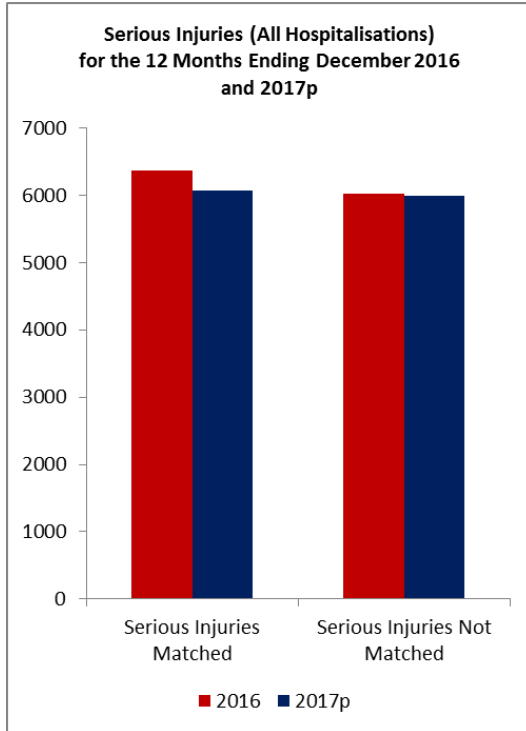
#### Overall

	12 months ending Dec 2017p	12 months ending Dec 2016	# Change	% Change
Serious Injuries Matched	6072	6367	-295	-5%
Serious Injuries Not Matched	5983	6024	-41	-1%
<b>All Hospitalisations</b>	<b>12055</b>	<b>12391</b>	<b>-336</b>	<b>-3%</b>

#### Serious Injuries (All Hospitalisations)

	12 months ending Dec 2017p	12 months ending Dec 2016	# Change	% Change
<b>Road User Group</b>				
Driver	4256	4501	-245	-5%
Passenger	1590	1623	-33	-2%
Motorcyclist	2551	2669	-118	-4%
Pedestrian	1110	1100	10	1%
Pedal Cyclist	1967	1948	19	1%
Other	581	550	31	6%
<b>Total</b>	<b>12055</b>	<b>12391</b>	<b>-336</b>	<b>-3%</b>
<b>Age Group</b>				
0-4	113	96	17	18%
5-16	859	913	-54	-6%
17-20	1161	1131	30	3%
21-25	1386	1385	1	0%
26-29	880	915	-35	-4%
30-39	1768	1932	-164	-8%
40-49	1685	1738	-53	-3%
50-59	1588	1659	-71	-4%
60-69	1147	1179	-32	-3%
70-79	808	806	2	0%
80+	651	630	21	3%
Unknown	9	7	2	29%
<b>Total</b>	<b>12055</b>	<b>12391</b>	<b>-336</b>	<b>-3%</b>
<b>Gender</b>				
Male	7760	7946	-186	-2%
Female	4295	4444	-149	-3%
Unknown	0	1	-1	-100%
<b>Total</b>	<b>12055</b>	<b>12391</b>	<b>-336</b>	<b>-3%</b>

p Preliminary data subject to change.

