



Transport  
for NSW

# Quarterly Bulletin of Serious Injury Crash Data

Quarter ending September 2017 (preliminary)

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**Version:** 1  
**Division:** Freight Strategy and Planning  
**Branch:** Centre for Road Safety  
**Review date:** April 2017

# 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.

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 Notice:**

Finalised 2005 to 2016 data previously reported in this bulletin has been amended subsequent to a re-linkage of crash data with data from NSW Health. The effect on the number of hospitalisations for this 12 year period has been minimal with matched serious injuries increasing by 0.2 per cent and unmatched serious injuries decreasing by 0.03 per cent.

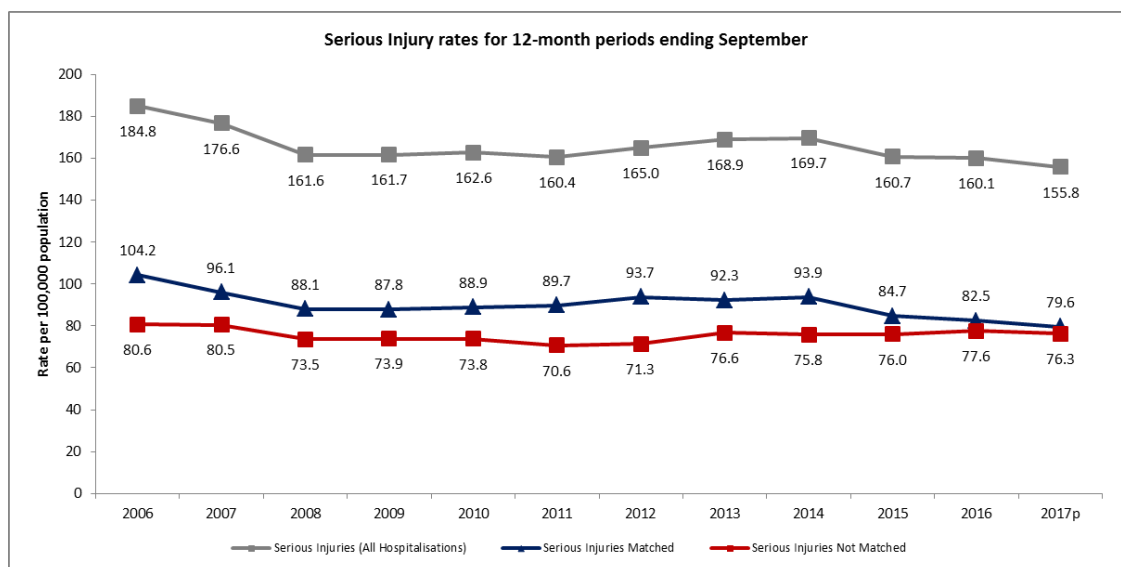
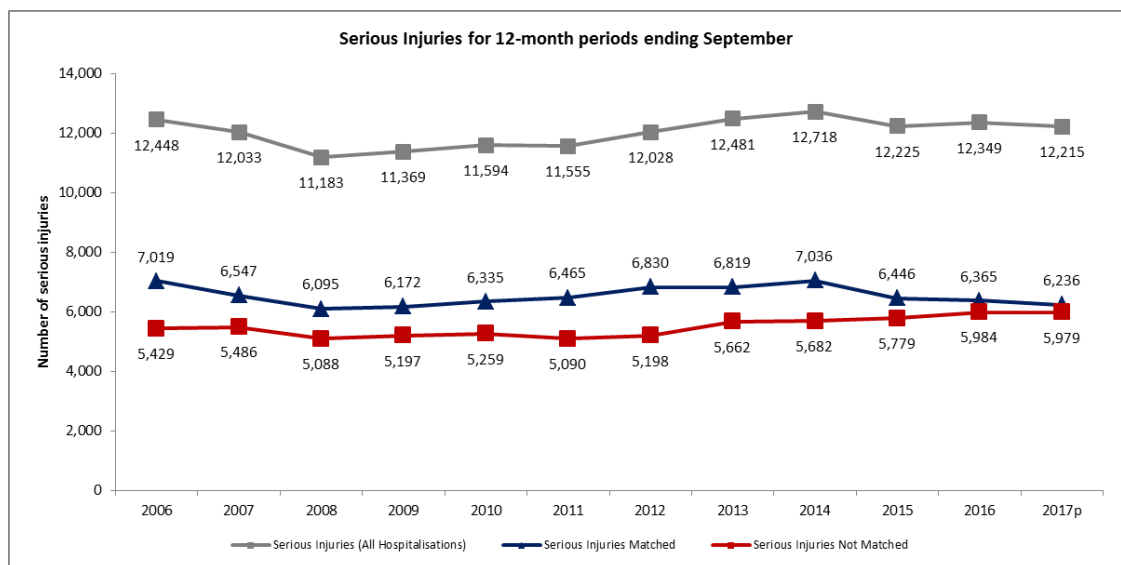
For CrashLink users, 2005 to 2016 data has not been updated to reflect these minor changes. Outputs from Crashlink will differ to figures presented in this report which has been generated from a separate database.

