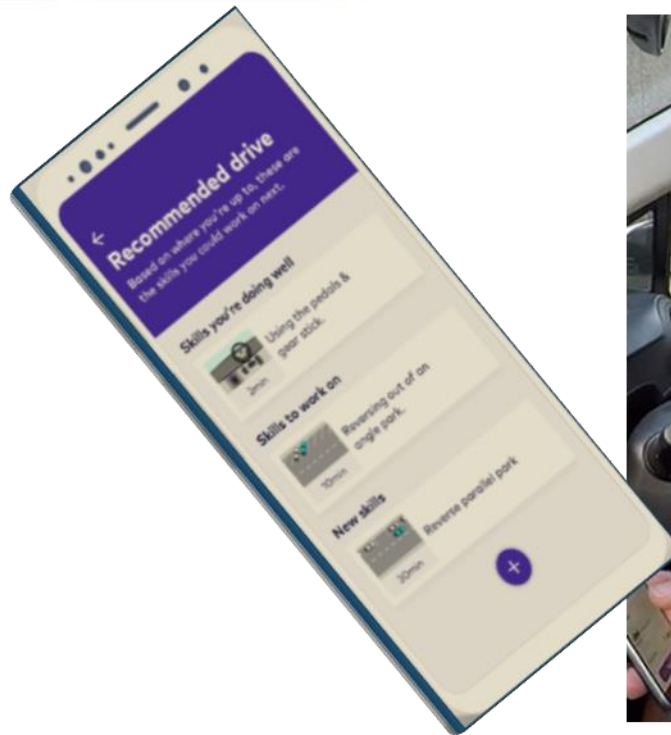


# ROAD SAFETY OUTCOMES

Supplement to the NZ Transport Agency's  
*Quarterly results and insights*

1 July to 30 September 2019

Q1 2019/20



## This quarterly summary of road safety outcomes shows:

- an overall picture of fatal and serious casualties in road crashes over the past five years
- a set of intermediate outcome measures for each of the *Safer Journeys* areas of concern, **by calendar year**
- the trend in a representative headline measure over the past five years for each of the *Safer Journeys* areas of concern
- trends in eight of the *Safer Journeys* areas of concern over the past five years in the four NZ Transport Agency regional groupings
- Local Government Region and Police District comparisons against a representative headline outcome measure for each of the *Safer Journeys* areas of concern.

The outcome indicator for **light vehicle safety** has changed in this report to show the more useful *percentage of new light vehicles with an ANCAP 5-star rating*. Previous figures showed the percentage of ANCAP rated vehicles which had a 5-star rating, but around a quarter of new light vehicles sold in NZ do not have ANCAP ratings.

Outcome measures are provided for the most recently available quarter, to September 2019 in some cases but usually to June 2019. Some measures are only available on an annual basis.

In some cases, the national outcome measures are not available at Regional or Police District level, so alternative headline measures are presented in the relevant charts. In the Regional and Police District charts, some measures are shown on an averaged three-yearly basis where the numbers are too small to give meaningful single year comparisons.

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Cover picture: **Safe Users**. The Drive Go app has been developed to help learner drivers progress through the licensing system and develop safe driving skills. Young drivers are most at risk of death and serious injury, and the first 6-12 months of driving solo is the riskiest period. Therefore, a customer design approach has focused on the target audience of risk-taking males, aged 16-20, on learner licences. It's been developed as part of the Drive programme to extend the existing product family which is fronted by [drive.govt.nz](http://drive.govt.nz). Drive Go encourages young drivers to develop and practice driving skills in a range of conditions, tracks and rewards driving progress and experience, and helps young drivers prepare for the practical driving test, while their coach is on-hand to guide their learning.

## Key results for the quarter

- 63 people were killed in road crashes in the quarter, resulting in a total of 356 killed in the last 12 months, still more than 100 higher than at the end of 2013
- leading injury indicators continue to increase, with nearly **3400 people hospitalised** each year and over 6600 ACC claims resulting from road crashes
- the number of vehicle occupants **killed while not using restraints** has fallen to around 80 per year since 2017, most notably in the South Island
- casualties from **alcohol and drug-related crashes** have been increasing in the Central North Island regions, but falling elsewhere.

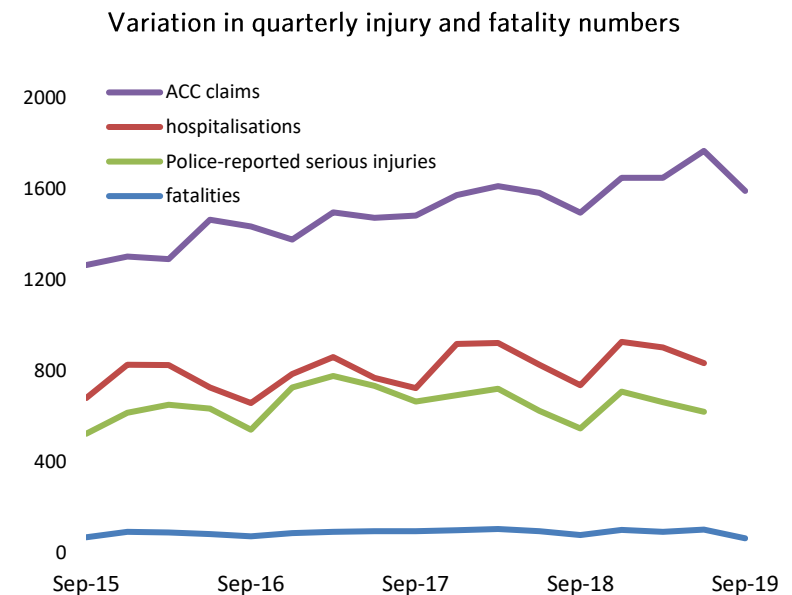
## Injury vs fatality trends

In general, the key road safety indicator in New Zealand has been the number of deaths and seriously injured road casualties, or “DSIs”. This indicator reflects the principle that in a safe system, no-one should be killed or seriously injured as a result of road crashes.

The components of this indicator, fatalities and serious injuries, have different properties. While tragic, road fatalities constitute a relatively small number which can fluctuate quite widely, around 90 each quarter or 360 each year. Quarterly totals of 80 or 105 are essentially the same and not too much should be read into the difference. A rolling 12 month total reduces this variability, and shows a fairly static trend.

Injury numbers are much larger, still with monthly or quarterly variation, but with more certainty about the trends. Serious injuries as reported in the Crash Analysis System are those from Police-attended crashes and so represent only part of the picture. These are decreasing. A more complete, and increasing, picture is obtained from hospital or ACC claims data, where **all admissions** or **all claims** have to be counted. Health data are better to show trends, but lack the detail of a Police crash report.

The chart compares injury and fatality numbers each quarter over the past four years.



## More information ...

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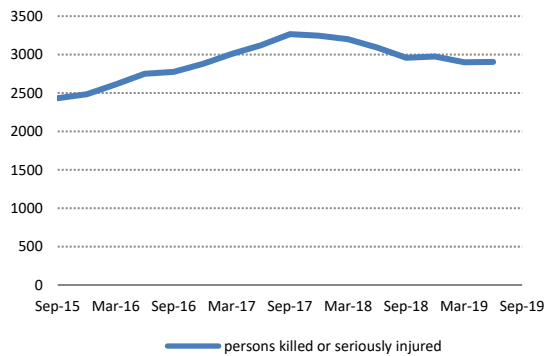
This document and its time series data are available on the NZ Transport Agency's website at <http://www.nzta.govt.nz/resources/road-safety-outcomes/>.

# ROAD SAFETY OUTCOME TRENDS 2015-2019 (12 month rolling figures)

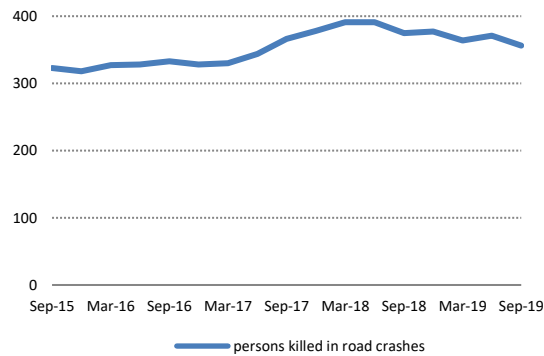
Road safety outcome measures in the following charts and tables are provided for the last five years, up to the most recently available quarter. The measures are obtained from the Transport Agency's Crash Analysis System\*, ACC entitlement claims, Ministry of Health hospital discharge data\*, Ministry of Transport speed, restraint and public attitude surveys, Statistics NZ population data, Police enforcement data, and new vehicle registration figures.

(\* Injury data from the Crash Analysis System and from hospital discharge data are incomplete for the most recent quarter and should be treated as provisional.)

