

Q2 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 December 2012 in some cases but usually to September 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 are steady, but a high 98 fatalities in the December quarter have led to an increased **road toll of 308** for 2012
- mean **speeds were significantly lower** in the 2012 survey, but 25% of cars and 39% of heavy vehicles continue to exceed the open road speed limits
- fatal or serious injuries from motorcycle, young driver, fatigue, and run-off-road crashes remain a stubbornly **high risk in the West Coast** region
- casualty rates for **older road users** have increased in the last two quarters, reflecting growing older casualty trends in Auckland, Bay of Plenty and Hawkes Bay.

More information ...

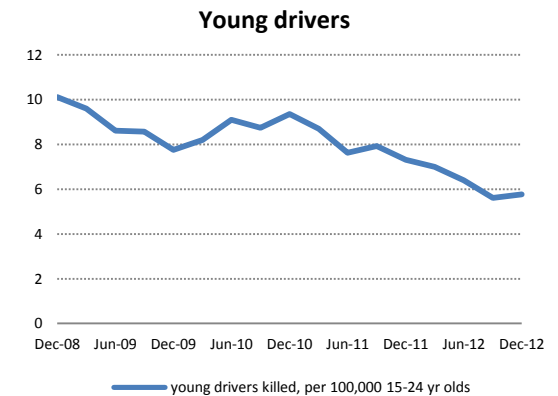
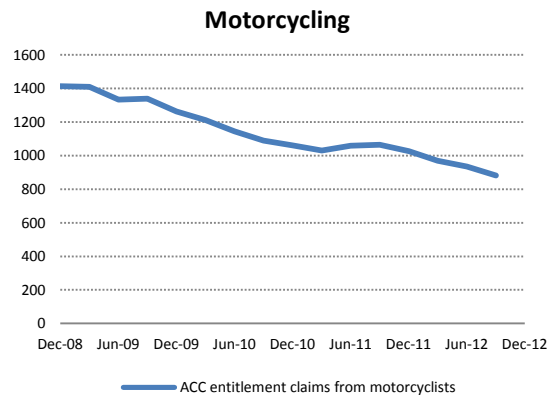
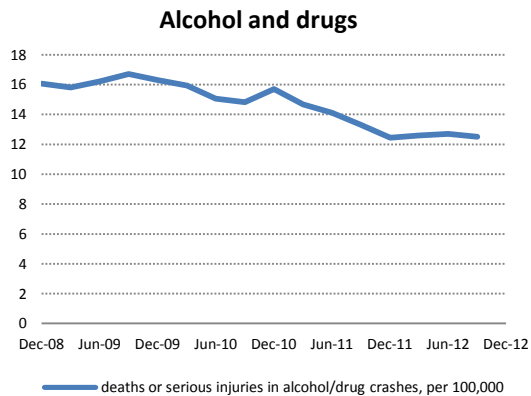
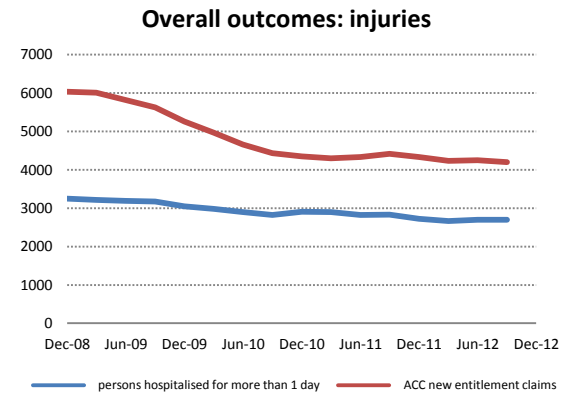
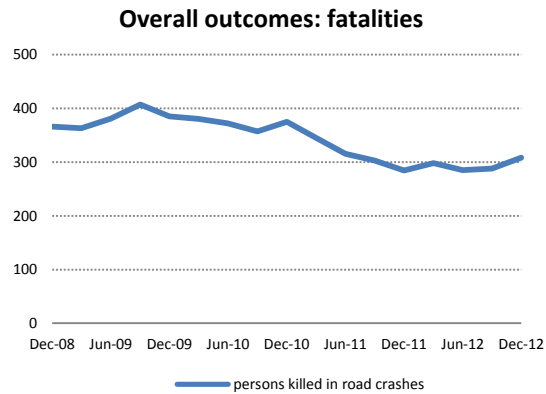
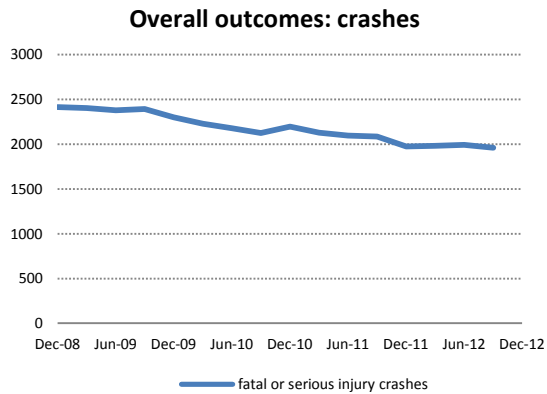
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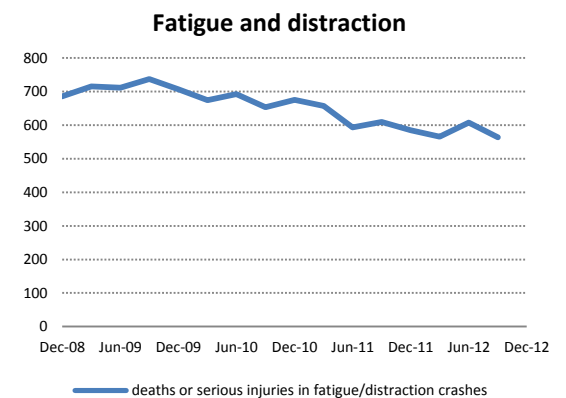