## 2 Serious Injury Trends

There were a total of 2,800 serious injuries (all hospitalisations) for the September 2017 quarter, 274 (9 per cent) fewer than the June 2017 quarter. Over the 12 month period ending Sept 2017 there were 12,215 serious injuries (all hospitalisations), 134 fewer than the 12 month period ending September 2016. The serious injury rate for the 12 months ending September 2017 was 155.8 per 100,000 population.

### Serious injury numbers and rates for 12-month period ending Sept 2017p

	Number	Rate per 100,000 population <sup>1</sup>
Serious injuries (all hospitalisations)	12,215	155.8
Serious injuries (matched) <sup>2</sup>	6,236	79.6
Serious injuries (not matched) <sup>3</sup>	5,979	76.3



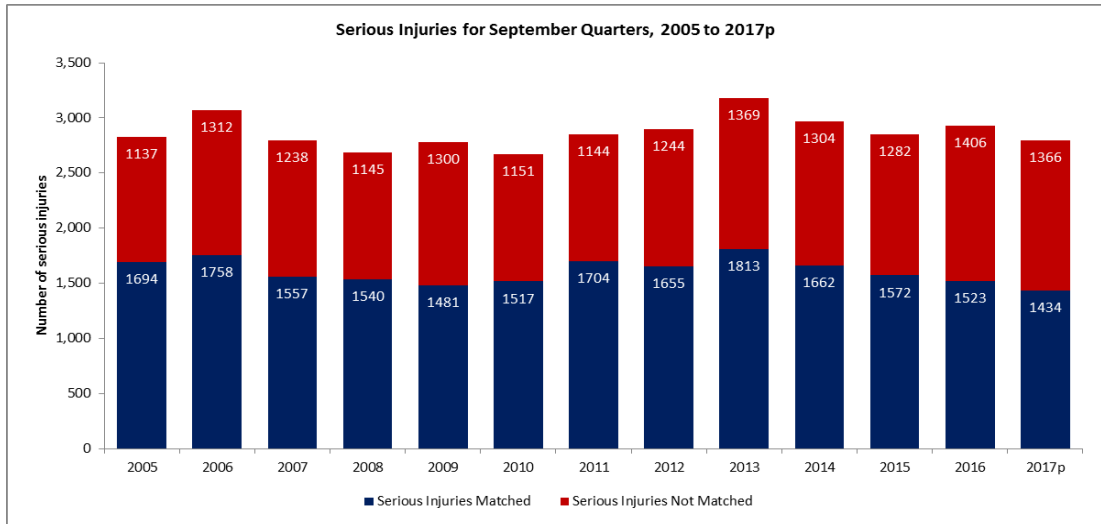
<sup>1</sup> Based on preliminary estimated population data