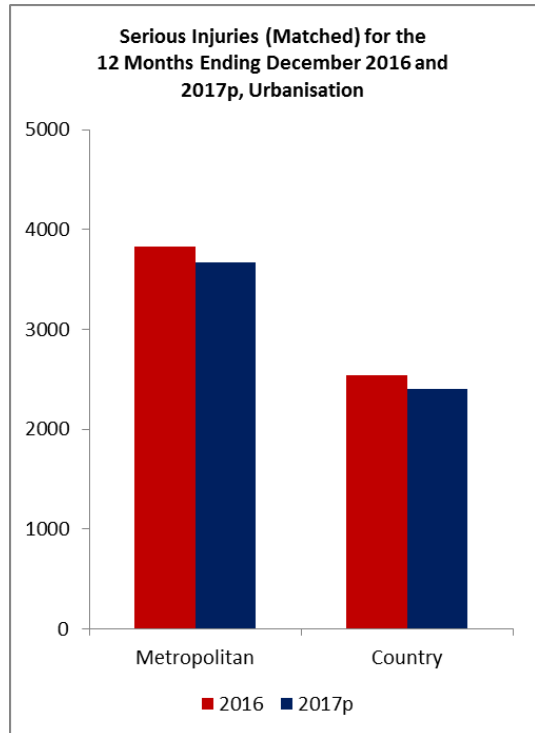
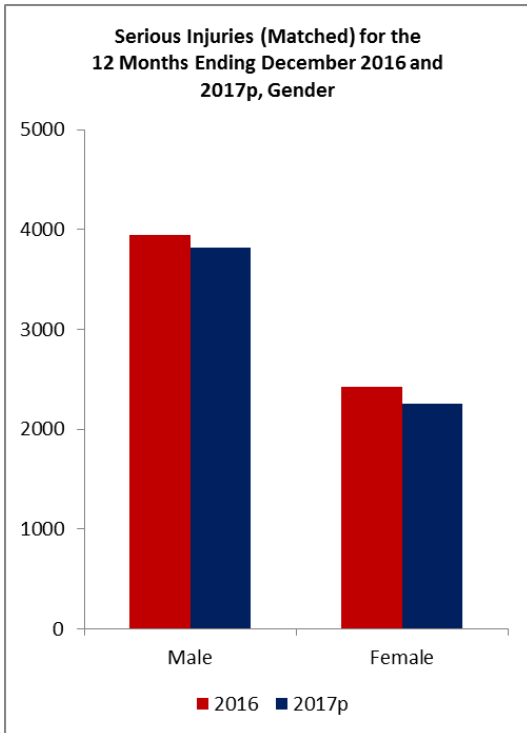
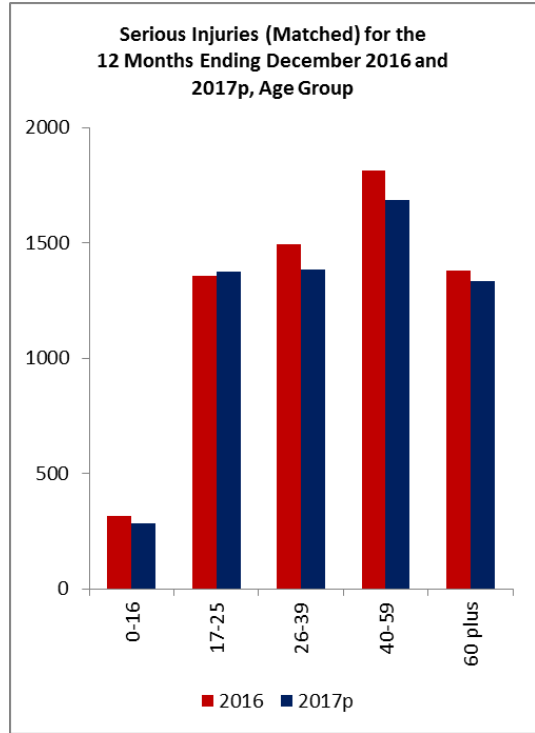
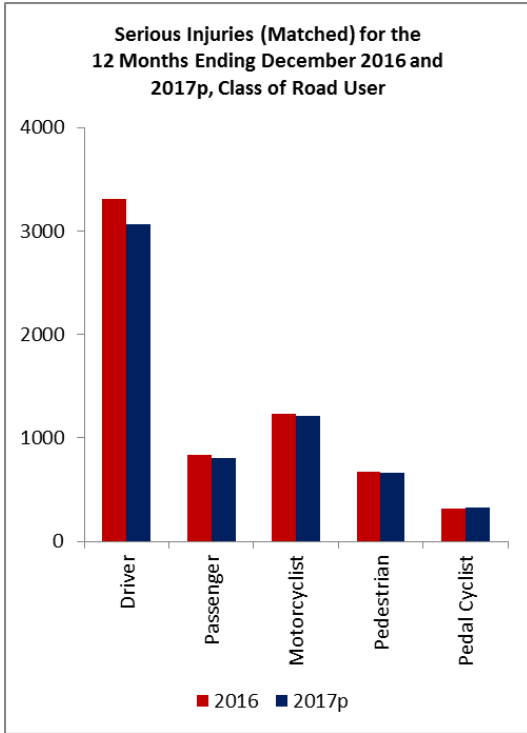


