

1 JANUARY to 31 MARCH 2013

Q3 2012/13

Road safety outcomes

Supplement to
the NZTA
Quarterly report



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
- the trend in a representative headline measure over the past five years for each of the *Safer Journeys* areas of concern
- trends in the five high priority *Safer Journeys* areas of concern over the past five years in each NZTA region
- Regional and Police District comparisons against a representative headline outcome measure for each of the *Safer Journeys* areas of concern.

Outcome measures are provided for the most recently available quarter, to March 2013 in some cases but usually to December 2012. Some measures are only available on an annual basis.

Not all outcome measures are available at Regional or Police District level, and 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.

Key results for the quarter are:

- overall road crash and casualty trends remain steady, but with a low 66 fatalities in the March quarter the **road toll is back under 300** for the past 12 months
- a new **indicator for speed management** - fatal and serious injuries in open road crashes - reflects the fundamental contribution of speed to crash outcomes (p. 6)
- young driver fatalities have fallen sharply in the last 3 years, to well below the *Safer Journeys* target, and **none killed with excess alcohol** in the latest quarter
- casualty rates for **older road users** continue to increase, more so for passengers and pedestrians than for drivers, and regionally in Bay of Plenty and Hawkes Bay.

More information ...

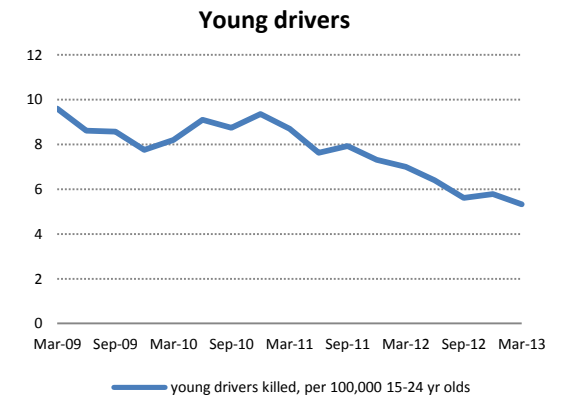
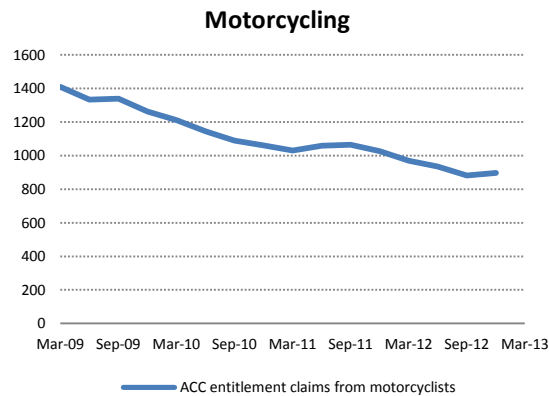
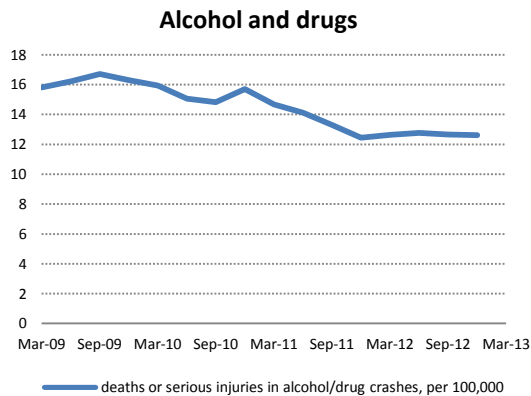
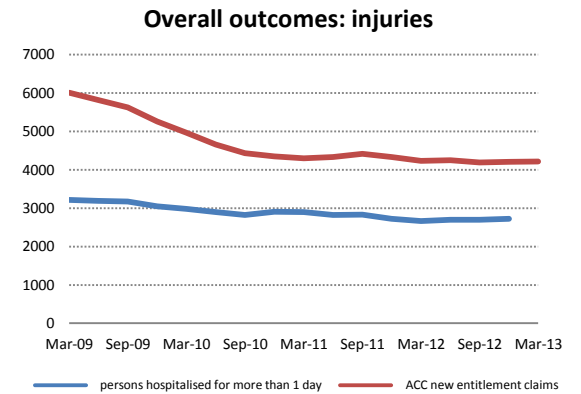
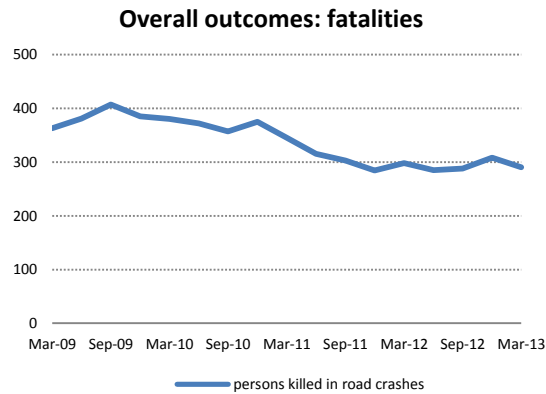
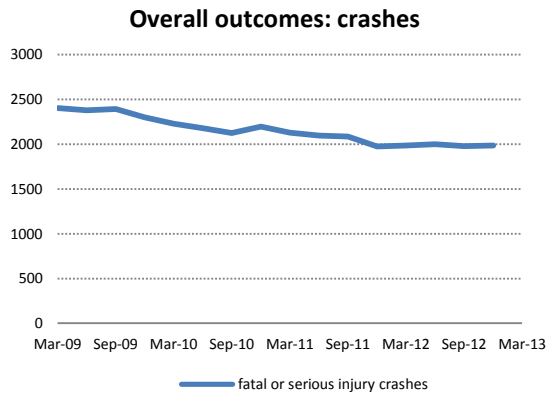
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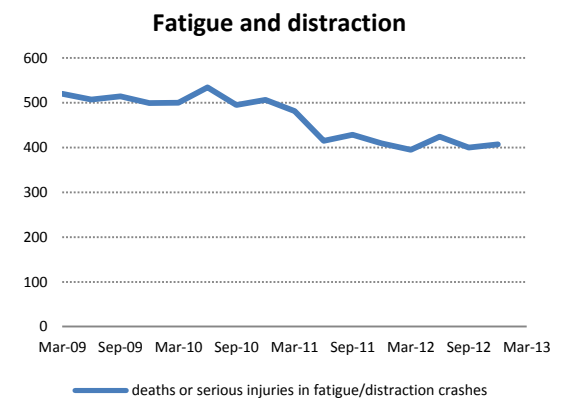
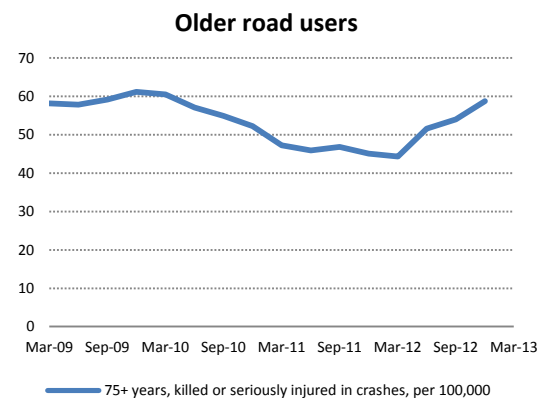
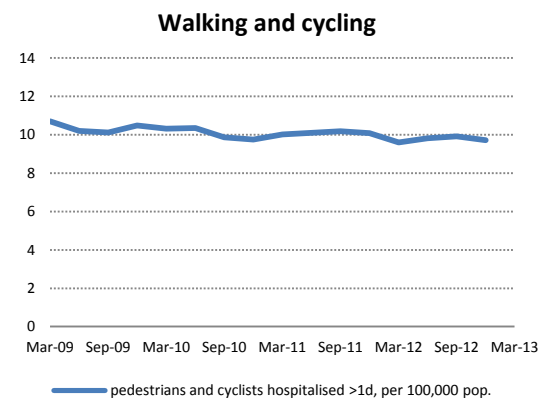
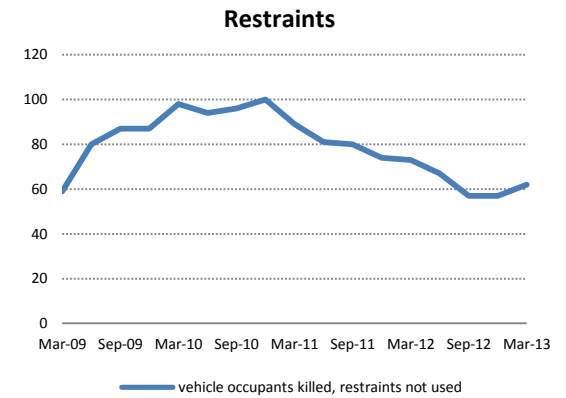
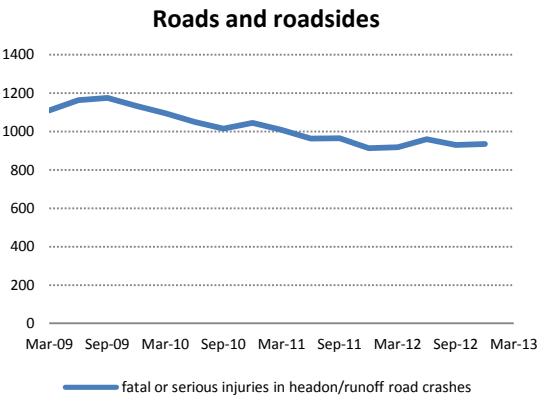
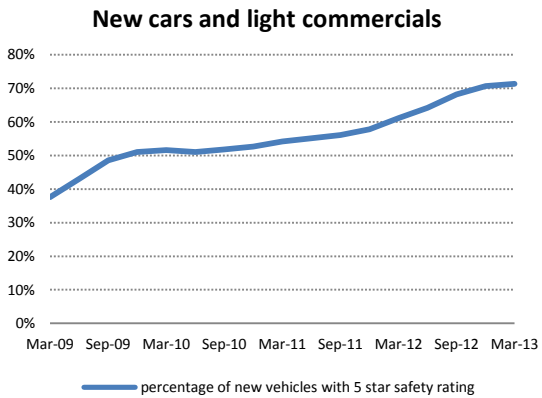
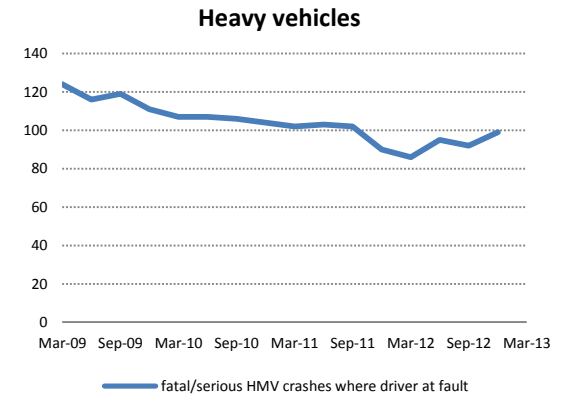
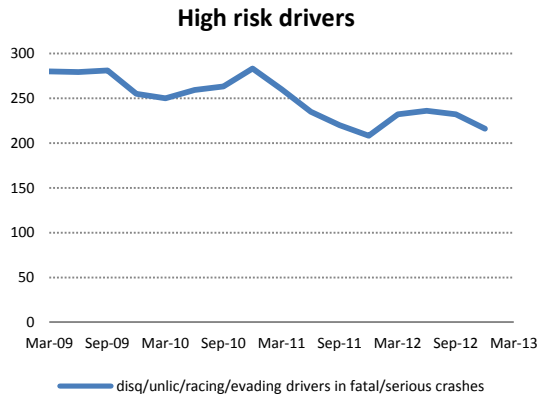
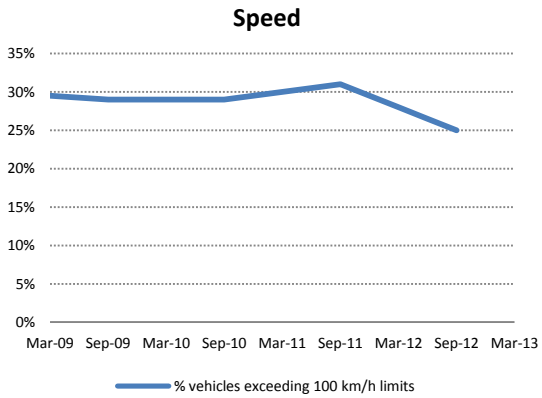
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This document is available on the NZTA's website at <http://www.nzta.govt.nz/resources/road-safety-outcomes/>.

ROAD SAFETY OUTCOME TRENDS 2009–2013 (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 NZ 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, and new vehicle registration figures.