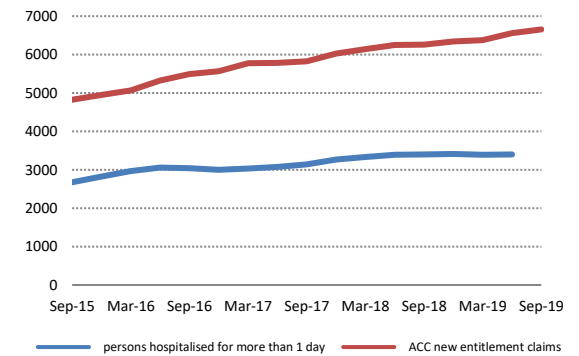
**Overall outcomes: DSIs**



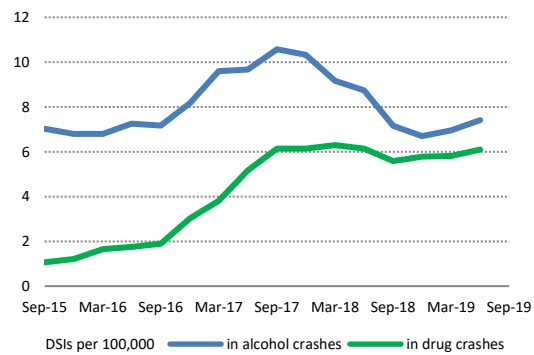
**Overall outcomes: fatalities**



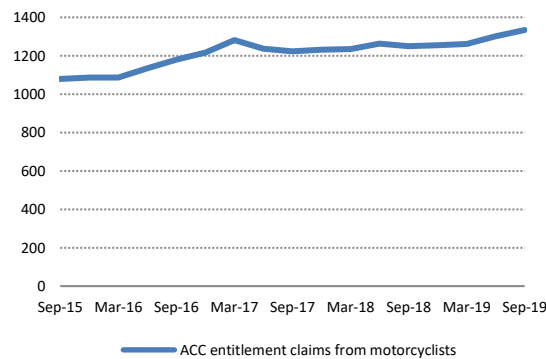
**Overall outcomes: injuries**



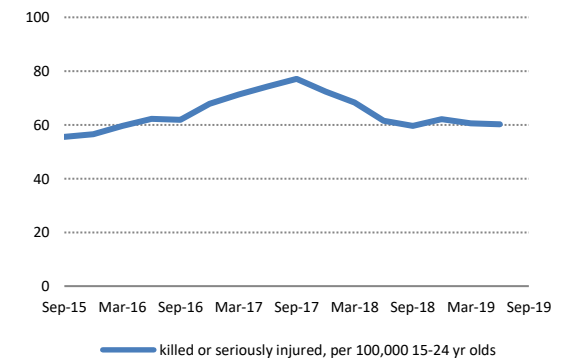
**Alcohol and drugs**

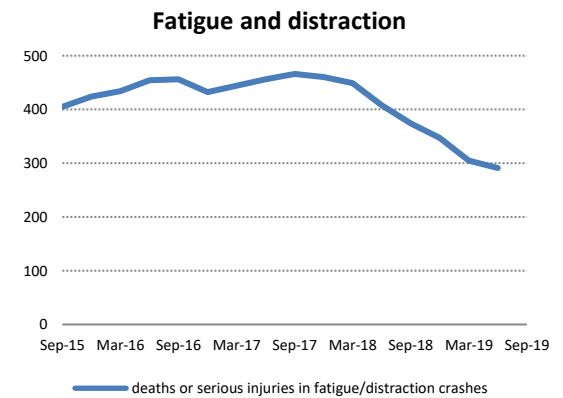
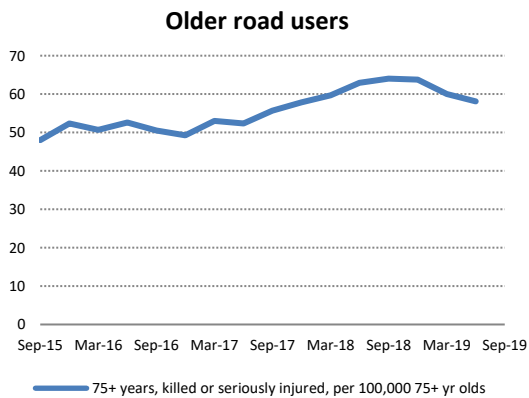
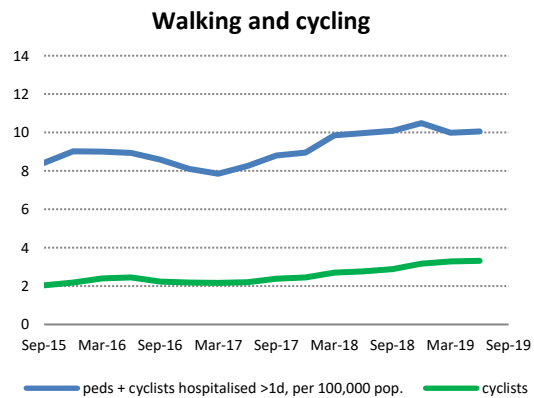
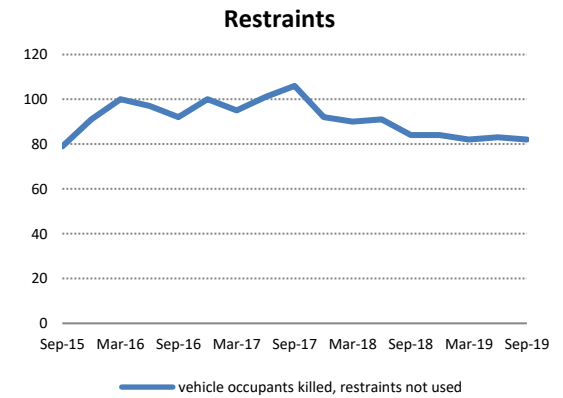
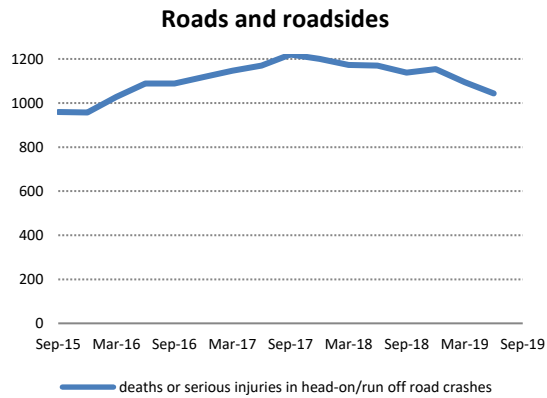
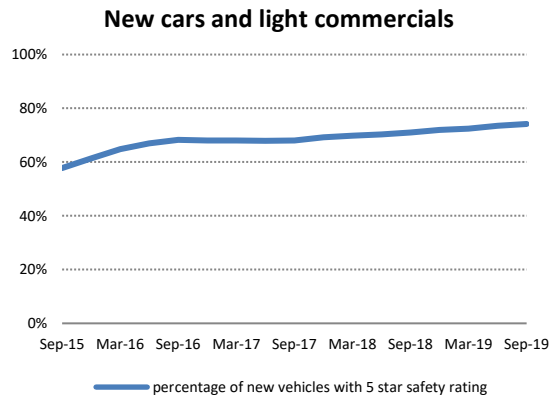
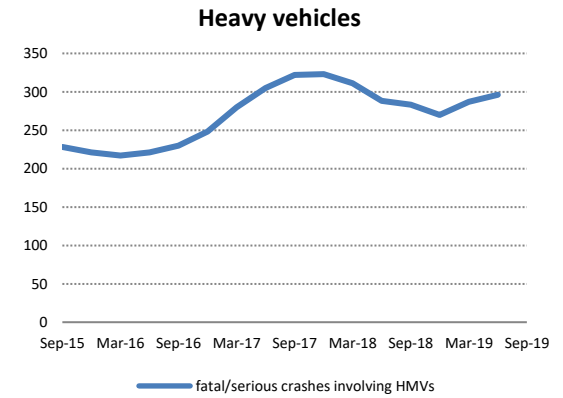
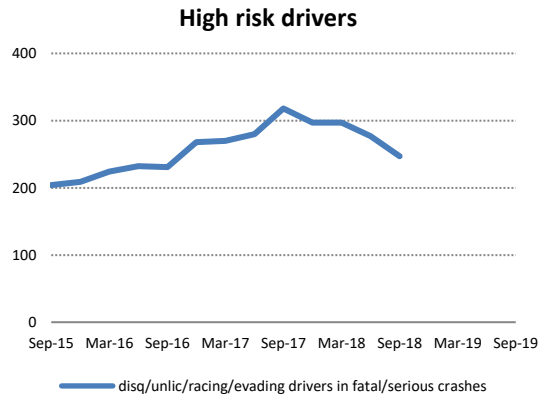
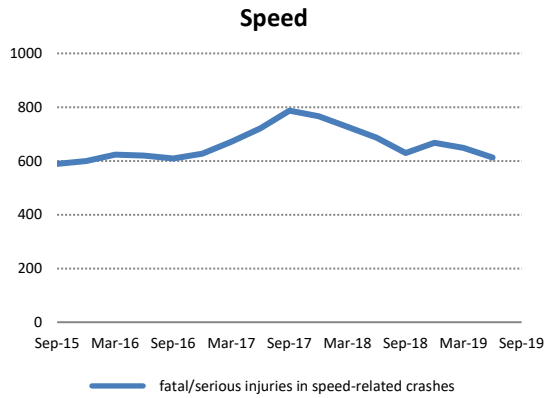