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

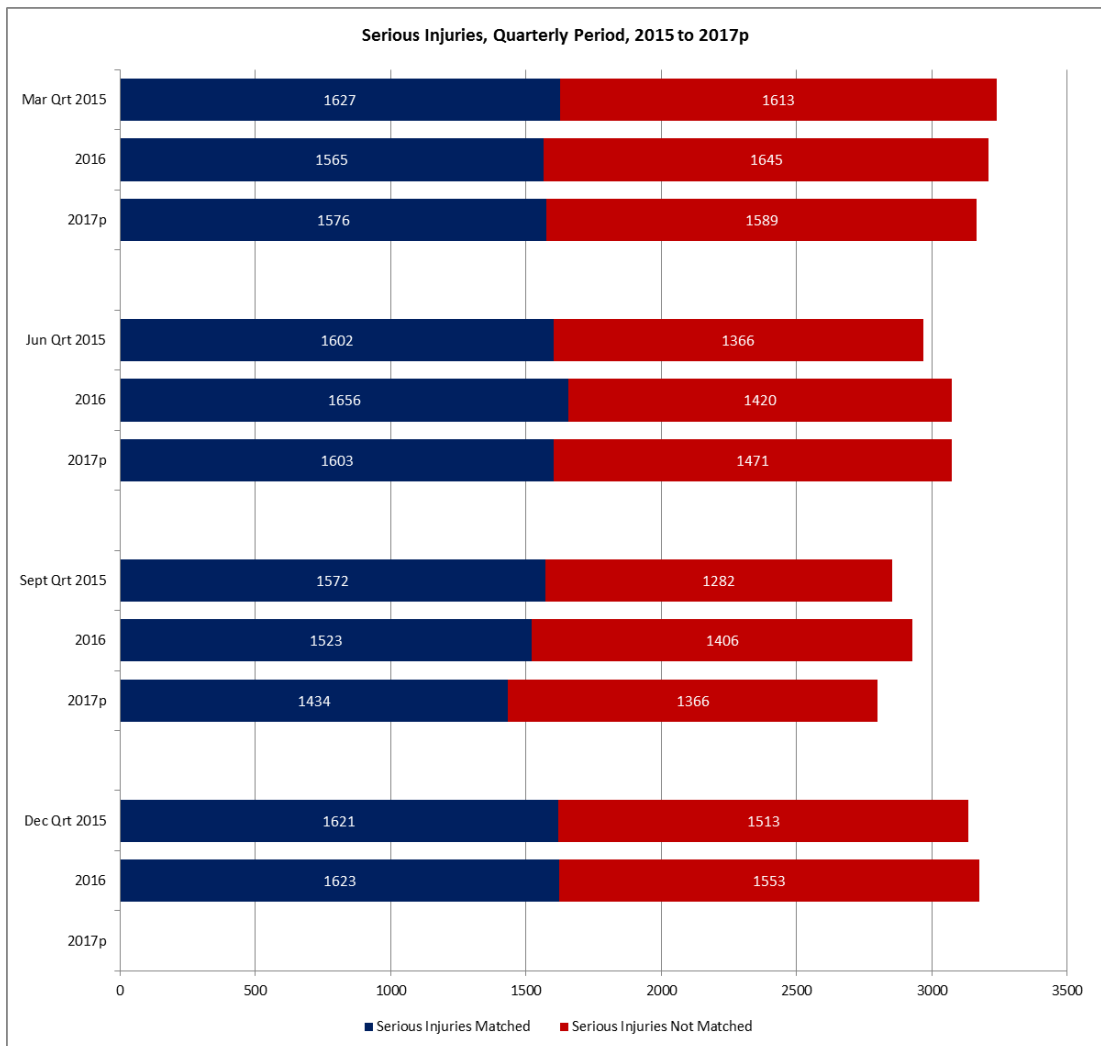
<sup>3</sup> Serious injuries not matched to a police crash report