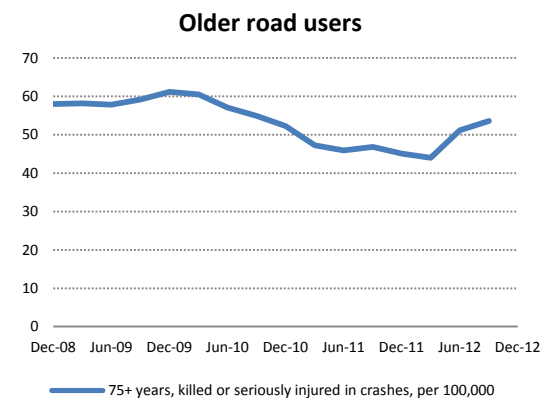
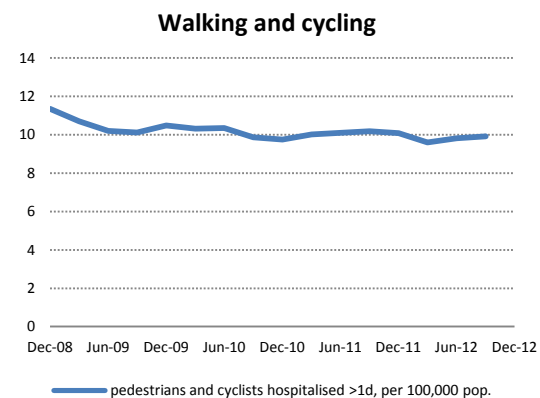
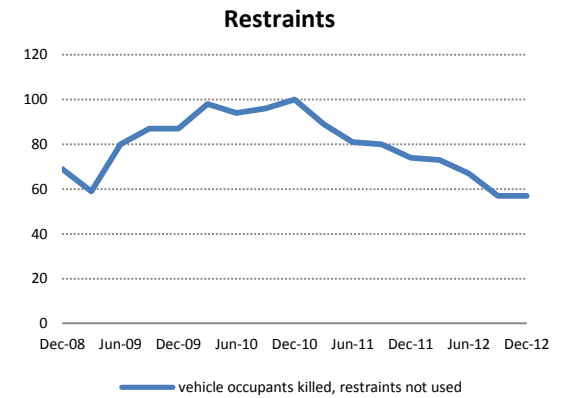
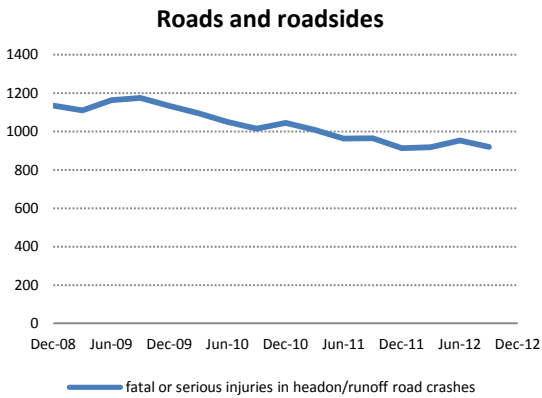
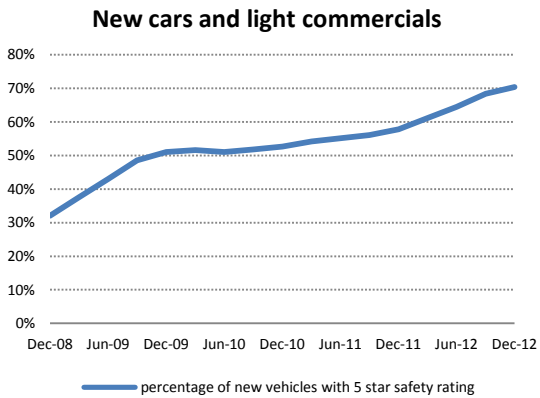
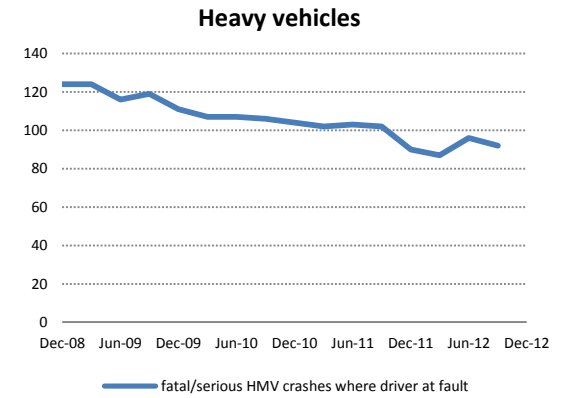
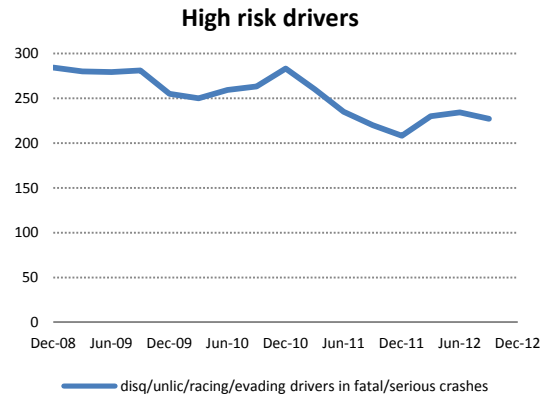
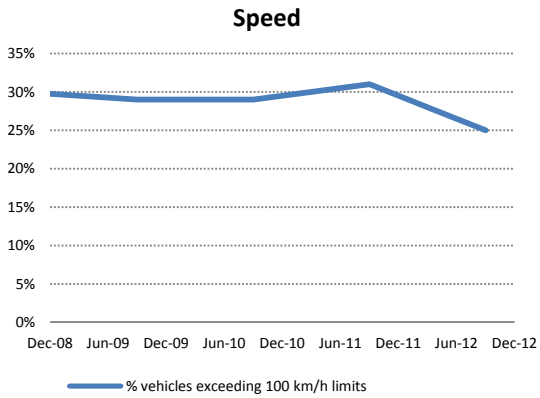
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This document is available on the NZTA's website at <http://www.nzta.govt.nz/resources/road-safety-outcomes/>.