**Motorcycling**



**Young drivers**





NATIONAL ROAD SAFETY OUTCOMES IN DETAIL	LATEST FIGURES			LAST FIVE CALENDAR YEARS				
	latest quarter	latest 12 months	as at	2014	2015	2016	2017	2018
<b>Overall outcomes</b>								
<b>persons killed or seriously injured in road crashes</b>	722	2906	Jun 2019	2369	2483	2880	3244	2975
fatal or serious injury crashes	606	2432	Jun 2019	2003	2124	2401	2755	2457
persons killed in road crashes	63	356	Sep 2019	294	318	328	378	377
persons killed in road crashes, per 100,000 population, per year	5.1	7.2	Sep 2019	6.5	6.9	6.9	7.9	7.7
persons killed in road crashes, per billion vehicle km travelled	5.3	7.4	Sep 2019	6.9	7.5	7.5	8.3	8.0
persons killed or seriously injured, per 100,000 population, per year	59	59	Jun 2019	52	53	61	68	61
persons hospitalised for more than 1 day (>1d), non-fatal	833	3399	Jun 2019	2626	2822	2996	3269	3412
ACC new entitlement claims	1591	6655	Jun 2019	4618	4953	5567	6024	6339
<b>Alcohol and drugs</b>								
<b>fatal or serious injuries in alcohol (+ve test), per 100,000 population, per year</b>	8.6	7.4	Jun 2019	6.5	6.8	8.2	10.3	6.7
drivers killed with excess alcohol, per 100,000 population	0.9	1.0	Sep 2018	0.7	1.1	1.1	1.0	
fatal or serious injuries in drug-related crashes (suspected/confirmed), per 100,000	7.7	6.1	Jun 2019	0.5	1.2	3.0	6.1	5.8
% think high probability being stopped at CBT checkpoint	-	50%	2016	50%	49%	50%	-	-
% admit driven while affected by prescription or other drugs	-	9%	2016	10%	8%	9%	-	-
<b>Young drivers</b>								
<b>young drivers killed or seriously injured, per 100,000 15-24 year olds, per year</b>	48	60	Jun 2019	54	56	68	72	62
young drivers (15-24 years) hospitalised >1d, per 100,000 15-24 year olds, per year	43	52	Jun 2019	46	45	46	55	50
young drivers (15-24 years) killed, per 100,000 15-24 year olds, per year	3.1	6.4	Sep 2019	4.6	8.1	6.9	7.0	8.4
young drivers (15-24 years) killed with excess alcohol, per 100,000 15-24 yr olds, per year	1.8	1.9	Sep 2018	2.0	2.9	3.3	2.5	
% youth believe will be stopped for non-alcohol/speed traffic offences	-	39%	2016	49%	45%	39%	-	-
drivers on GDL primary contributor in fatal/serious crashes	75	289	Sep 2018	245	289	308	371	
fatal and serious crashes involving 15-19 year old drivers	60	283	Dec 2018	233	278	341	328	283
<b>Speed</b>								
<b>deaths or serious injuries in speed-related crashes</b>	116	613	Jun 2019	553	599	627	766	668
% vehicles exceeding 100 km/h limits	-	23%	2015	22%	23%			
deaths or serious injuries in open road (80-100km/h) crashes	380	1572	Jun 2019	1331	1336	1599	1727	1659
fatal/serious speed-related crashes	100	489	Jun 2019	447	502	492	617	508
% disagree probability being detected speeding is small	-	55%	2016	57%	57%	55%	-	-
mean rural speed (km/h)	-	95.7	2015	95.3	95.7			
mean urban speed (km/h)	-	50.4	2015	51.1	50.4			
<b>Motorcycling</b>								
<b>ACC entitlement claims from motorcyclists</b>	287	1334	Jun 2019	1058	1087	1217	1232	1255
motorcycle and moped riders killed, per 100,000 population, per year	0.4	1.0	Sep 2019	0.9	1.1	1.1	0.9	1.1
% of motorcycles in crashes with non-current WoFs	21%	19%	Jun 2019	25%	25%	20%	16%	19%
motorcyclists hospitalised >1d, per 100,000 population, per year <sup>(1)</sup>	15.9	15.3	Jun 2019	12.4	13.2	13.9	15.2	14.6
<b>Roads and roadsides</b>								
<b>fatal or serious injuries in head-on* and run off road crashes, 80-100 km/h roads</b>	243	1043	Jun 2019	956	957	1118	1200	1154
fatal or serious injuries in head-on (* not overtaking) crashes, 80-100 km/h roads	83	378	Jun 2019	322	323	316	419	435
fatal or serious injuries in run off road crashes, 80-100 km/h roads	160	665	Jun 2019	634	634	802	781	719
fatal or serious injuries in intersection crashes	252	883	Dec 2018	712	718	819	932	883
fatal or serious injuries in pedestrian/cyclist crashes	124	494	Sep 2018	434	449	470	542	
fatal or serious injuries in all crashes on SH network	239	1032	Jun 2019	937	931	1057	1200	1145

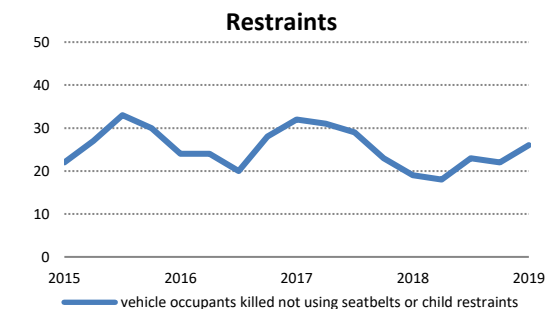
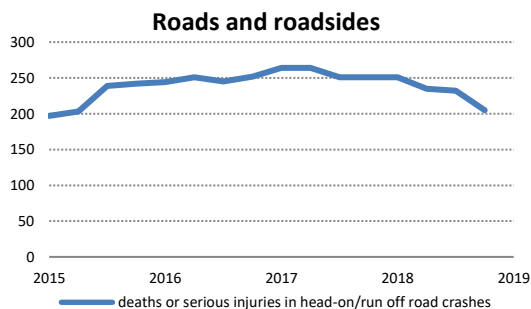
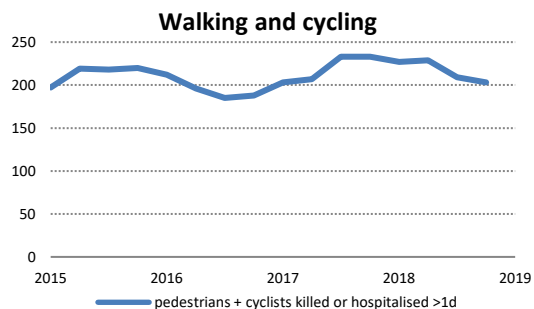
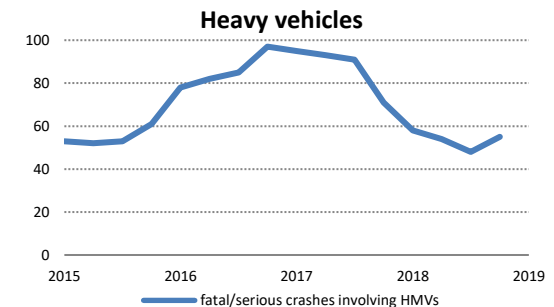
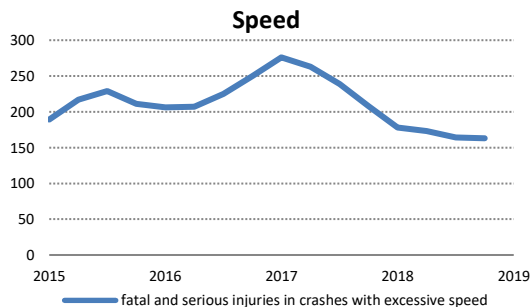
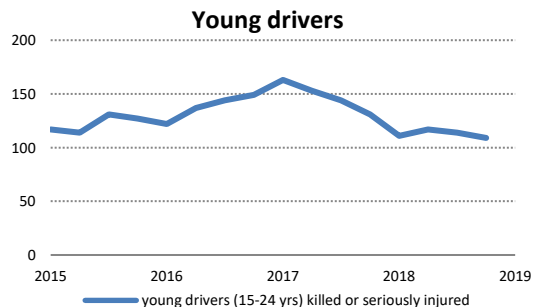
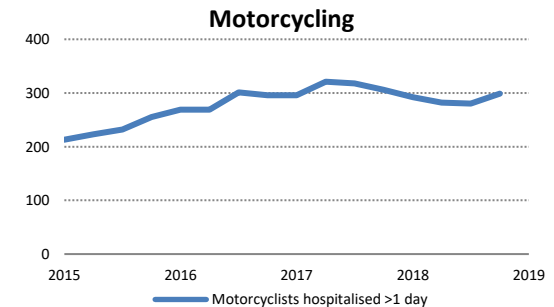
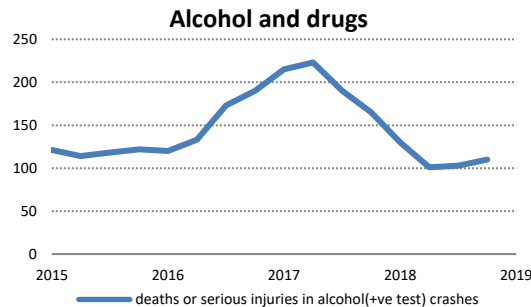
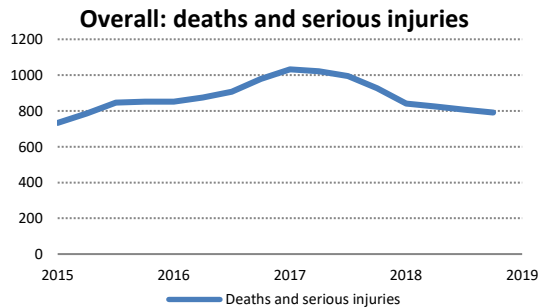
NATIONAL ROAD SAFETY OUTCOMES IN DETAIL	LATEST FIGURES			LAST FIVE CALENDAR YEARS				
	latest quarter	latest 12 months	as at	2014	2015	2016	2017	2018
<b>High risk drivers</b>								
<b>high risk drivers<sup>(1)</sup> in fatal or serious injury crashes</b>	57	247	Sep 2018	183	209	268	296	
disqualified drivers detected driving	1735	7406	Jun 2019	7860	7368	7938	7878	7777
notices issued for 3 <sup>rd</sup> or subsequent drunk/drugged driving offences	998	4396	Jun 2019	4974	4281	4242	4355	4482
disqualified or unlicensed drivers involved in fatal/serious crash	53	214	Sep 2018	167	185	241	244	
<b>Light vehicles</b>								
<b>% of new vehicles with 5-star safety rating</b>	75%	74%	Sep 2019	49%	61%	68%	69%	72%
% of vehicles in fatal/serious crashes with non-current WOFs <sup>(2)</sup>	20%	18%	Jun 2019	9%	11%	15%	18%	17%
% of fatal/serious injuries in crashes with contributing vehicle faults	3%	4%	Mar 2019	3%	3%	5%	6%	5%
average (median) age of light vehicle fleet (years)	-	14.2	Mar 2019	14.0	14.0	14.1	14.0	14.2
<b>Fatigue and distraction</b>								
<b>fatal or serious injuries in fatigue/distraction crashes</b>	75	291	Jun 2019	411	424	432	460	347
fatal/serious injuries in crashes with contributing driver fatigue	34	140	Jun 2019	196	214	206	180	165
fatal/serious injuries in crashes with contributing driver distraction	41	155	Jun 2019	225	220	245	284	184
<b>Heavy vehicles</b>								
<b>fatal/serious crashes involving HMVs</b>	68	296	Jun 2019	222	221	248	324	270
fatal/serious injuries in HMV crashes	80	351	Jun 2019	277	259	321	404	333
% of fatal/serious HMV crashes where HMV was primary contributor	76%	59%	Jun 2019	47%	53%	44%	47%	53%
% of HMV drivers exceeding 90 km/h speed limit	-	31%	2015	31%	31%	-	-	-
<b>Walking and cycling</b>								
<b>pedestrians and cyclists hospitalised &gt;1d, per 100,000 population, per year</b>	10.9	10.0	Jun 2019	8.7	9.0	8.1	8.9	10.5
pedestrians hospitalised >1 day, per 100,000 population, per year	7.8	6.7	Jun 2019	6.1	6.8	5.9	6.5	7.3
pedestrians and cyclists killed, per 100,000 population, per year	0.8	0.8	Sep 2019	1.2	0.7	0.7	1.2	0.9
fatal or serious injuries to school age (5-17) cyclists and pedestrians	17	65	Jun 2019	78	67	65	68	73
cyclists killed or hospitalised >1 day	43	173	Jun 2019	127	107	108	136	160
% cyclists wearing helmets	-	94%	2015	-	94%	-	-	-
<b>Older road users</b>								
<b>persons 75+ yrs killed or seriously injured in crashes, per 100,000 75+ yr olds, per year</b>	56	58	Jun 2019	50	52	49	58	64
persons 75+ years killed in road crashes	9	33	Sep 2019	36	30	27	37	42
persons 75+ years hospitalised >1d	115	408	Jun 2019	317	335	377	381	386
persons 75+ years, ACC claims, per 100,000 75+ year olds, per year	103	93	Jun 2019	75	80	80	81	84
<b>Restraints</b>								
<b>vehicle occupant deaths where restraints not worn</b>	18	82	Sep 2019	56	91	100	92	84
% of children (5-9 years) in booster seats or child restraints	-	26%	2015	-	26%	-	-	-
% front seat adult vehicle occupants restrained	-	97%	2016	97%	-	97%	-	-
% child (0-4 years) vehicle occupants restrained	-	93%	2016	93%	-	93%	-	-
% drivers think highly likely to be stopped for non-compliance	-	40%	2016	43%	41%	40%	-	-
Overseas-licensed drivers involved in fatal/serious crash	18	96	Sep 2019	126	127	142	151	121