### 3 Quarterly Comparison

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



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



## 4 Rolling 12 Month Statistics

### 4.1 Serious injuries

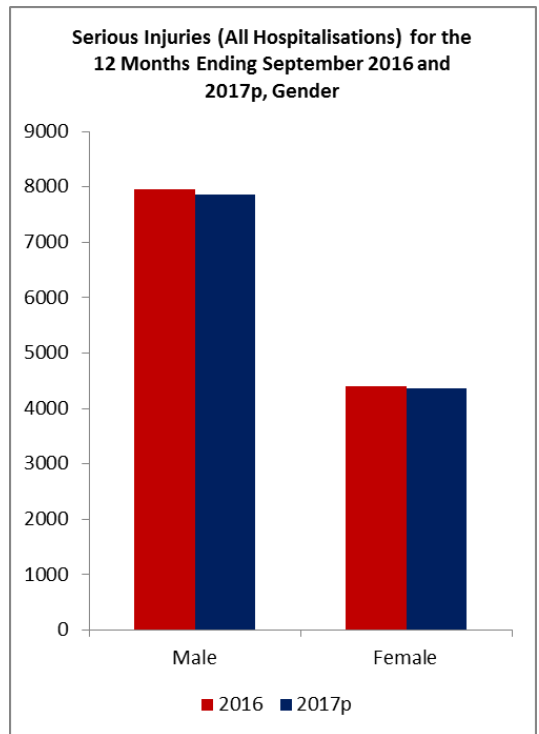
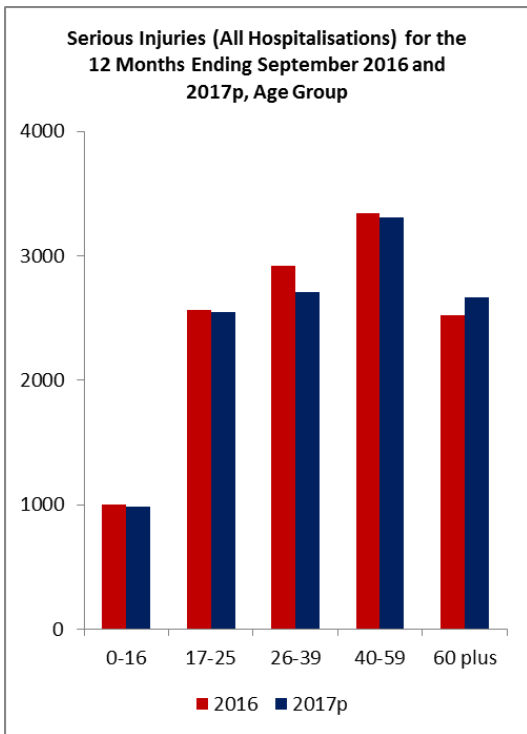
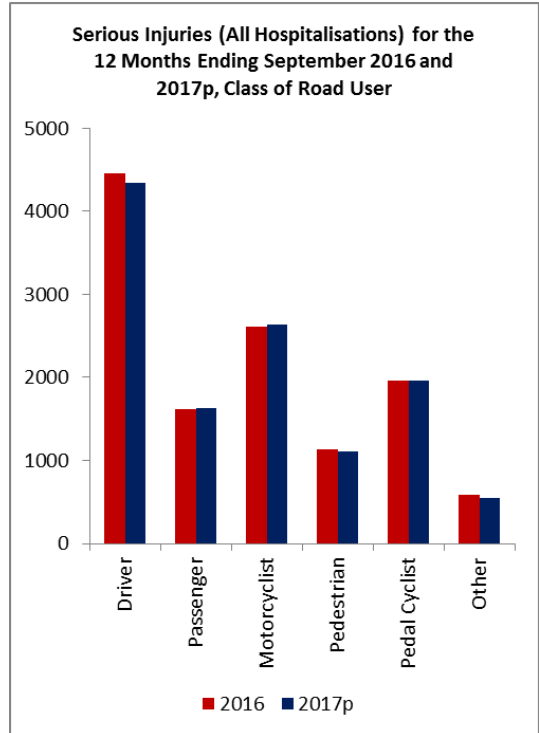
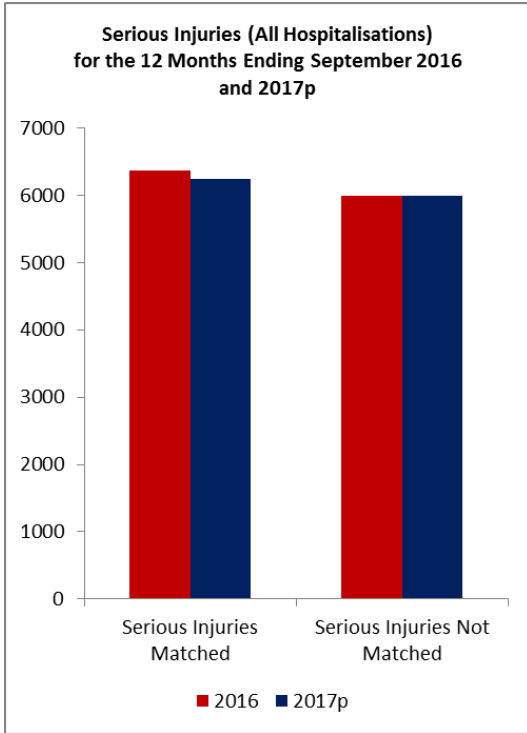
#### Overall

	12 months ending Sept 2017p	12 months ending Sept 2016	# Change	% Change
Serious Injuries Matched	6236	6365	-129	-2%
Serious Injuries Not Matched	5979	5984	-5	0%
<b>All Hospitalisations</b>	<b>12215</b>	<b>12349</b>	<b>-134</b>	<b>-1%</b>

#### Serious Injuries (All Hospitalisations)

	12 months ending Sept 2017p	12 months ending Sept 2016	# Change	% Change
<b>Road User Group</b>				
Driver	4339	4461	-122	-3%
Passenger	1625	1612	13	1%
Motorcyclist	2633	2605	28	1%
Pedestrian	1105	1131	-26	-2%
Pedal Cyclist	1963	1958	5	0%
Other	550	582	-32	-5%
<b>Total</b>	<b>12215</b>	<b>12349</b>	<b>-134</b>	<b>-1%</b>
<b>Age Group</b>				
0-4	116	104	12	12%
5-16	866	897	-31	-3%
17-20	1143	1164	-21	-2%
21-25	1403	1400	3	0%
26-29	879	950	-71	-7%
30-39	1829	1968	-139	-7%
40-49	1701	1698	3	0%
50-59	1606	1642	-36	-2%
60-69	1209	1115	94	8%
70-79	809	779	30	4%
80+	645	625	20	3%
Unknown	9	7	2	29%
<b>Total</b>	<b>12215</b>	<b>12349</b>	<b>-134</b>	<b>-1%</b>
<b>Gender</b>				
Male	7861	7950	-89	-1%
Female	4354	4398	-44	-1%
Unknown	0	1	-1	-100%
<b>Total</b>	<b>12215</b>	<b>12349</b>	<b>-134</b>	<b>-1%</b>

p Preliminary data subject to change.