ROAD SAFETY OUTCOME TRENDS 2008–2012 (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	434	1960	Sep 2012	2413	2298	2194	1975	
persons killed in road crashes	98	308	Dec 2012	365	384	375	284	308
persons killed or seriously injured	518	2317	Sep 2012	2878	2809	2663	2324	
persons killed or seriously injured, per 100,000 population, per year	47	52	Sep 2012	67	65	61	53	
persons killed or seriously injured, per 100 million vehicle km travelled	5.0	5.6	Sep 2012	7.1	6.9	6.4	5.6	
persons hospitalised for more than 1 day (>1d)	620	2695	Sep 2012	3240	3032	2908	2722	
ACC new entitlement claims	1053	4193	Sep 2012	6027	5252	4347	4330	
Alcohol and drugs								
fatal or serious injuries in alcohol/drug crashes, per 100,000 population, per year	9.7	12.5	Sep 2012	16.2	16.3	15.7	12.5	
drivers killed with excess alcohol	18	51	Sep 2012	59	66	67	45	
% 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	6.9	5.8	Dec 2012	10.1	7.7	9.3	7.3	5.8
young drivers (15-24 years) hospitalised >1d, per 100,000 15-24 year olds, per year	38	44	Sep 2012	73	65	55	47	
% 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	63	212	Sep 2012	384	372	278	255	
young drivers (15-24 years) killed with excess alcohol, per 100,000 15-24 yr olds, per year	0.6	0.8	Sep 2012	3.7	3.0	3.7	2.3	
fatal and serious crashes involving 15-19 year old drivers	45	248	Sep 2012	450	442	379	282	
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/serious speed-related crashes	86	377	Sep 2012	521	464	458	420	
% 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	178	881	Sep 2012	1412	1262	1060	1025	