(1) High risk driver = disqualified, unlicensed, illegal street racing, evading enforcement

(2) The national headline measure is not available at regional/district level; this measure is used instead for local government region and police district charts

## REGIONAL OUTCOME TRENDS, UPPER NORTH ISLAND (12 month rolling figures)

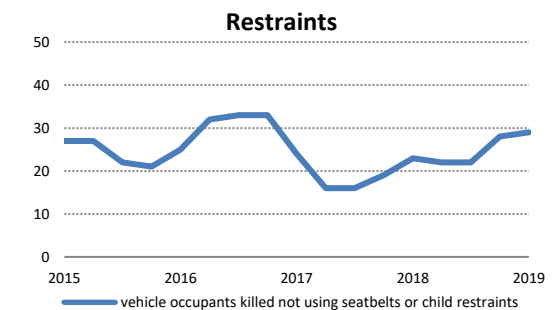
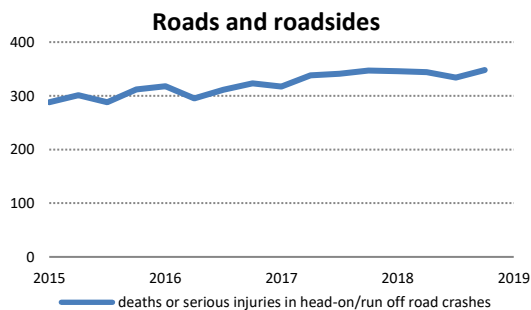
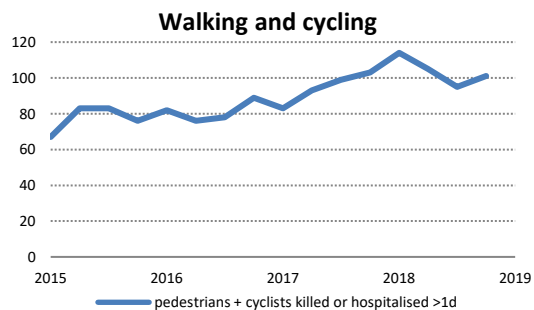
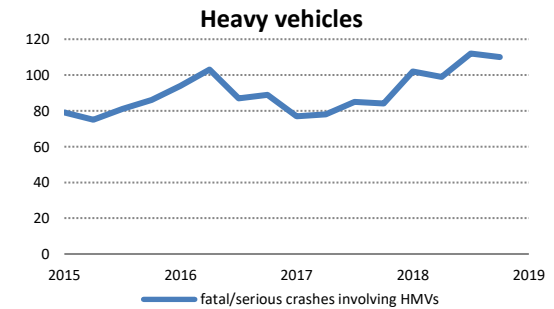
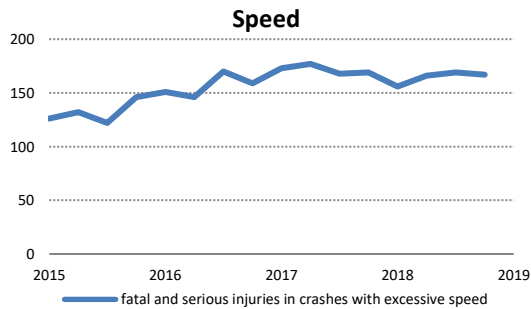
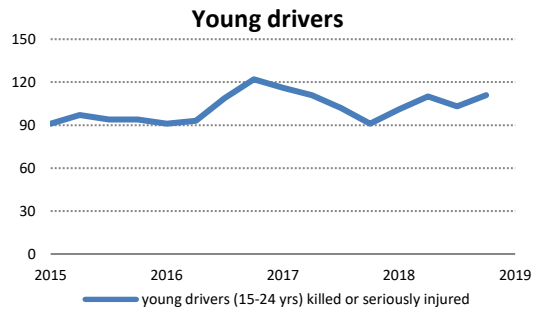
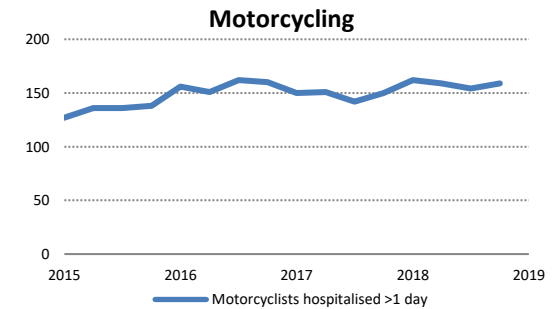
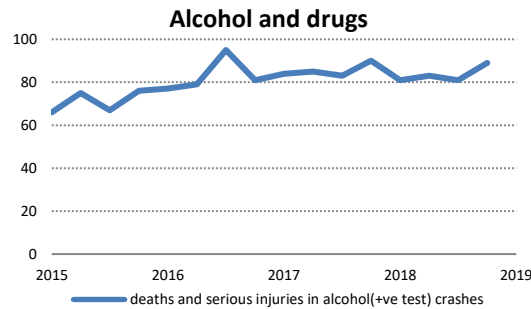
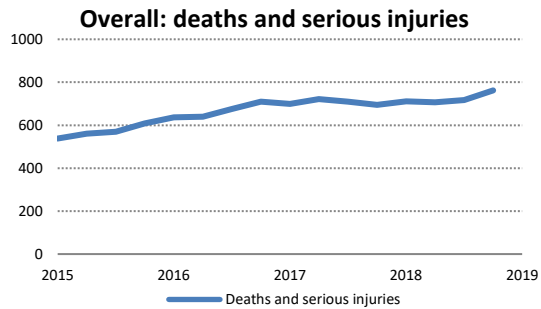
Road safety outcome measures for the four Transport Agency regional groupings are provided for the last five years in the following charts, up to the most recently available quarter, for eight of the *Safer Journeys* high and medium areas of concern. The measures are a subset of the national outcome measures presented earlier in this report (pages 4 - 7). Data for the other areas of concern are available in the [regional time series spreadsheet](#) accompanying this report.