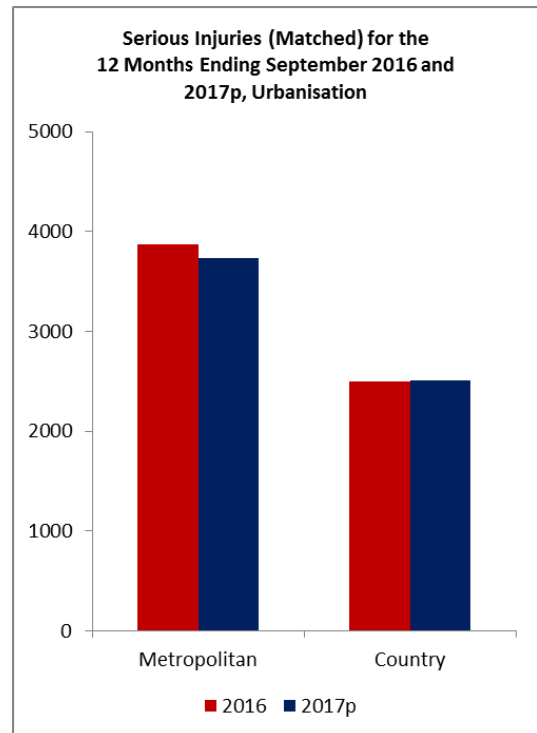
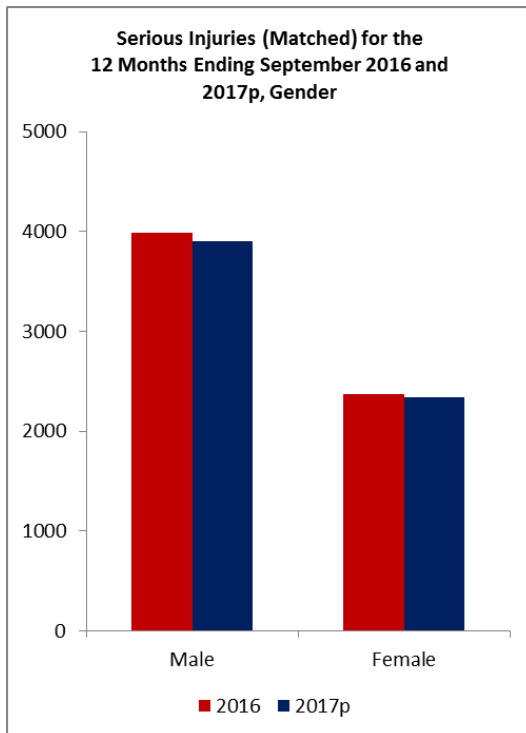
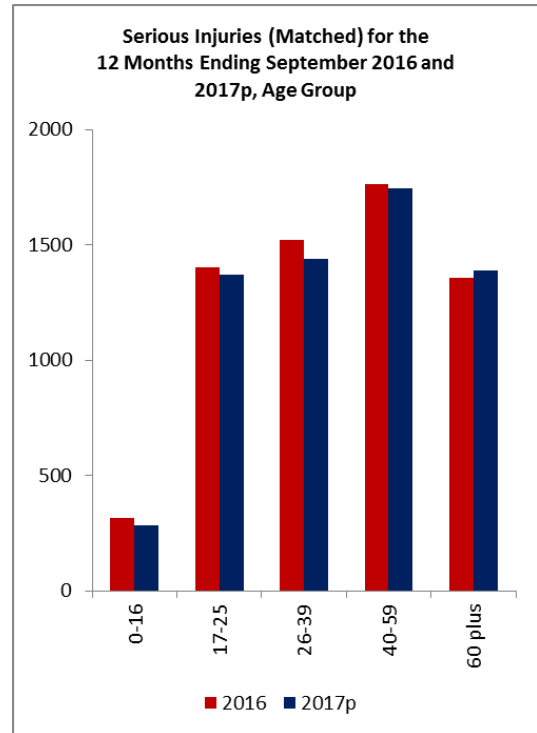
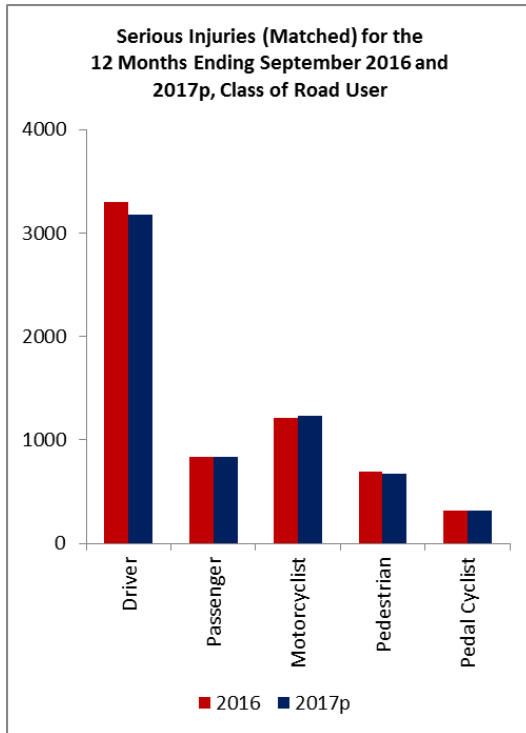