motorcycle and moped riders killed, per 100,000 population, per year	1.8	1.0	Dec 2012	1.2	1.1	1.1	0.7	1.0
% of motorcycles in crashes with non-current WoFs	24%	27%	Sep 2012	28%	26%	27%	26%	
motorcyclists hospitalised >1d, per 100,000 population, per year ⁽¹⁾	9.5	13.1	Sep 2012	18.0	15.6	15.2	13.7	
Roads and roadsides								
fatal or serious injuries in head-on* and run off road crashes	171	920	Sep 2012	1135	1133	1045	912	
fatal or serious injuries in head-on (*not overtaking) crashes, 80-100 km/h roads	41	284	Sep 2012	340	361	296	304	
fatal or serious injuries in run-off road crashes, 80-100 km/h roads	130	636	Sep 2012	795	772	749	608	
fatal or serious injuries in intersection crashes	201	750	Sep 2012	887	827	784	695	
fatal or serious injuries in pedestrian/cyclist crashes	91	428	Sep 2012	500	418	437	417	

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⁾	46	227	Sep 2012	284	255	283	208	
% 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	44	198	Sep 2012	241	203	238	180	
Light vehicles								
% of new vehicles with 5-star safety rating	74%	70%	Nov 2012	32%	51%	53%	58%	
% of vehicles in fatal/serious crashes with non-current WOFs ⁽¹⁾	12%	12%	Sep 2012	14%	12%	13%	12%	
average (median) age of light vehicle fleet (years)	-	13.2	Dec 2011	12.2	12.6	12.9	13.2	
Fatigue and distraction								
fatal or serious injuries in fatigue/distraction crashes	103	563	Sep 2012	685	706	675	584	
fatal/serious crashes with contributing fatigue/distraction	87	475	Sep 2012	563	567	551	488	
fatal/serious crashes meeting ATSB fatigue definition ⁽³⁾	28	124	Sep 2012	127	160	134	105	
Heavy vehicles								