NATIONAL ROAD SAFETY OUTCOMES IN DETAIL	LATEST FIGURES			LAST FIVE YEARS				
	latest quarter	latest 12 months	as at	2008	2009	2010	2011	2012
Overall outcomes								
fatal or serious injury crashes	495	1984	Dec 2012	2413	2298	2194	1975	1984
persons killed in road crashes	66	290	Mar 2013	365	384	375	284	308
persons killed or seriously injured	512	2363	Dec 2012	2878	2809	2663	2344	2363
persons killed or seriously injured, per 100,000 population, per year	55	53	Dec 2012	67	65	61	53	53
persons killed or seriously injured, per 100 million vehicle km travelled	5.9	57	Dec 2012	7.1	6.9	6.4	5.7	5.7
persons hospitalised for more than 1 day (>1d)	710	2725	Dec 2012	3240	3032	2908	2722	2725
ACC new entitlement claims	1025	4211	Mar 2013	6027	5252	4346	4331	4204
Alcohol and drugs								
fatal or serious injuries in alcohol/drug crashes, per 100,000 population, per year	14.6	12.6	Dec 2012	16.2	16.3	15.7	12.4	12.6
drivers killed with excess alcohol	31	63	Dec 2012	59	66	67	45	63
% think high probability being stopped at CBT checkpoint	-	52%	2012	51%	52%	56%	56%	52%
% think high probability being tested for drugs (NEW)	-	n/a	-	-	-	-	-	-
Young drivers								
young drivers killed, per 100,000 15-24 year olds, per year	4.4	5.3	Mar 2013	10.1	7.7	9.4	7.3	5.8
young drivers (15-24 years) hospitalised >1d, per 100,000 15-24 year olds, per year	61	48	Dec 2012	73	65	55	50	48
% youth believe will be stopped for non alcohol/speed traffic offences	-	42%	2012	35%	41%	44%	39%	42%
drivers on GDL at fault in fatal/serious crashes	58	217	Dec 2012	384	372	278	255	217
young drivers (15-24 years) killed with excess alcohol, per 100,000 15-24 yr olds, per year	0	0.3	Dec 2012	3.7	3.0	3.7	2.3	0.3
fatal and serious crashes involving 15-19 year old drivers	59	251	Dec 2012	450	442	379	282	251
Speed								
% vehicles exceeding 100 km/h limits	-	25%	2012	30%	29%	29%	31%	25%
% vehicles exceeding 50 km/h limits	-	53%	2012	64%	61%	58%	59%	53%
fatal or serious injuries in all open road crashes, 80-100 km/h roads	373	1353	Dec 2012	1546	1577	1438	1323	1353
fatal/serious speed-related crashes	98	376	Dec 2012	521	464	458	420	376
% disagree probability being detected speeding is small	-	55%	2012	54%	50%	52%	51%	55%
mean rural speed (km/h)	-	95.6	2012	96.6	96.3	96.2	96.5	95.6
mean urban speed (km/h)	-	51.3	2012	52.6	52.3	52.0	52.0	51.3
Motorcycling								
ACC entitlement claims from motorcyclists	259	910	Mar 2013	1412	1262	1060	1026	896
motorcycle and moped riders killed, per 100,000 population, per year	0.9	1.0	Mar 2013	1.2	1.1	1.1	0.7	1.0
% of motorcycles in crashes with non-current WoFs	25%	25%	Dec 2012	28%	26%	27%	26%	25%
motorcyclists hospitalised >1d, per 100,000 population, per year ⁽¹⁾	15.4	13.3	Dec 2012	18.0	15.6	15.2	13.7	13.3
Roads and roadsides								
fatal or serious injuries in head-on* and run off road crashes, 80-100 km/h roads	256	935	Dec 2012	1135	1133	1045	912	935
fatal or serious injuries in head-on (*not overtaking) crashes, 80-100 km/h roads	86	298	Dec 2012	340	361	296	304	298
fatal or serious injuries in run-off road crashes, 80-100 km/h roads	170	637	Dec 2012	795	772	749	608	637
fatal or serious injuries in intersection crashes	172	756	Dec 2012	887	827	782	699	756
fatal or serious injuries in pedestrian/cyclist crashes	88	430	Dec 2012	500	418	437	422	430

NATIONAL ROAD SAFETY OUTCOMES IN DETAIL	LATEST FIGURES			LAST FIVE YEARS				
	latest quarter	latest 12 months	as at	2008	2009	2010	2011	2012
High risk drivers								
fatal or serious injury crashes with high risk driver⁽²⁾	52	216	Dec 2012	284	255	283	208	216
% disqualified drivers detected driving	-	12%	2009	13%	12%			
% disqualified drivers detected driving (3+ times)	-	6%	2009	7%	6%			
disqualified or unlicensed drivers involved in fatal/serious crash	42	181	Dec 2012	241	203	238	180	181
Light vehicles								
% of new vehicles with 5-star safety rating	73%	71%	Mar 2013	32%	51%	53%	58%	71%
% of vehicles in fatal/serious crashes with non-current WOFs ⁽¹⁾	14%	12%	Dec 2012	14%	12%	13%	12%	12%
average (median) age of light vehicle fleet (years)	-	13.4	Dec 2012	12.2	12.6	12.9	13.2	13.4
Fatigue and distraction								
fatal or serious injuries in fatigue/distraction crashes	120	407	Dec 2012	520	499	506	409	407
fatal/serious crashes with contributing fatigue/distraction	90	327	Dec 2012	430	404	402	340	327
fatal/serious crashes meeting ATSB fatigue definition ⁽³⁾	30	125	Dec 2012	127	160	134	105	125
Heavy vehicles								
fatal/serious injury HMV crashes where driver at fault	24	99	Dec 2012	124	111	104	90	99
fatal/serious crashes involving HMVs	52	214	Dec 2012	277	226	212	209	214
% of fatal/serious HMV crashes where HMV driver at fault	46%	46%	Dec 2012	45%	49%	49%	43%	46%
% of HMV drivers exceeding 90 km/h speed limit	-	39%	2012	46%	43%	45%	44%	39%
% of HMV drivers exceeding 50 km/h speed limit	-	34%	2012	55%	48%	44%	47%	34%
Walking and cycling								
pedestrians and cyclists hospitalised >1d, per 100,000 population, per year	8.5	9.7	Dec 2012	11.4	10.5	9.7	10.1	9.7
pedestrians and cyclists killed, per 100,000 population, per year	1.0	0.9	Mar 2013	1.1	0.9	1.0	0.9	0.9
fatal or serious injuries to school age (5-17) cyclists and peds	13	77	Dec 2012	99	101	75	91	77
% cyclists wearing helmets	-	92%	2012	92%	92%	93%	93%	92%
Older road users								
persons 75+ yrs killed or seriously injured in crashes, per 100,000 75+ yr olds, per year	64	59	Dec 2012	58	61	52	45	59
persons 75+ years killed in road crashes	5	41	Mar 2013	30	36	34	32	41
drivers 75+ years, killed or seriously injured, per 100,000 75+ year olds, per year	31	31	Dec 2012	32	38	29	28	31
persons 75+ years, ACC claims, per 100,000 75+ year olds, per year	70	69	Dec 2012	99	96	75	67	69
Restraints								
vehicle occupant deaths where restraints not worn	20	62	Mar 2013	69	87	100	74	57
% of children (5-9 years) in booster seats	-	17%	2011	-	-	-	17%	-
% front seat adult vehicle occupants restrained	-	96%	2012	96%	95%	96%	96%	96%
% child (0-4 years) vehicle occupants restrained	-	92%	2012	90%	91%	93%	n/s	92%
% drivers think highly likely to be stopped for non-compliance	-	40%	2012	40%	39%	41%	40%	40%