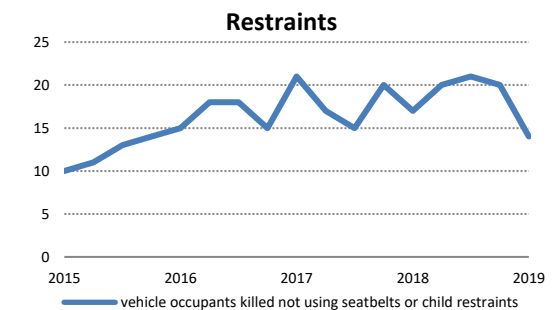
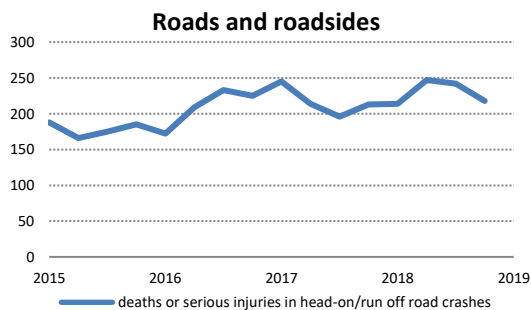
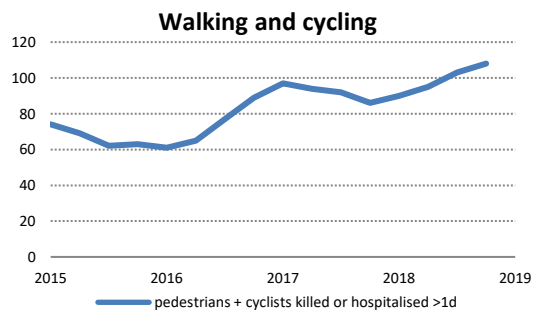
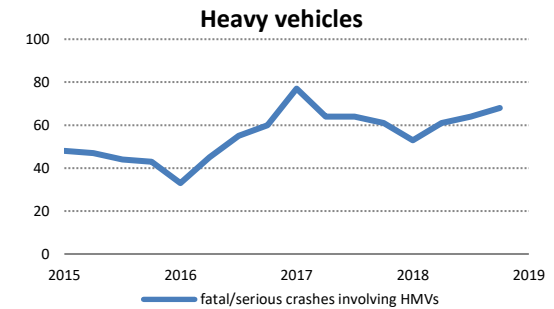
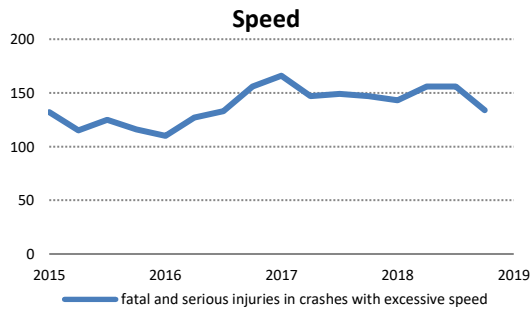
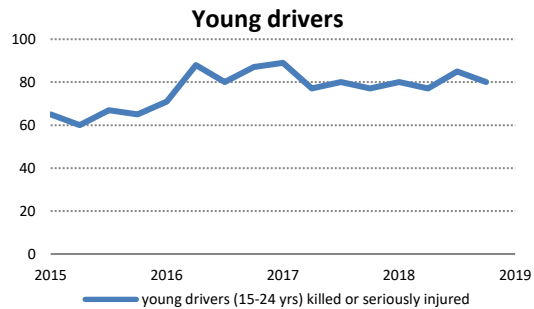
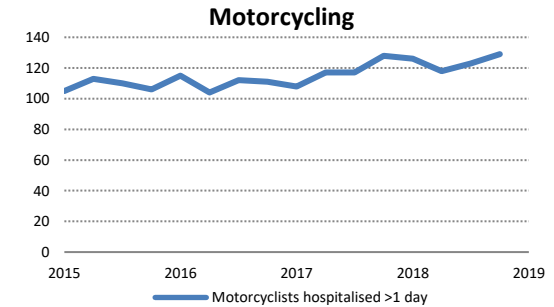
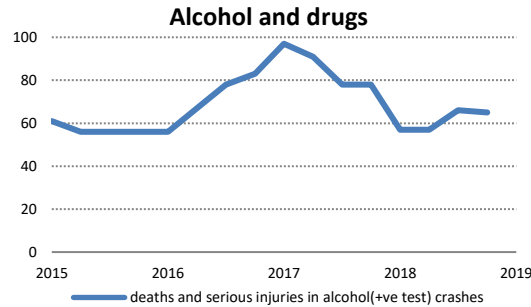
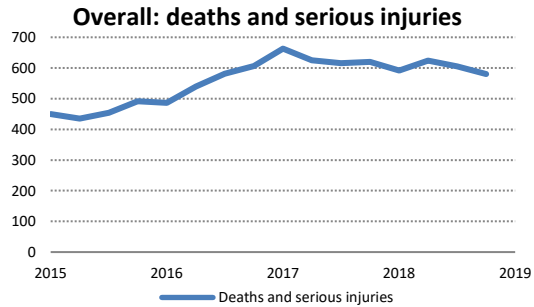
## REGIONAL OUTCOME TRENDS, CENTRAL NORTH ISLAND (12 month rolling figures)

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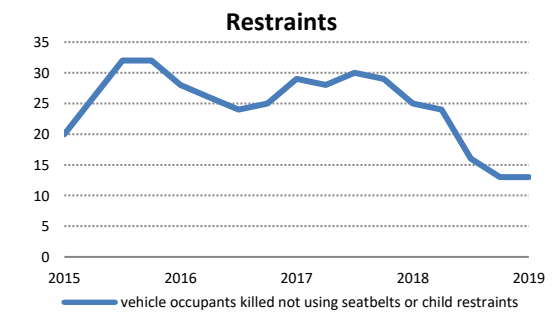
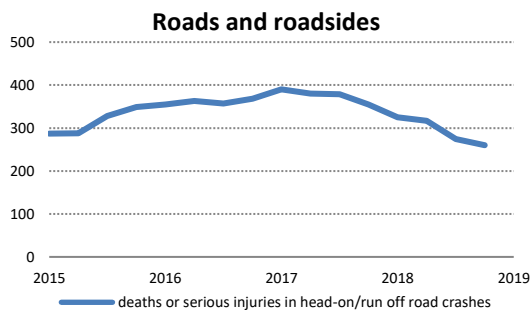
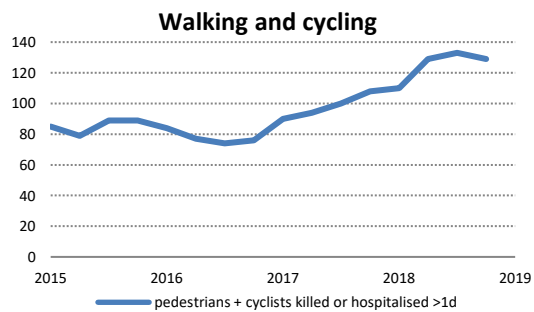
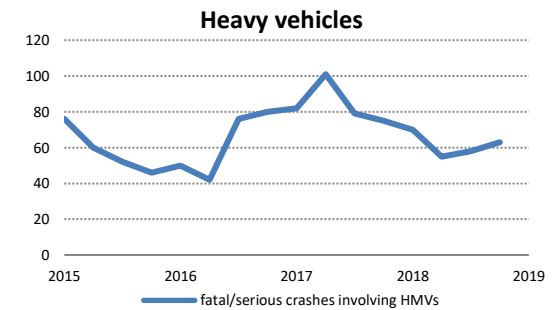
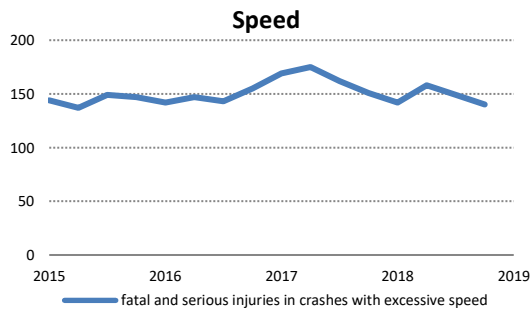
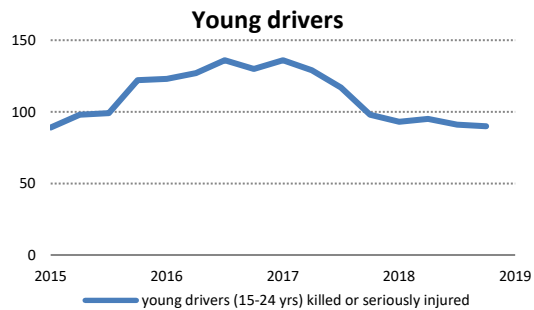
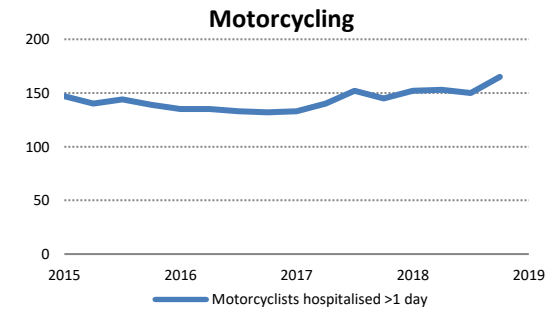
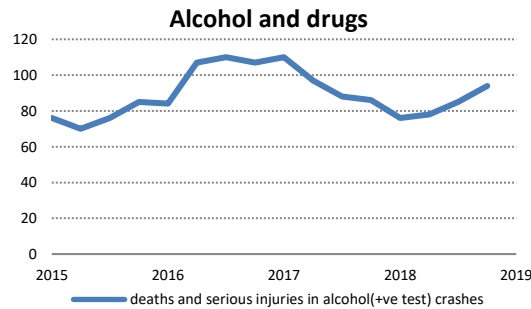
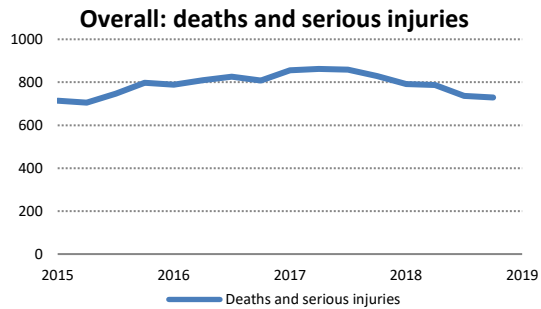
## REGIONAL OUTCOME TRENDS, LOWER NORTH ISLAND (12 month rolling figures)