### Serious Injuries (Matched)

	12 months ending Dec 2017p	12 months ending Dec 2016	# Change	% Change
<b>Road User Group</b>				
Driver	3069	3309	-240	-7%
Passenger	805	832	-27	-3%
Motorcyclist	1210	1237	-27	-2%
Pedestrian	664	677	-13	-2%
Pedal Cyclist	324	312	12	4%
Other Road User	0	0	0	n/a
<b>Total</b>	<b>6072</b>	<b>6367</b>	<b>-295</b>	<b>-5%</b>
<b>Age Group</b>				
0-4	43	47	-4	-9%
5-16	240	270	-30	-11%
17-20	644	629	15	2%
21-25	731	730	1	0%
26-29	452	480	-28	-6%
30-39	931	1012	-81	-8%
40-49	843	919	-76	-8%
50-59	843	894	-51	-6%
60-69	612	638	-26	-4%
70-79	409	443	-34	-8%
80+	315	298	17	6%
Unknown	9	7	2	29%
<b>Total</b>	<b>6072</b>	<b>6367</b>	<b>-295</b>	<b>-5%</b>
<b>Gender</b>				
Male	3817	3942	-125	-3%
Female	2255	2424	-169	-7%
Unknown	0	1	-1	-100%
<b>Total</b>	<b>6072</b>	<b>6367</b>	<b>-295</b>	<b>-5%</b>
<b>Urbanisation</b>				
Metropolitan	3667	3827	-160	-4%
Country	2405	2540	-135	-5%
<b>Total</b>	<b>6072</b>	<b>6367</b>	<b>-295</b>	<b>-5%</b>

p Preliminary data subject to change.





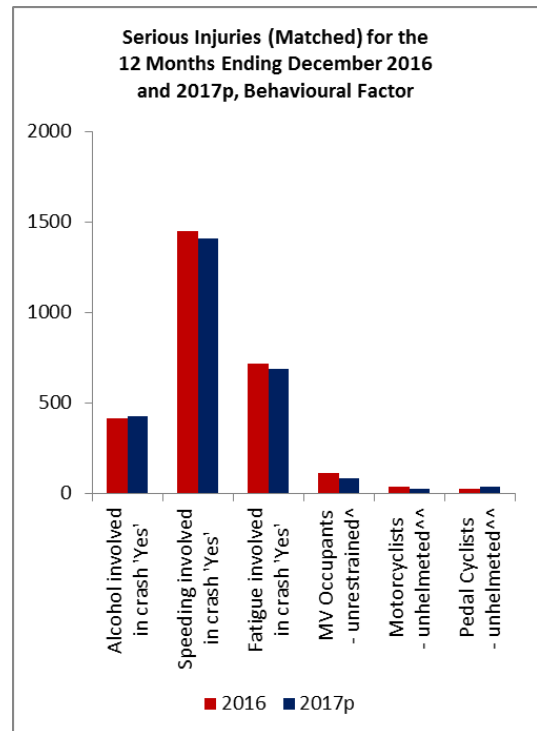
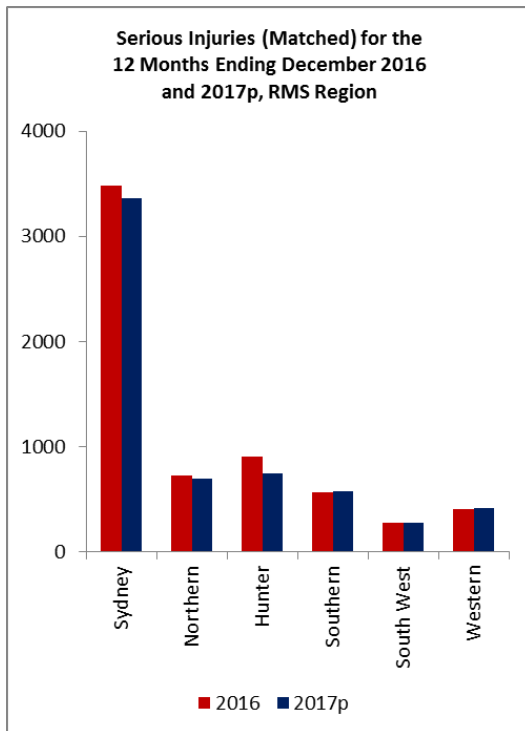
**Serious Injuries (Matched) cont....**