(1) National headline measure not available at regional/district level, this measure used instead for local government region and police district charts

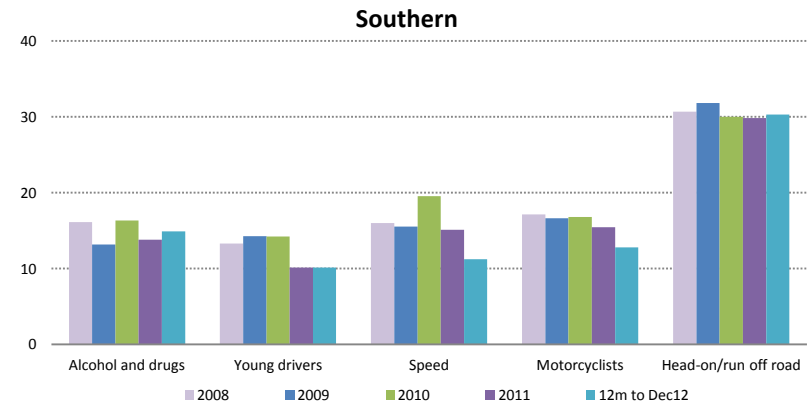
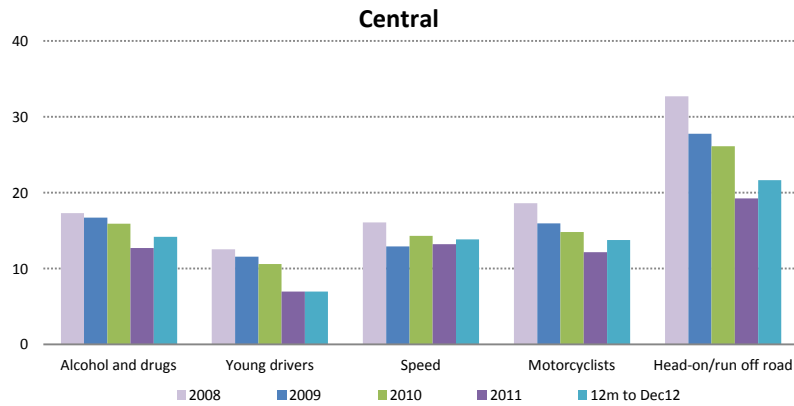
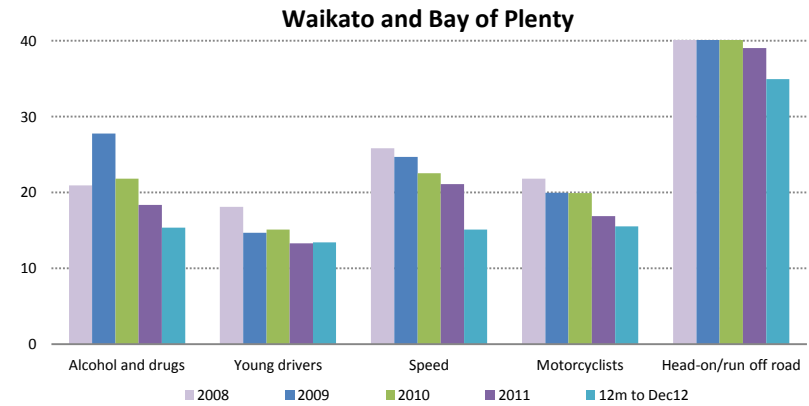
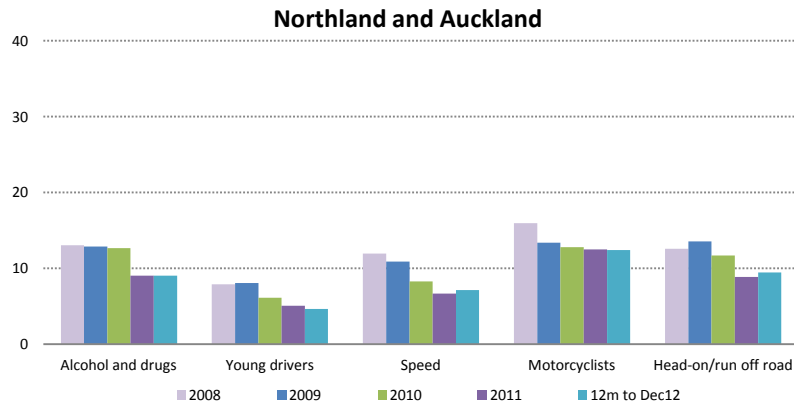
(2) High risk driver = disqualified, unlicensed, illegal street racing, evading enforcement

(3) Counts open road crashes with no alcohol, unlicensed drivers, or pedestrians, either head-on on straight road, or single vehicle between 00:00-05:59h or 14:00-15:59h

ROAD SAFETY OUTCOMES BY NZTA REGION

The following charts and tables show trends over the past 5 years in each of the four NZTA regions for the high priority road safety concerns in *Safer Journeys*. The final bar in each set shows the value for the 12 months to the end of the latest available quarter, to allow full-year comparisons with the preceding annual values.