### Serious Injuries (Matched)

	12 months ending Sept 2017 <sup>p</sup>	12 months ending Sept 2016	# Change	% Change
<b>Road User Group</b>				
Driver	3180	3295	-115	-3%
Passenger	832	838	-6	-1%
Motorcyclist	1236	1214	22	2%
Pedestrian	671	697	-26	-4%
Pedal Cyclist	317	320	-3	-1%
Other Road User	0	1	-1	-100%
<b>Total</b>	<b>6236</b>	<b>6365</b>	<b>-129</b>	<b>-2%</b>
<b>Age Group</b>				
0-4	50	44	6	14%
5-16	232	271	-39	-14%
17-20	641	653	-12	-2%
21-25	731	751	-20	-3%
26-29	472	480	-8	-2%
30-39	969	1039	-70	-7%
40-49	882	887	-5	-1%
50-59	862	876	-14	-2%
60-69	646	622	24	4%
70-79	427	440	-13	-3%
80+	315	295	20	7%
Unknown	9	7	2	29%
<b>Total</b>	<b>6236</b>	<b>6365</b>	<b>-129</b>	<b>-2%</b>
<b>Gender</b>				
Male	3900	3988	-88	-2%
Female	2336	2376	-40	-2%
Unknown	0	1	-1	-100%
<b>Total</b>	<b>6236</b>	<b>6365</b>	<b>-129</b>	<b>-2%</b>
<b>Urbanisation</b>				
Metropolitan	3730	3866	-136	-4%
Country	2506	2499	7	0%
<b>Total</b>	<b>6236</b>	<b>6365</b>	<b>-129</b>	<b>-2%</b>

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





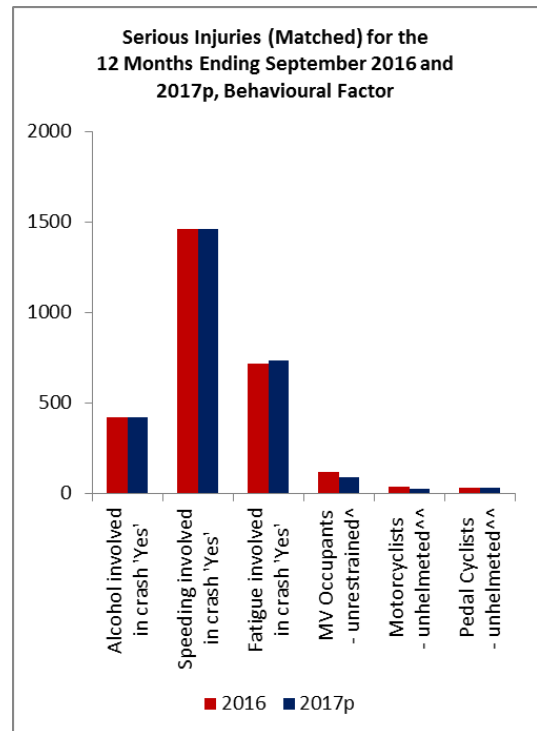
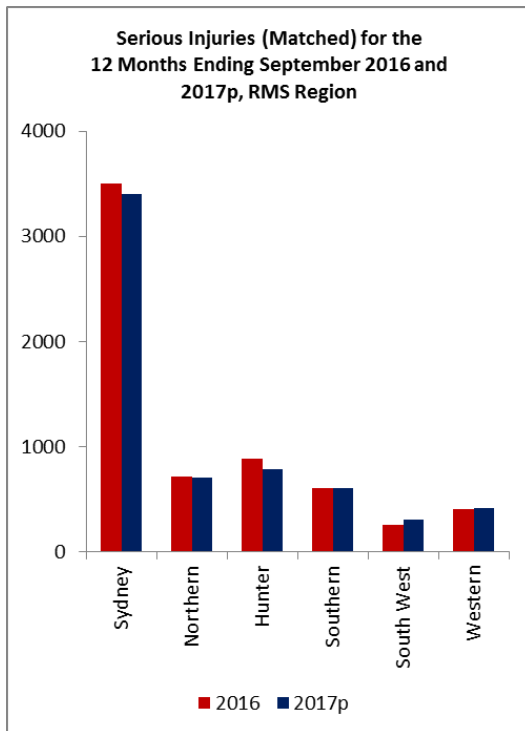
Serious Injuries (Matched) cont....