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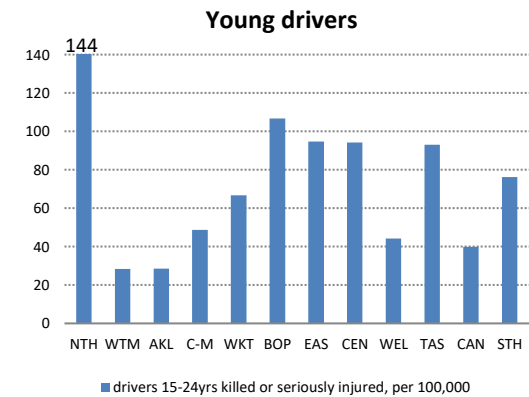
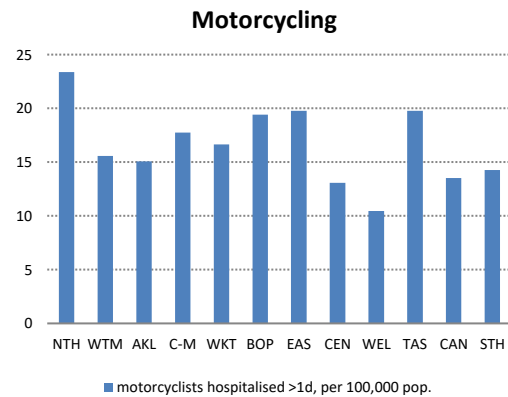
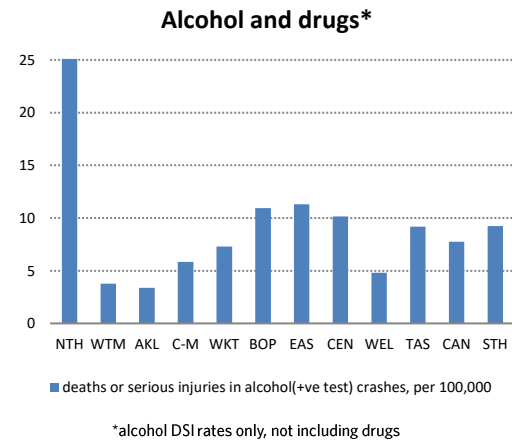
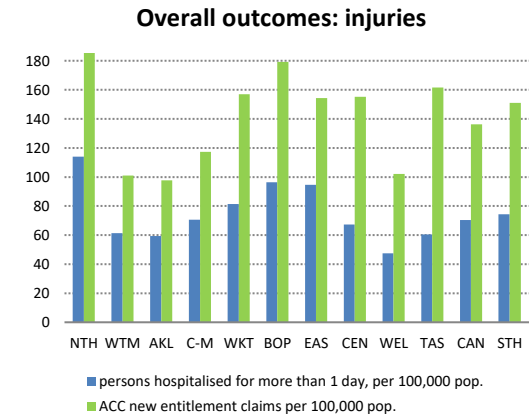
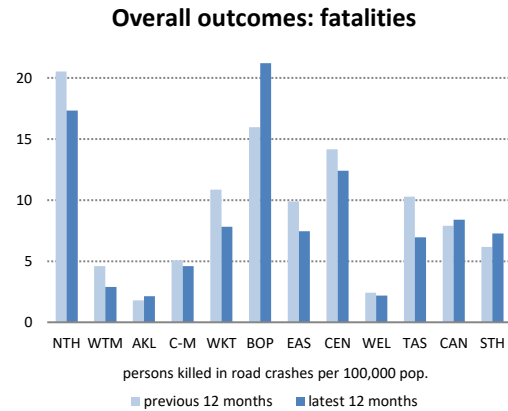
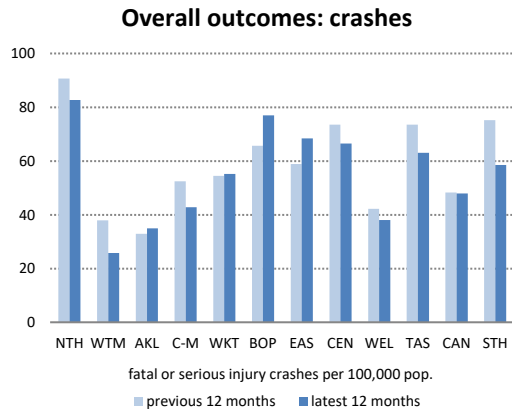
## REGIONAL OUTCOME TRENDS, SOUTH ISLAND (12 month rolling figures)

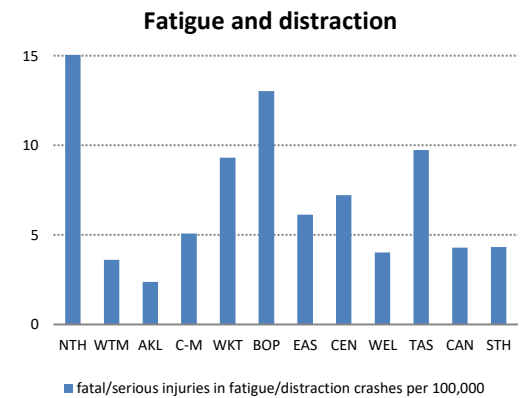
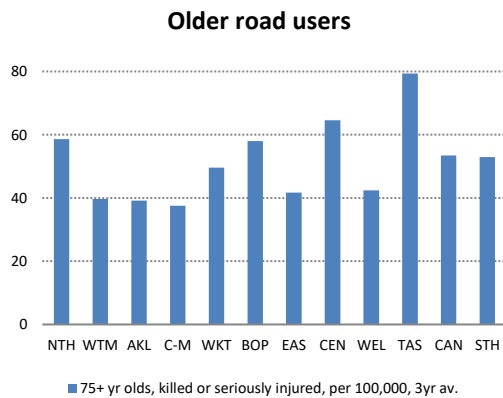
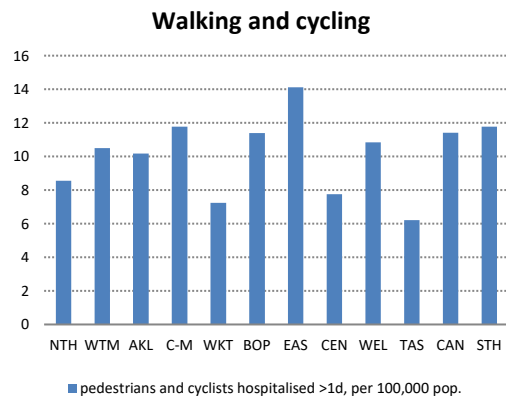
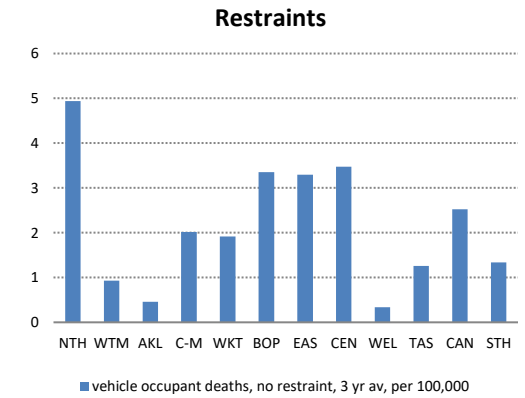
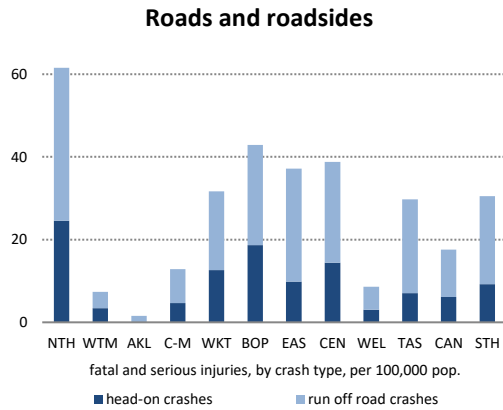
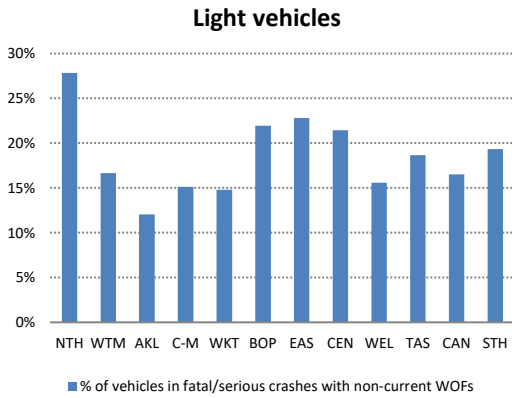
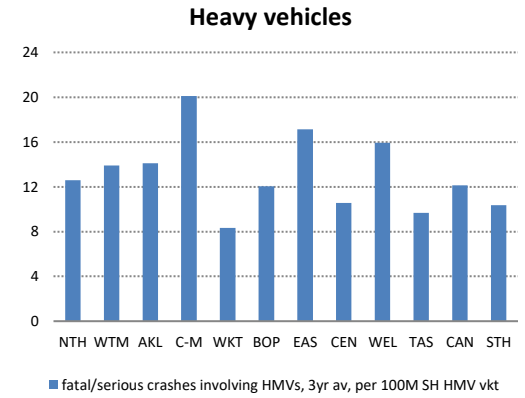
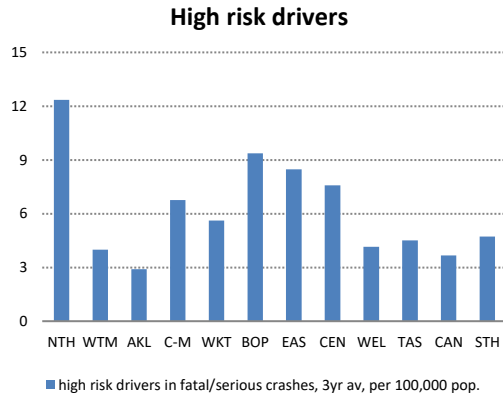
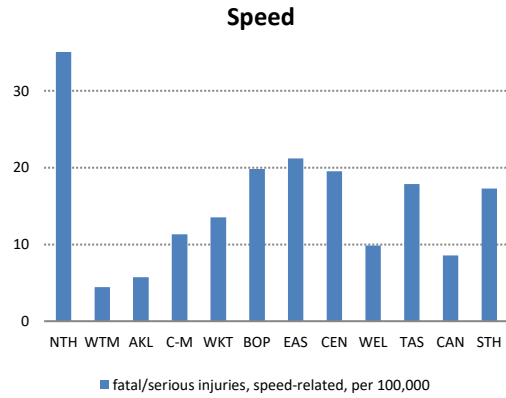
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# COMPARISON OF ROAD SAFETY OUTCOMES BY POLICE DISTRICT