Fatal and serious injuries* in crashes, per 100,000 population

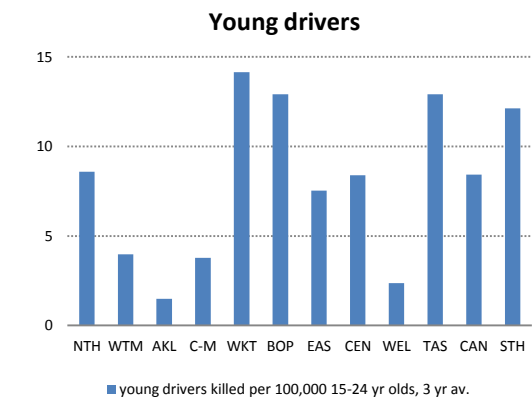
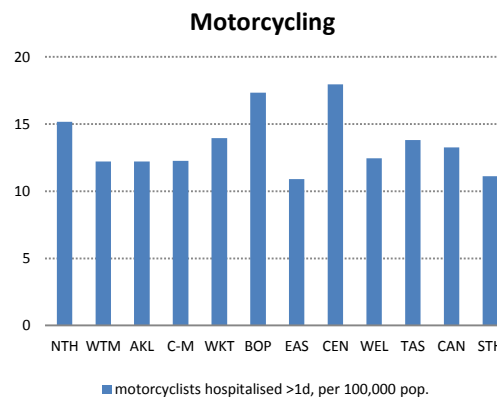
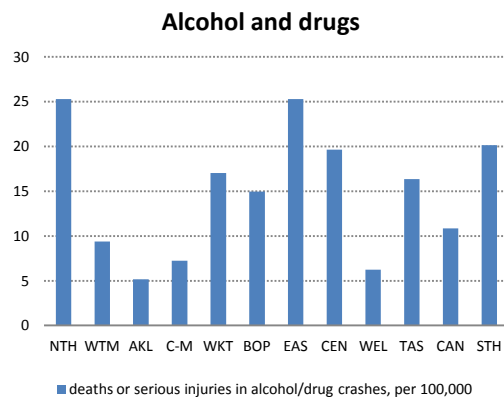
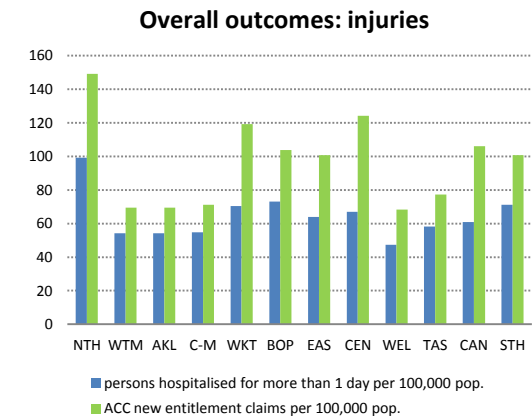
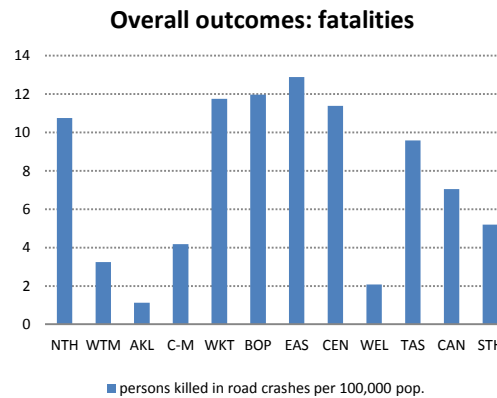
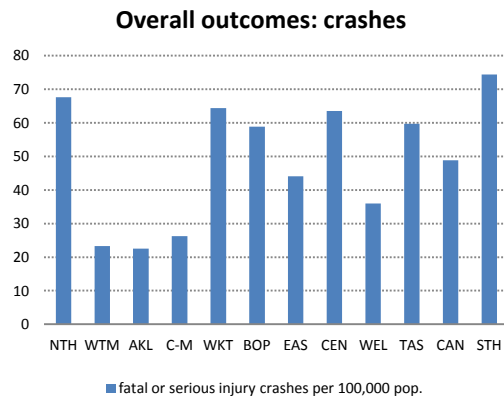


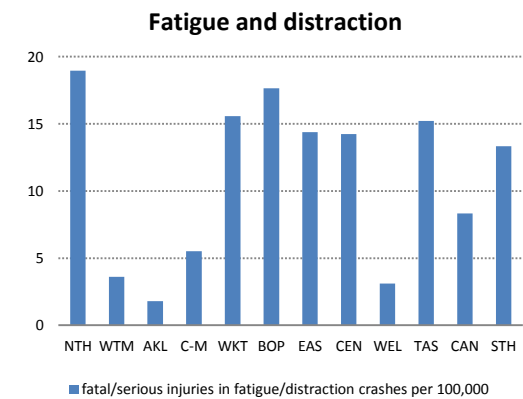
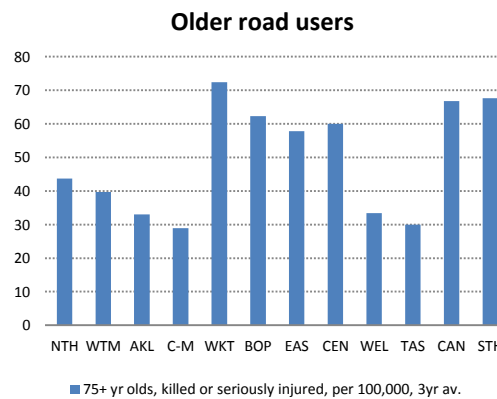
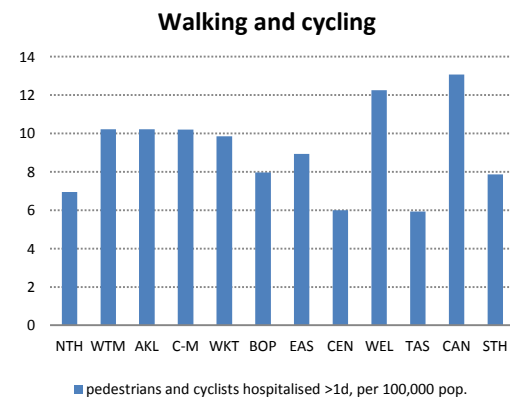
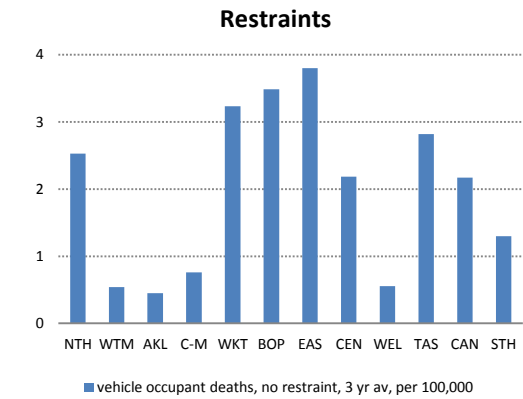
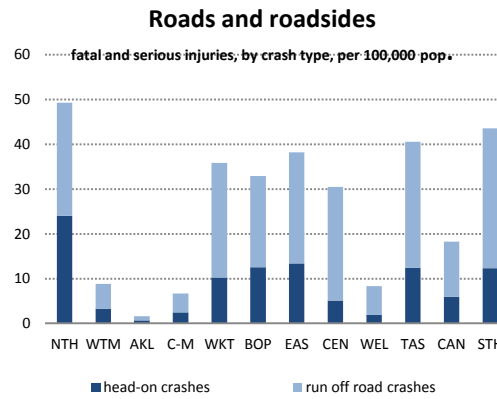
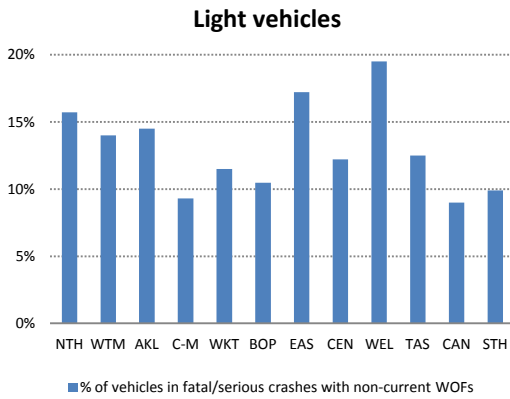
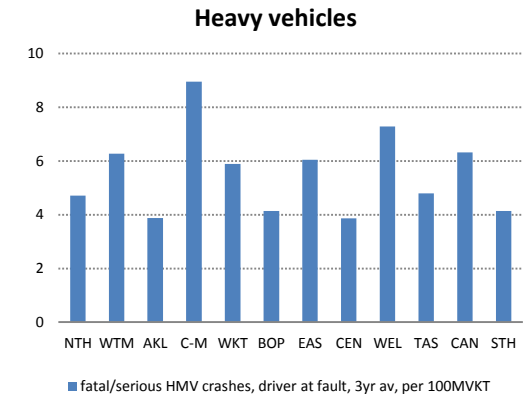
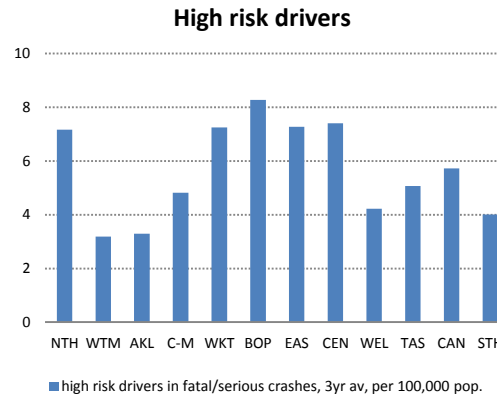
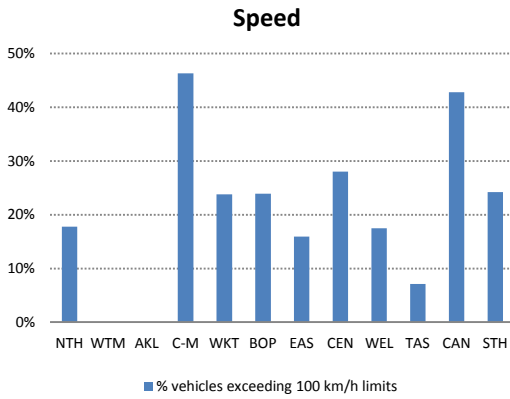
* Motorcycle casualties = hospitalisations for more than 1 day; head-on and run-off road crashes are open road crashes (80-100 km/h).