	12 months ending Sept 2017p	12 months ending Sept 2016	# Change	% Change
<b>RMS Region (CRS)</b>				
Sydney	3407	3499	-92	-3%
Northern	710	711	-1	0%
Hunter	783	889	-106	-12%
Southern	609	601	8	1%
South West	309	255	54	21%
Western	418	410	8	2%
<b>Total</b>	<b>6236</b>	<b>6365</b>	<b>-129</b>	<b>-2%</b>
<b>Behaviour Factors</b>				
Alcohol involved in crash 'Yes'	422	422	0	0%
Speeding involved in crash 'Yes'	1459	1459	0	0%
Fatigue involved in crash 'Yes'	737	720	17	2%
<b>Safety Device Usage</b>				
Driver - unrestrained^	62	87	-25	-29%
Passenger - unrestrained^	30	35	-5	-14%
Motor Vehicle Occupants - unrestrained^	92	122	-30	-25%
Motorcyclists- unhelmeted^^	28	41	-13	-32%
Pedal Cyclists - unhelmeted^^	35	32	3	9%

^ belt not worn

^^ no helmet worn

p Preliminary data subject to change.

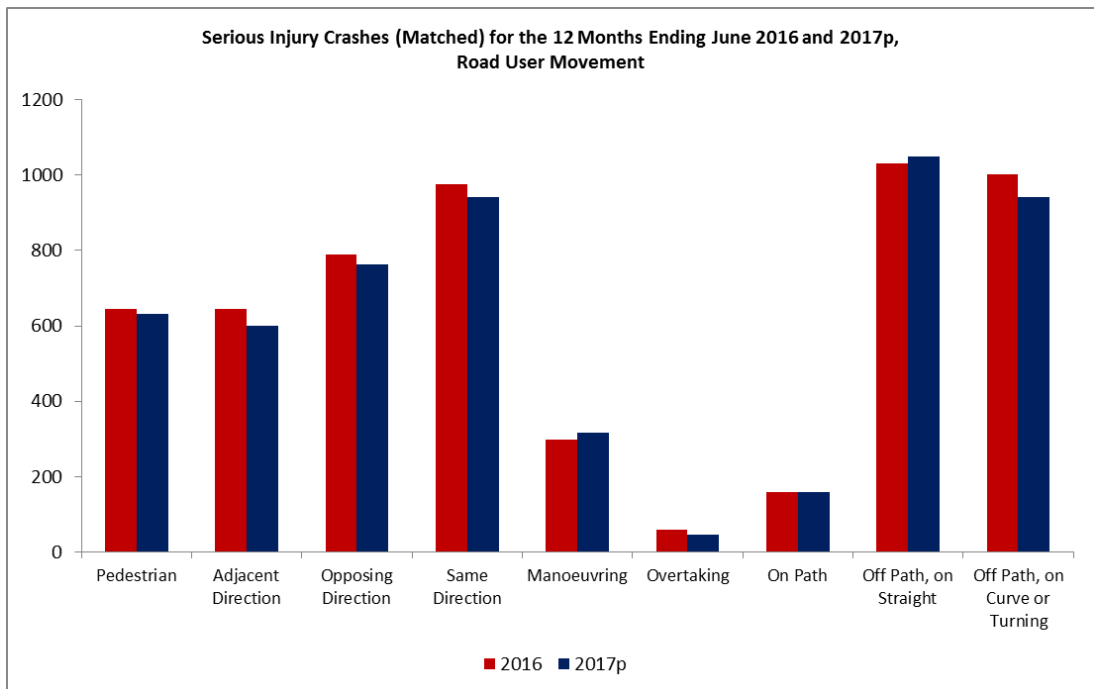
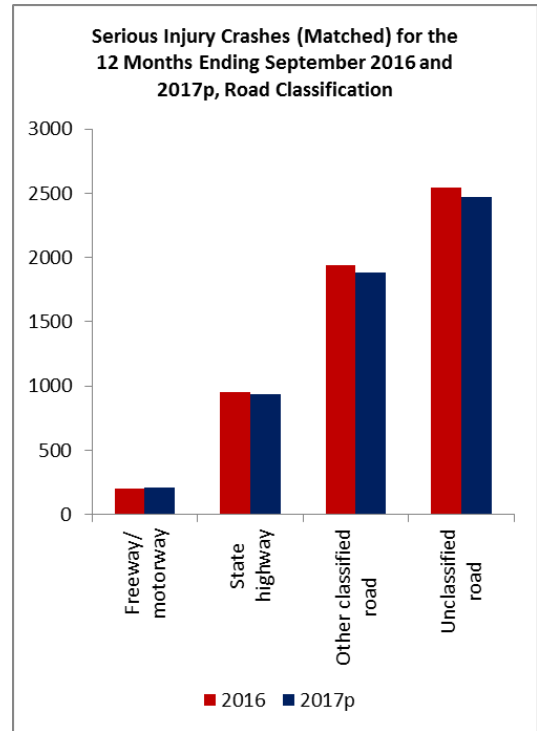
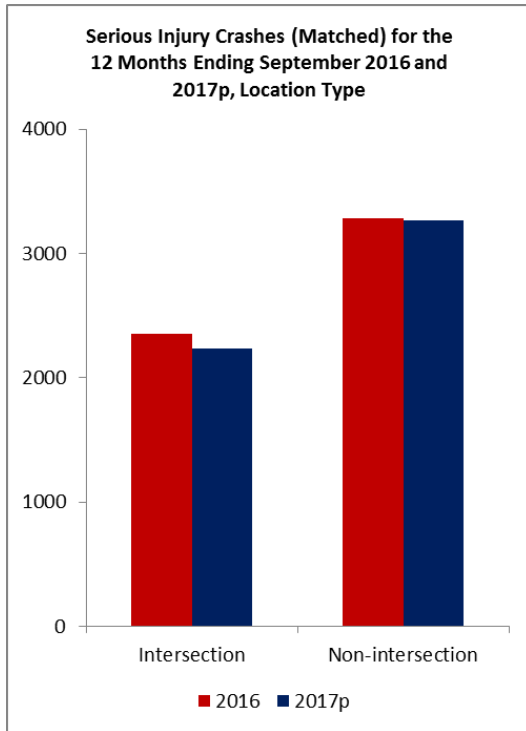