	12 months ending Dec 2017p	12 months ending Dec 2016	# Change	% Change
<b>RMS Region (CRS)</b>				
Sydney	3364	3482	-118	-3%
Northern	693	729	-36	-5%
Hunter	746	906	-160	-18%
Southern	578	570	8	1%
South West	272	274	-2	-1%
Western	419	406	13	3%
<b>Total</b>	<b>6072</b>	<b>6367</b>	<b>-295</b>	<b>-5%</b>
<b>Behaviour Factors</b>				
Alcohol involved in crash 'Yes'	426	419	7	2%
Speeding involved in crash 'Yes'	1410	1450	-40	-3%
Fatigue involved in crash 'Yes'	691	721	-30	-4%
<b>Safety Device Usage</b>				
Driver - unrestrained^	55	87	-32	-37%
Passenger - unrestrained^	30	30	0	0%
Motor Vehicle Occupants - unrestrained^	85	117	-32	-27%
Motorcyclists- unhelmeted^^	28	38	-10	-26%
Pedal Cyclists - unhelmeted^^	37	29	8	28%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

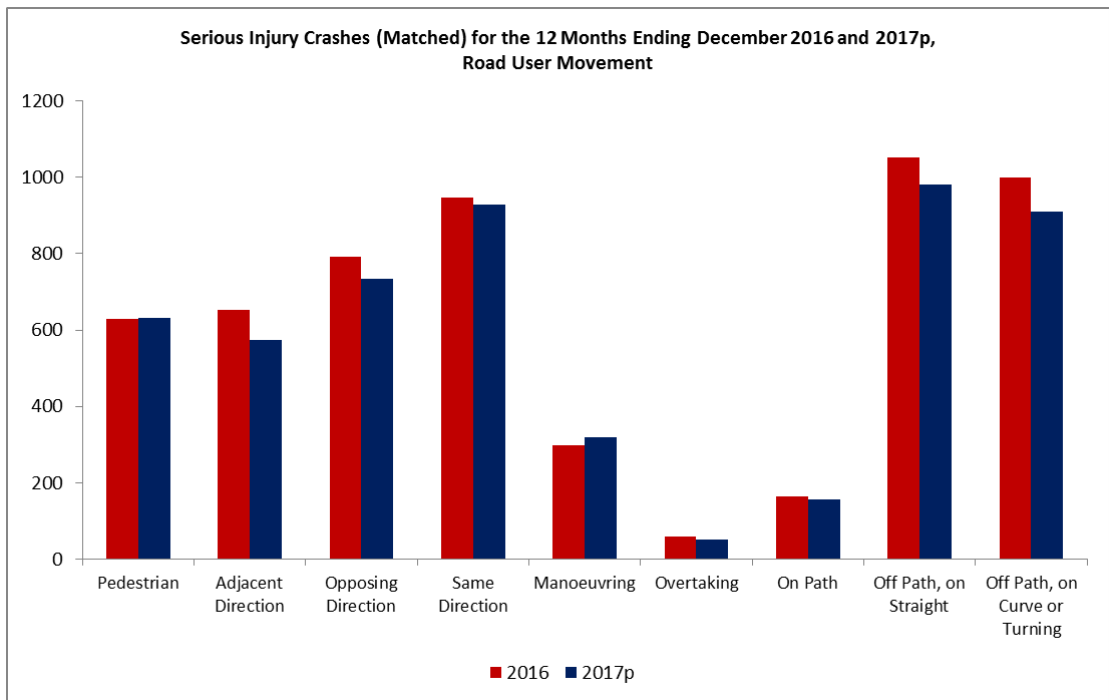
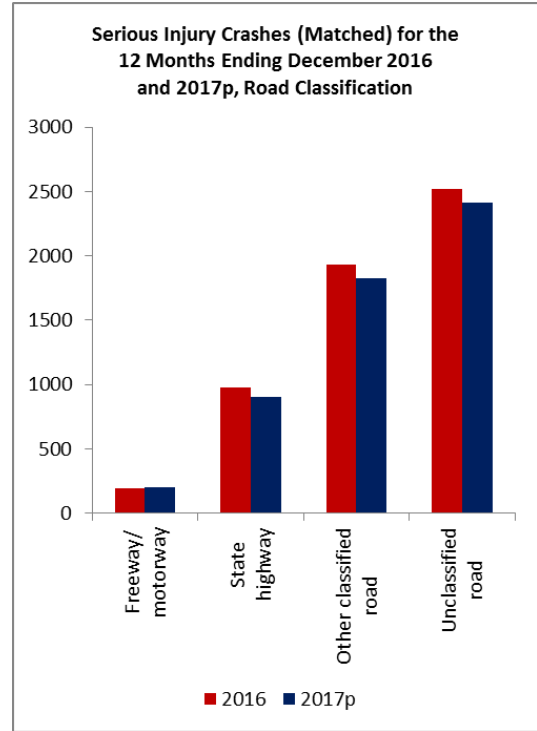
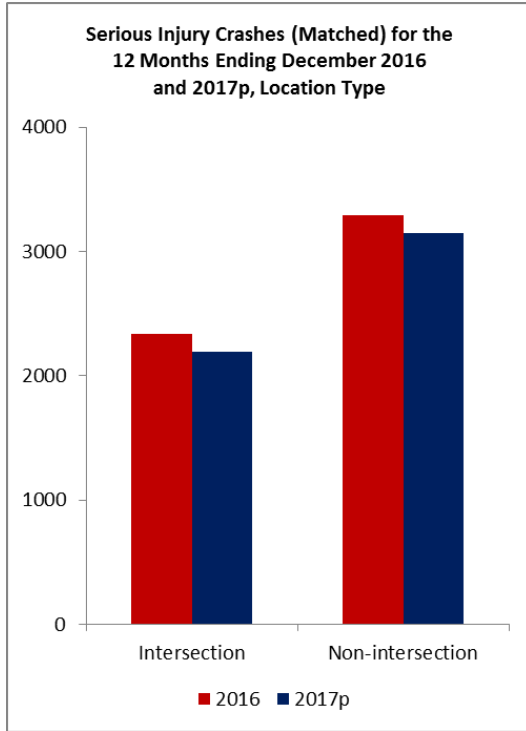