NZTA REGION OUTCOMES	LAST FIVE YEARS					
	2008	2009	2010	2011	latest 12 months, to Dec 2012	
Overall outcomes						
fatal or serious injuries in all crashes, per 100,000 population	NZ =	67	65	61	53	53
Northland and Auckland		45	44	39	33	32
Waikato and Bay of Plenty		92	90	80	86	75
Central region		75	64	63	50	55
Southern region		86	87	84	69	72
Alcohol and drugs						
fatal or serious injuries in alcohol/drug crashes, per 100,000 population	NZ =	16	16	16	13	13
Northland and Auckland		13	13	13	9	9
Waikato and Bay of Plenty		21	28	22	18	15
Central region		17	17	16	13	14
Southern region		16	13	16	14	15
Young drivers						
young drivers killed or seriously injured, per 100,000 total population	NZ =	13	11	10	8	8
Northland and Auckland		8	8	6	5	5
Waikato and Bay of Plenty		18	15	15	13	13
Central region		13	12	11	7	7
Southern region		13	14	14	10	10
young drivers killed or seriously injured, per 100,000 15-24 year olds	NZ =	87	78	71	54	58
Northland and Auckland		52	54	41	34	32
Waikato and Bay of Plenty		132	106	109	96	99
Central region		89	82	75	50	47
Southern region		90	96	96	68	89
Speed						
fatal or serious injuries in speed-related crashes, per 100,000 population	NZ =	16	15	14	12	11
Northland and Auckland		12	11	8	7	7
Waikato and Bay of Plenty		26	25	23	21	15
Central region		16	13	14	13	14
Southern region		16	16	20	15	11
Motorcycling						
motorcyclists hospitalised >1d from road crashes, per 100,000 population	NZ =	18	16	15	14	13
Northland and Auckland		16	13	13	13	12
Waikato and Bay of Plenty		22	20	20	17	16
Central region		19	16	15	12	14
Southern region		17	17	17	15	13
Roads and roadsides						
fatal or serious injuries in head-on* and run off road crashes, per 100,000 population	NZ =	26	26	24	21	21
Northland and Auckland		13	14	12	9	9
Waikato and Bay of Plenty		43	45	41	39	35
Central region		33	28	26	19	22
Southern region		31	32	30	30	30