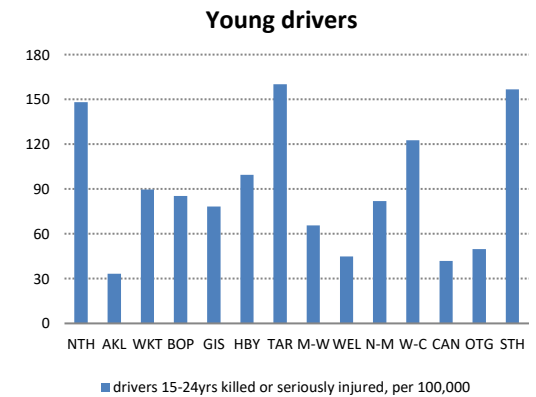
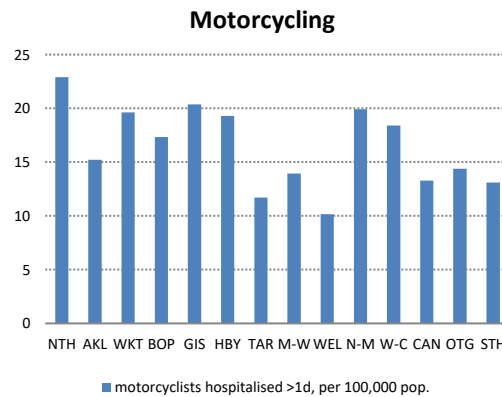
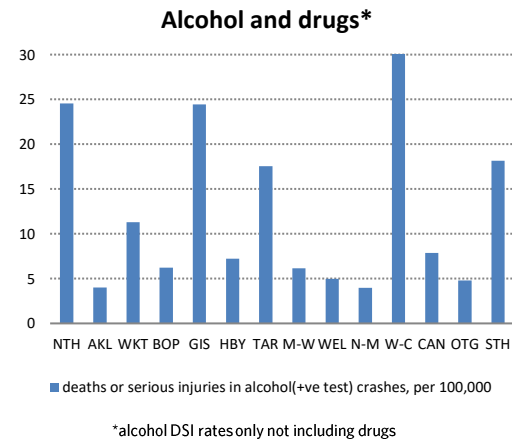
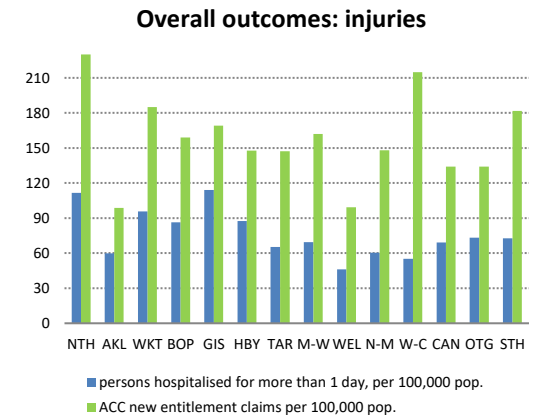
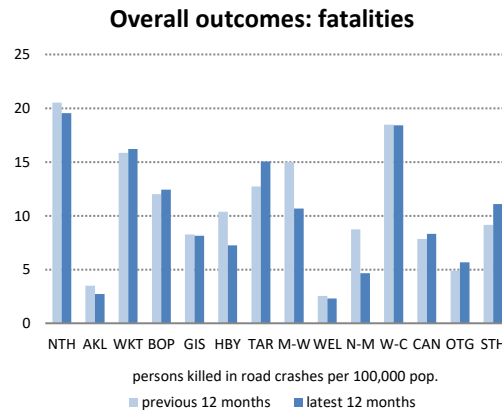
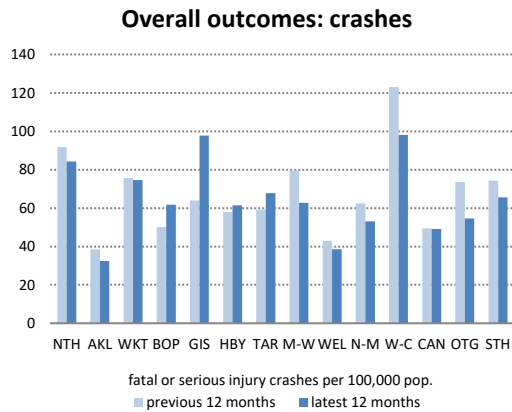
The following charts and tables show headline outcome measures for the 12 months to the end of the latest available quarter. Alternative measures are shown if the national measure is not available at a regional or Police district level. In cases where the numbers involved are too small to give meaningful single year comparisons, some measures are shown on an averaged three-yearly basis.

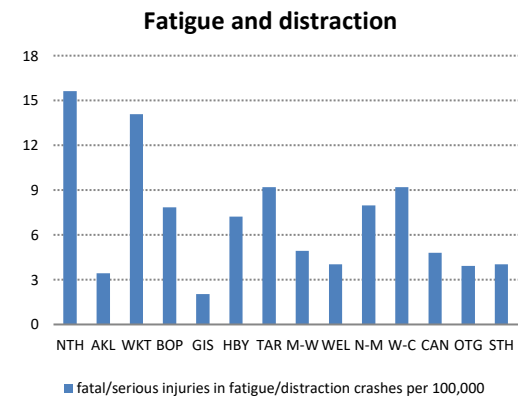
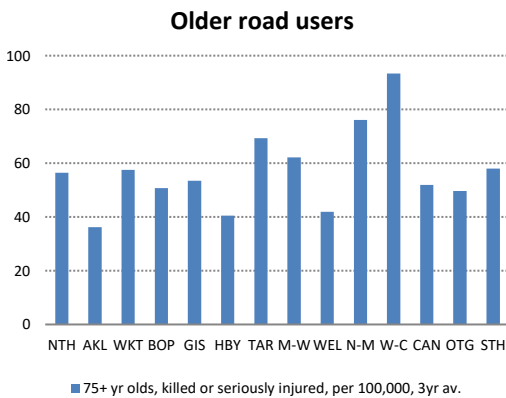
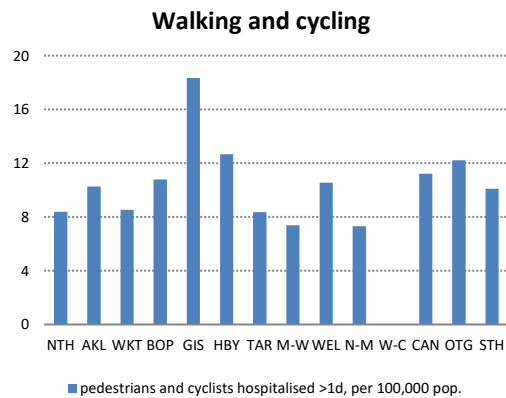
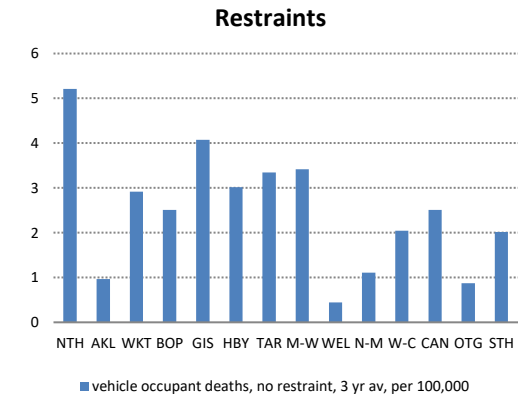
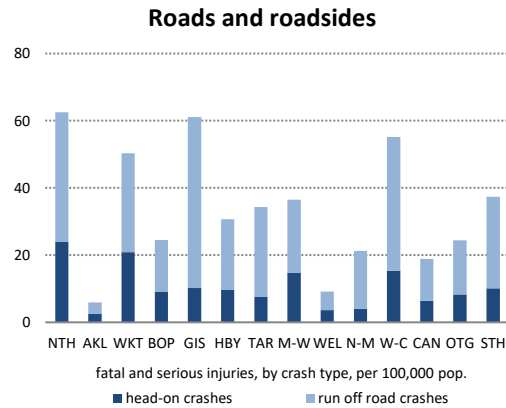
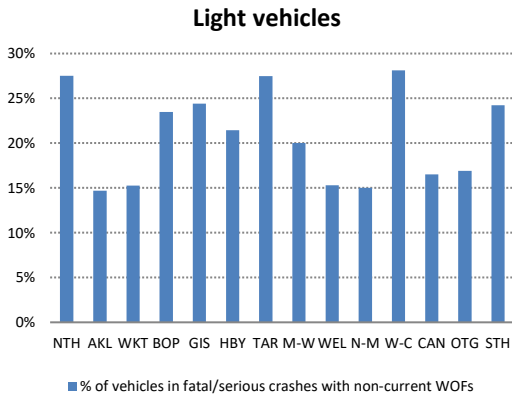
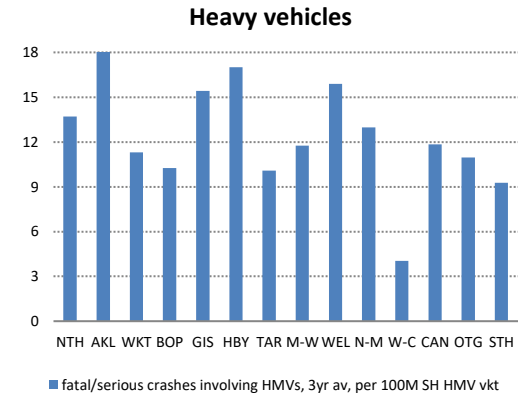
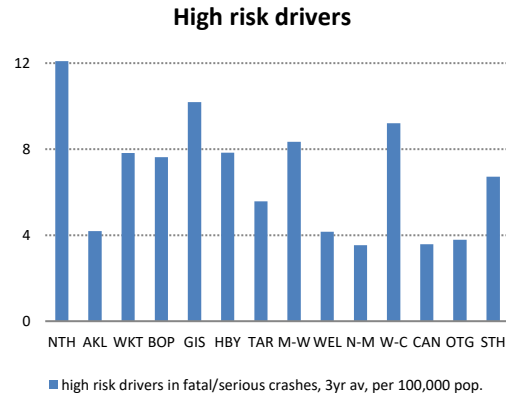
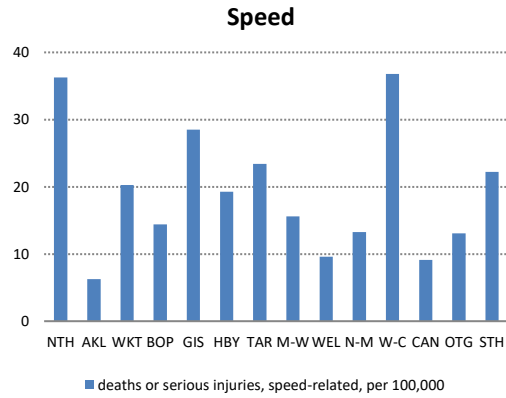