## 4.2 Serious injury crashes

### Serious Injury Crashes (Matched)

	12 months ending Dec 2017 <sup>p</sup>	12 months ending Dec 2016	# Change	% Change
<b>Location type</b>				
Intersection	2191	2333	-142	-6%
Non-intersection	3147	3292	-145	-4%
<b>Total</b>	<b>5338</b>	<b>5625</b>	<b>-287</b>	<b>-5%</b>
<b>Road classification</b>				
Freeway/motorway	198	197	1	1%
State highway	901	978	-77	-8%
Other classified road	1826	1930	-104	-5%
Unclassified road	2413	2520	-107	-4%
<b>Total</b>	<b>5338</b>	<b>5625</b>	<b>-287</b>	<b>-5%</b>
<b>Type of crash (RUM)</b>				
Pedestrian	633	630	3	0%
Cross Traffic	314	336	-22	-7%
Other Turning Adjacent	261	316	-55	-17%
Head On (Not O'Taking)	300	288	12	4%
Other Turning Opposite	434	504	-70	-14%
Rear End (incl Left and Right Rear)	655	671	-16	-2%
Lane Side Swipe (incl lane change left / right)	194	185	9	5%
Other Turn Side Swipe	81	90	-9	-10%
Manoeuvring	319	298	21	7%
Overtaking	51	58	-7	-12%
On Path	157	163	-6	-4%
Off Path, on Straight	981	1051	-70	-7%
Off Path, on Curve or Turning	911	1000	-89	-9%
Miscellaneous / Unknown	47	35	12	34%
<b>Total</b>	<b>5338</b>	<b>5625</b>	<b>-287</b>	<b>-5%</b>

<sup>p</sup> Preliminary data subject to change.



## 5 Annual Statistics

### 5.1 Serious injuries<sup>4</sup>

		Quarter				Total
		Q1	Q2	Q3	Q4	
Serious Injuries Matched	<b>Year</b>					
	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
	2017p	1576	1606	1520	1370	6072
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
	2017p	1588	1469	1465	1461	5983
	All Hospitalisations	2005	2899	2947	2831	3090
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
2017p		3164	3075	2985	2831	12055

p Preliminary data subject to change.

<sup>4</sup> 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 185.