ROAD SAFETY OUTCOMES BY POLICE DISTRICT

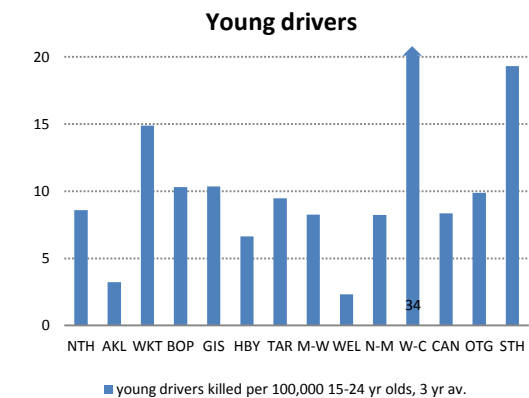
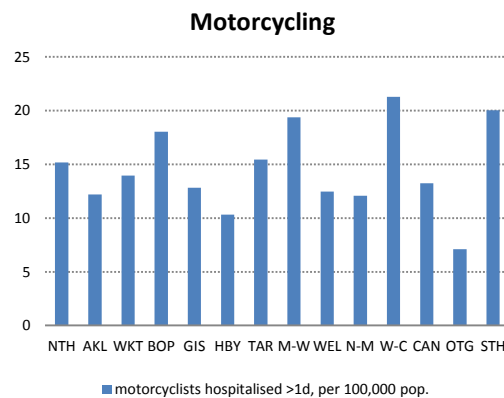
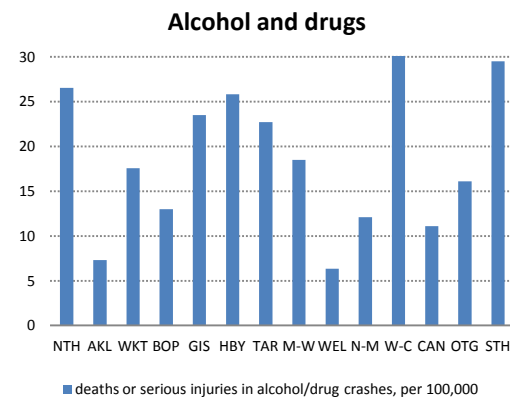
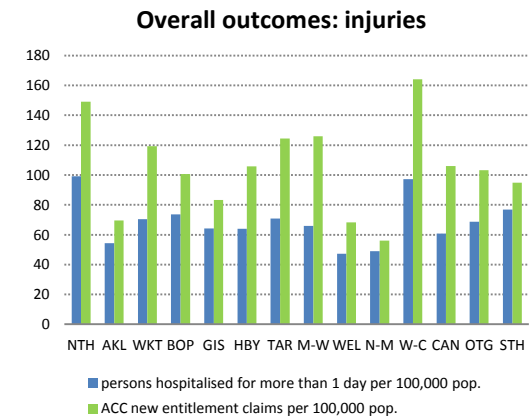
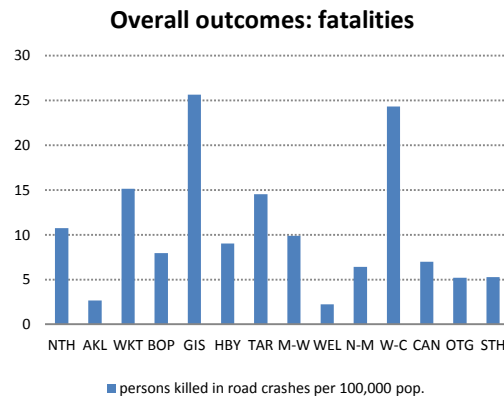
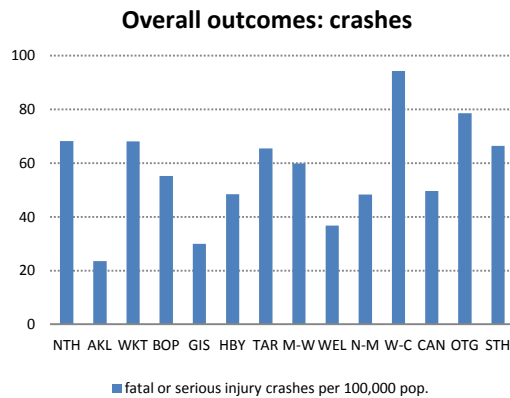
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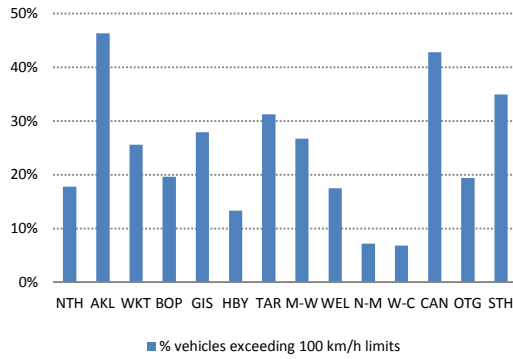


ROAD SAFETY OUTCOMES BY LOCAL GOVERNMENT REGION

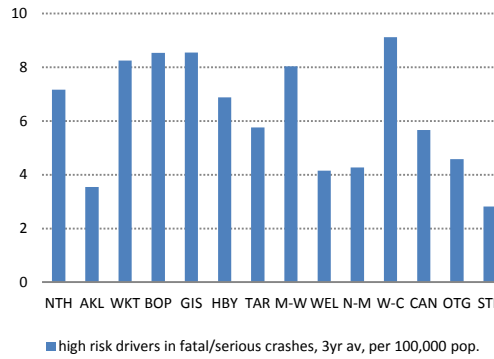
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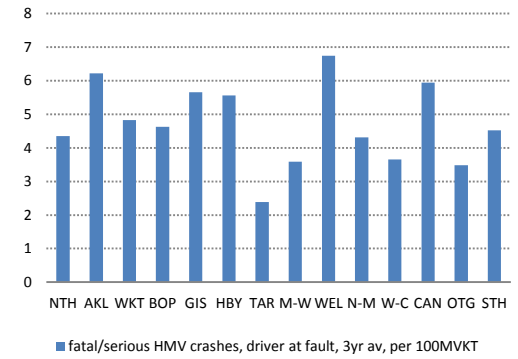
Speed