# COMPARISON OF ROAD SAFETY OUTCOMES BY LOCAL GOVERNMENT REGION

The following charts and tables show headline outcome measures for the 12 months to the end of the latest available quarter. Some alternative measures are shown if the national measure is not available at a regional or police district level. In cases where the numbers involved are too small to give meaningful single year comparisons, some measures are shown on an averaged three-year basis.





POLICE DISTRICT ROAD SAFETY OUTCOMES		NTH	WTM	AKL	C-M	Total Auck	WKT	BOP	EAS	CEN	WEL	TAS	CAN	STH	NZ
<b>Overall</b>	fatal or serious injury crashes per 100,000 popn.	83	26	36	38	33	66	72	68	68	37	63	48	58	50
	persons killed in road crashes, per 100,000 popn.	18	3	2	5	3	8	22	8	13	2	7	9	7	7.4
	persons hospitalised more than 1 day (>1d) , per 100000 popn.	114	61	59	71	64	81	96	95	67	48	61	70	74	71
	ACC new entitlement claims, per 100000 popn.	235	101	98	117	105	157	179	154	155	102	162	136	151	138
<b>Alcohol*</b>	deaths or serious injuries in alcohol(+ve test) crashes, per 100,000	25	4	3	6	4	7	11	11	10	5	9	8	9	8
<b>Youth</b>	young driver fatal/serious injuries, per 100,000 15-24 year olds	144	28	28	49	35	67	107	95	94	44	93	40	76	59
<b>Speed</b>	deaths + serious injuries in speed related crashes, per 100,000 popn.	36	4	6	11	7	14	20	21	20	10	18	9	17	13
<b>High risk</b>	high risk drivers in fatal/serious crash, 3-year average per 100,000 popn.	12	4	3	7	5	6	9	8	8	4	5	4	5	6
<b>Roads and roadsides</b>	deaths + serious injuries in head-on crashes, per 100,000 popn.	25	3	0	5	3	13	19	10	14	3	7	6	9	8
	deaths + serious injuries, run off road crashes, per 100,000 popn.	37	4	2	8	5	19	24	27	24	6	23	12	21	14
	deaths + serious injuries, intersection crashes, per 100,000 popn.	10	10	12	18	13	21	15	14	20	12	14	25	25	17
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	10	7	12	10	10	10	9	10	8	13	15	9	14	10
<b>Motorcycles</b>	motorcyclists hospitalised >1d, per 100,000 popn.	23	16	15	18	16	17	19	20	13	10	20	14	14	16
<b>Light vehicles</b>	% of vehicles in fatal/serious crashes without current WoFs	28%	17%	12%	15%	14%	15%	22%	23%	21%	16%	19%	17%	19%	18%
<b>Fatigue</b>	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	15	4	2	5	4	9	13	6	7	4	10	4	4	6
<b>Heavy vehicles</b>	fatal/serious crashes involving HMVs, 3yr avg, per 100m SH HMV vkt	13	14	14	20	16	8	12	17	11	16	10	12	10	12
<b>Walk/cycle</b>	pedestrians and cyclists hospitalised >1d, per 100,000 popn.	9	11	10	12	11	7	11	14	8	11	6	11	12	10
<b>Older users</b>	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	59	40	39	38	39	50	58	42	65	42	79	53	53	51
<b>Restraints</b>	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	4.9	0.9	0.5	2.0	1.1	1.9	3.4	3.3	3.5	0.3	1.3	2.5	1.3	1.9

REGIONAL ROAD SAFETY OUTCOMES		NTH	AKL	WKT	BOP	GIS	HBV	TAR	M-W	WEL	N-M	W-C	CAN	OTG	STH
<b>Overall</b>	fatal or serious injury crashes per 100,000 popn.	84	32	75	62	98	61	68	63	39	53	98	49	55	66
	persons killed in road crashes, per 100,000 popn.	16	3	16	14	12	8	15	14	3	5	18	8	4	13
	persons hospitalised more than 1 day (>1d) , per 100,000 popn.	112	60	96	86	114	87	65	69	46	60	55	69	73	73
	ACC new entitlement claims, per 100,000 popn.	230	99	185	159	169	148	147	162	99	148	215	134	134	182
<b>Alcohol*</b>	deaths or serious injuries in alcohol(+ve test) crashes, per 100,000	25	4	11	6	24	7	18	6	5	4	31	8	5	18
<b>Youth</b>	young driver fatal/serious injuries, per 100,000 15-24 year olds	148	33	90	85	78	99	160	66	45	82	123	42	50	157
<b>Speed</b>	deaths + serious injuries in speed related crashes, per 100,000 popn.	36	6	20	14	29	19	23	16	10	13	37	9	13	22
<b>High risk</b>	high risk drivers in fatal/serious crash, 3yr avg, per 100,000 popn.	12	4	8	8	10	8	6	8	4	4	9	4	4	7
<b>Roads and roadsides</b>	deaths + serious injuries in head-on crashes, per 100,000 popn.	24	3	21	9	10	10	8	15	4	4	15	6	8	10
	deaths + serious injuries, run off road crashes, per 100,000 popn.	39	3	29	15	51	21	27	22	6	17	40	12	16	27
	deaths + serious injuries, intersection crashes, per 100,000 popn.	9	12	26	11	16	13	18	20	13	15	12	24	24	26
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	9	9	11	8	18	8	10	7	13	16	9	9	15	10
<b>Motorcycles</b>	motorcyclists hospitalised >1d, per 100,000 popn.	23	15	20	17	20	19	12	14	10	20	18	13	14	13
<b>Light vehicles</b>	% of vehicles in fatal/serious crashes without current WoFs	28%	15%	15%	23%	24%	21%	27%	20%	15%	15%	28%	17%	17%	24%
<b>Fatigue</b>	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	16	3	14	8	2	7	9	5	4	8	9	5	4	4
<b>Heavy vehicles</b>	fatal/serious crashes involving HMVs, 3yr avg, per 100m SH HMV vkt	14	18	11	10	15	17	10	12	16	13	4	12	11	9
<b>Walk/cycle</b>	pedestrians and cyclists hospitalised >1d, per 100,000 popn.	8	10	9	11	18	13	8	7	11	7	0	11	12	10
<b>Older users</b>	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	56	36	58	51	53	40	69	62	42	76	93	52	50	58
<b>Restraints</b>	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	5.2	1.0	2.9	2.5	4.1	3.0	3.3	3.4	0.4	1.1	2.0	2.5	0.9	2.0

\*alcohol DSI rates only, not including drug