## 4.2 Serious injury crashes

### Serious Injury Crashes (Matched)

	12 months ending Sept 2017 <sup>p</sup>	12 months ending Sept 2016	# Change	% Change
<b>Location type</b>				
Intersection	2235	2352	-117	-5%
Non-intersection	3266	3283	-17	-1%
<b>Total</b>	<b>5501</b>	<b>5635</b>	<b>-134</b>	<b>-2%</b>
<b>Road classification</b>				
Freeway/motorway	208	199	9	5%
State highway	940	955	-15	-2%
Other classified road	1879	1939	-60	-3%
Unclassified road	2474	2542	-68	-3%
<b>Total</b>	<b>5501</b>	<b>5635</b>	<b>-134</b>	<b>-2%</b>
<b>Type of crash (RUM)</b>				
Pedestrian	632	644	-12	-2%
Cross Traffic	324	321	3	1%
Other Turning Adjacent	276	323	-47	-15%
Head On (Not O'Taking)	302	295	7	2%
Other Turning Opposite	462	494	-32	-6%
Rear End (incl Left and Right Rear)	661	693	-32	-5%
Lane Side Swipe (incl lane change left / right)	194	195	-1	-1%
Other Turn Side Swipe	86	87	-1	-1%
Manoeuvring	317	298	19	6%
Overtaking	47	59	-12	-20%
On Path	159	159	0	0%
Off Path, on Straight	1050	1031	19	2%
Off Path, on Curve or Turning	941	1003	-62	-6%
Miscellaneous / Unknown	50	33	17	52%
<b>Total</b>	<b>5501</b>	<b>5635</b>	<b>-134</b>	<b>-2%</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
2017 <sup>p</sup>	1576	1603	1434		4613	
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
	2017 <sup>p</sup>	1589	1471	1366		4426
All Hospitalisations	2005	2899	2947	2831	3090	11767
	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
	2017 <sup>p</sup>	3165	3074	2800		9039

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

<sup>4</sup> Serious injuries are estimated to be under-enumerated by about 4.5 per cent for the latest quarter and are projected to increase by a magnitude of around 125.

Note: there have been a small number of changes to finalised 2005 to 2016 data in the above table, please refer to note on page 3.