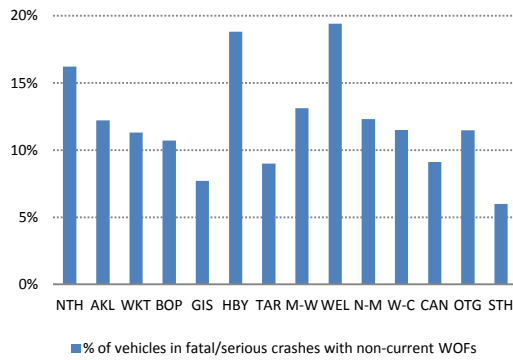
High risk drivers



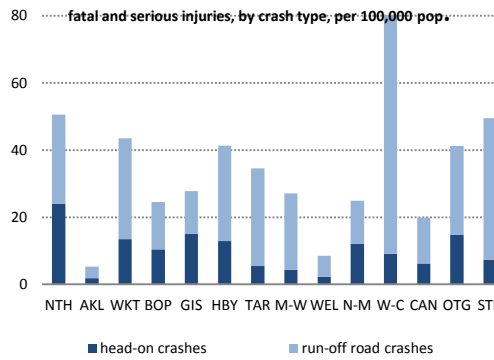
Heavy vehicles



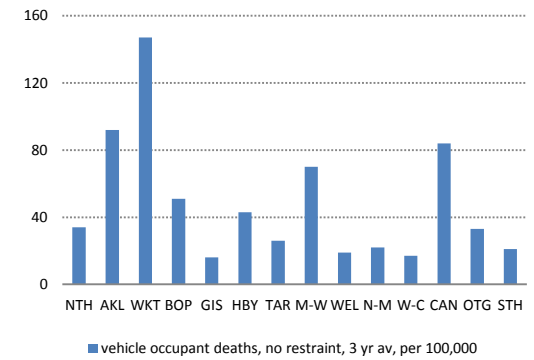
Light vehicles



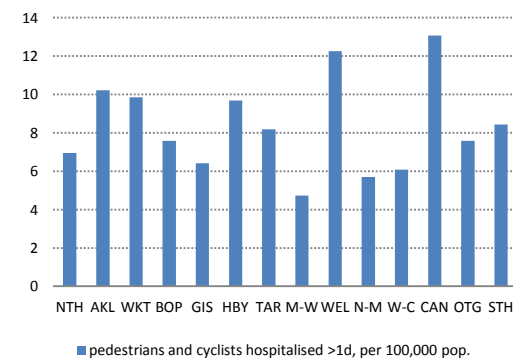
Roads and roadsides



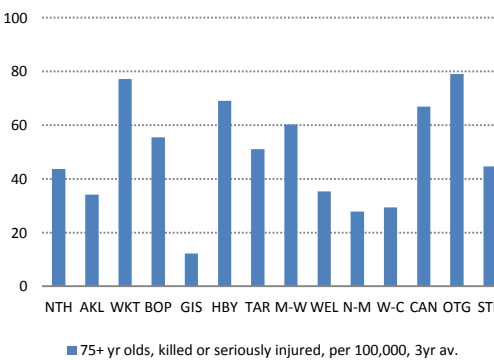
Restraints



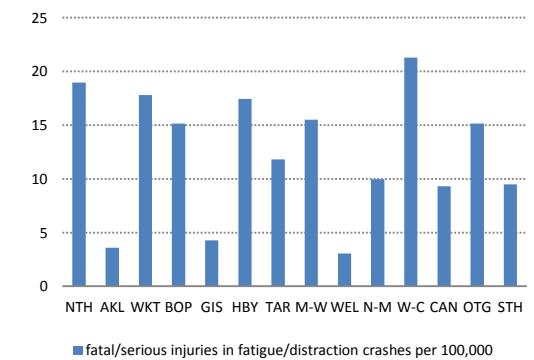
Walking and cycling



Older road users



Fatigue and distraction



POLICE DISTRICT ROAD SAFETY OUTCOMES		NTH	WTM	AKL	C-M	Total Auck	WKT	BOP	EAS	CEN	WEL	TAS	CAN	STH	NZ
Overall	fatal or serious injury crashes per 100,000 population	68	23	22	26	24	64	59	44	63	36	60	49	74	45
	persons killed in road crashes, per 100,000 population	11	3	1	4	3	12	12	13	11	2	10	7	5	7
	persons hospitalised more than 1 day (>1d) , per 100000 popn.	99	54	54	55	163	70	73	64	67	47	58	61	71	64
	ACC new entitlement claims, per 100000 population	149	70	70	71	12	119	104	101	124	68	77	106	101	95
Alcohol	deaths or serious injuries in alc/drug crashes, per 100,000 popn.	25	9	5	7	7	17	15	25	20	6	16	11	20	13
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	9	4	1	4	3	14	13	8	8	2	13	8	12	7
Speed	% vehicles exceeding 100 km/h limits	18%			46%	46%	24%	24%	16%	28%	18%	7%	43%	24%	25%
High risk	high risk drivers in fatal/serious crash, 3-year average per 100,000 popn.	7	3	3	5	4	7	8	7	7	4	5	6	4	5
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	24	3	1	2	2	10	13	13	5	2	12	6	12	7
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	25	6	1	4	4	26	20	25	25	6	28	12	31	14
	deaths + serious injuries, intersection crashes, per 100,000 popn.	12	9	11	10	10	24	17	13	24	15	14	23	31	17
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	9	5	7	6	6	10	14	7	10	15	8	14	11	10
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	12	12	12	14	17	11	18	12	14	13	11	13
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFs	16%	14%	15%	9%	12%	12%	10%	17%	12%	20%	13%	9%	10%	12%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	19	4	2	6	4	16	18	14	14	3	15	8	13	9
Heavy vehicles	fatal/serious hmv at fault crashes, 3yr avg, per 100m VKT	5	6	4	9	7	6	4	6	4	7	5	6	4	5
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	7	10	10	10	10	10	8	9	6	12	6	13	8	10
Older users	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	44	40	33	29	34	72	62	58	60	33	30	67	68	52
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	2.5	0.5	0.4	0.8	0.6	3.2	3.5	3.8	2.2	0.6	2.8	2.2	1.3	1.7

REGIONAL ROAD SAFETY OUTCOMES		NTH	AKL	WKT	BOP	GIS	HBV	TAR	M-W	WEL	N-M	W-C	CAN	OTG	STH
Overall	fatal or serious injury crashes per 100,000 population	68	24	68	55	30	48	65	60	37	48	94	50	79	66
	persons killed in road crashes, per 100,000 population	11	3	15	8	26	9	15	10	2	6	24	7	5	5
	persons hospitalised more than 1 day (>1d) , per 100,000 popn.	99	54	70	74	64	64	71	66	47	49	97	61	69	77
	ACC new entitlement claims, per 100,000 population	149	70	119	101	83	106	124	126	68	56	164	106	103	95
Alcohol	deaths or serious injuries in alcohol/drug crashes, per 100,000 popn.	27	7	18	13	24	26	23	18	6	12	30	11	16	30
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	9	3	15	10	10	7	9	8	2	8	34	8	10	19
Speed	% vehicles exceeding 100 km/h limits	18%	46%	26%	20%	28%	13%	31%	27%	18%	7%	7%	43%	19%	35%
High risk	high risk drivers in fatal/serious crash, 3yr avg, per 100,000 popn.	7	4	8	9	9	7	6	8	4	4	9	6	5	3
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	24	2	13	10	15	13	5	4	2	12	9	6	15	7
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	27	3	30	14	13	28	29	23	6	13	73	14	27	42
	deaths + serious injuries, intersection crashes, per 100,000 popn.	16	10	23	16	15	13	24	25	15	16	3	24	30	33
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	9	6	10	14	6	7	14	9	14	9	9	14	12	8
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	14	18	13	10	15	19	12	12	21	13	7	20
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFs	16%	12%	11%	11%	8%	19%	9%	13%	19%	12%	12%	9%	11%	6%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	19	4	18	15	4	17	12	15	3	10	21	9	15	9
Heavy vehicles	fatal/serious HMV at fault crashes, 3yr avg, per 100m VKT	4	6	5	5	6	6	2	4	7	4	4	6	3	5
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	7	10	10	8	6	10	8	5	12	6	6	13	8	8
Older users	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	44	34	77	55	12	69	51	60	35	28	29	67	79	45
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	2.5	0.5	3.8	2.8	2.8	4.1	1.2	2.7	0.5	2.4	5.1	2.1	1.1	1.8