fatal/serious injury HMV crashes where driver at fault	16	92	Sep 2012	124	111	104	90	
fatal/serious crashes involving HMVs	38	206	Sep 2012	277	226	212	209	
% of fatal/serious HMV crashes where HMV driver at fault	42%	45%	Sep 2012	45%	49%	49%	43%	
% 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	10.1	9.9	Sep 2012	11.4	10.5	9.7	10.1	
pedestrians and cyclists killed, per 100,000 population, per year	0.9	0.9	Dec 2012	1.1	0.9	1.0	0.9	0.9
fatal or serious injuries to school age (5-17) cyclists and peds	14	81	Sep 2012	99	101	75	91	
% 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	55	54	Sep 2012	58	61	52	45	
persons 75+ years killed in road crashes	11	41	Dec 2012	30	36	34	32	41
drivers 75+ years, killed or seriously injured, per 100,000 75+ year olds, per year	37	30	Sep 2012	32	38	29	29	
persons 75+ years, ACC claims, per 100,000 75+ year olds, per year	73	67	Sep 2012	99	96	75	68	
Restraints								
vehicle occupant deaths where restraints not worn	19	57	Dec 2012	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

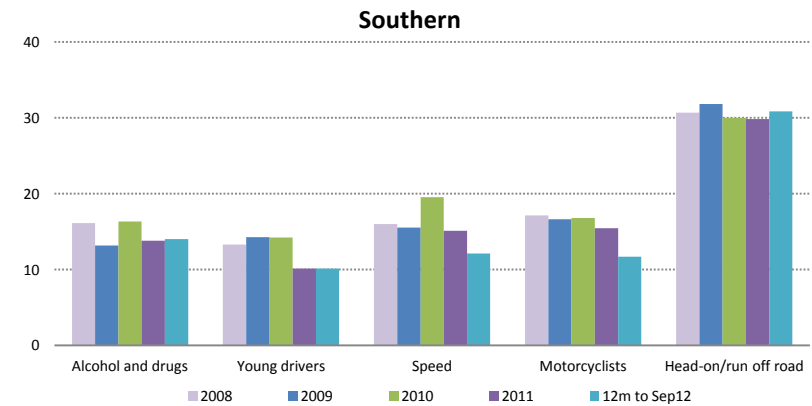
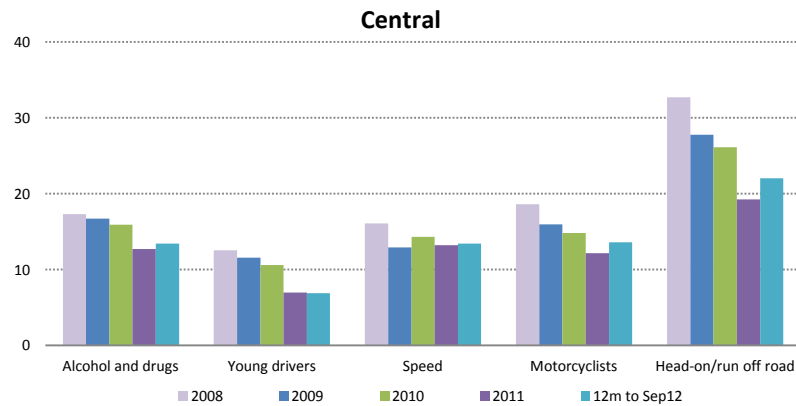
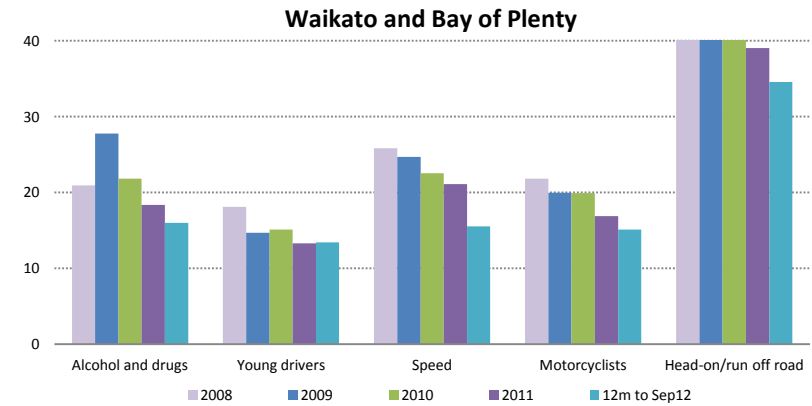
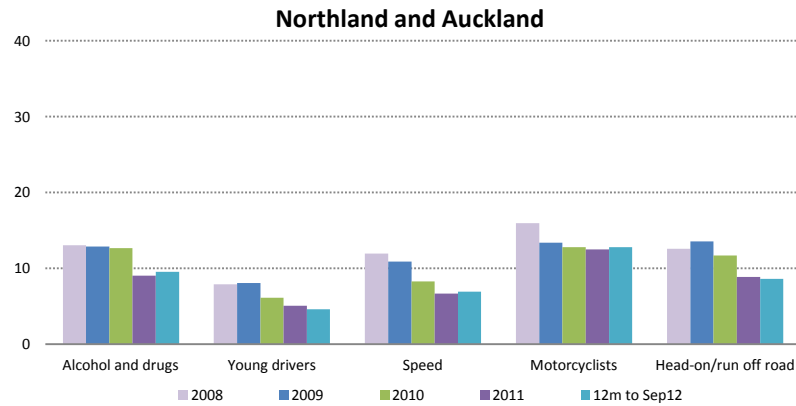
(2) High risk driver = disqualified, unlicensed, illegal street racing, evading enforcement

(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

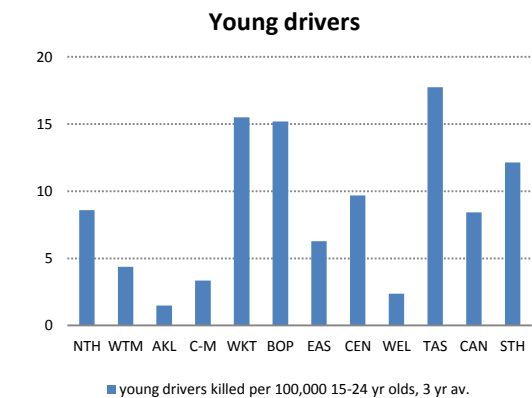
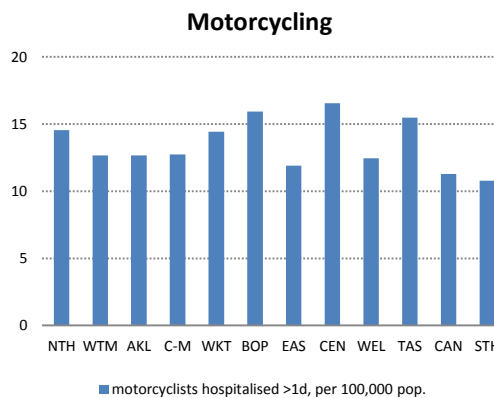
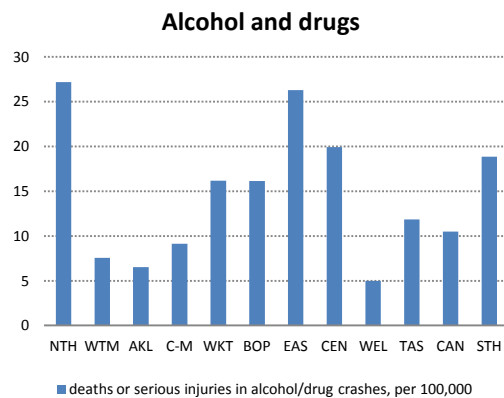
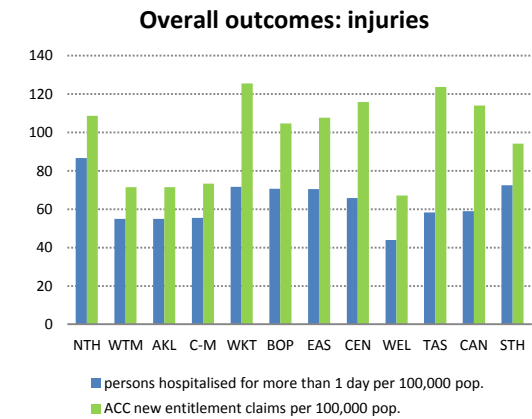
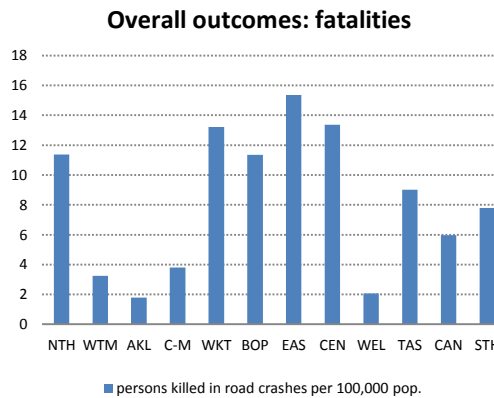
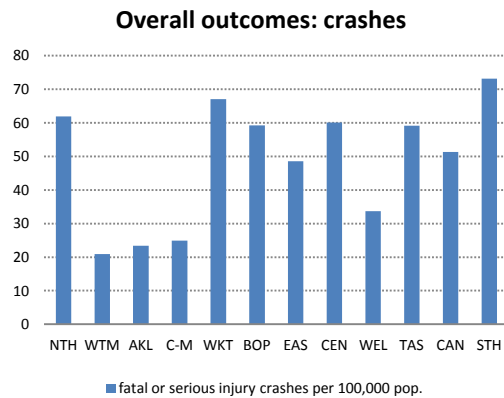


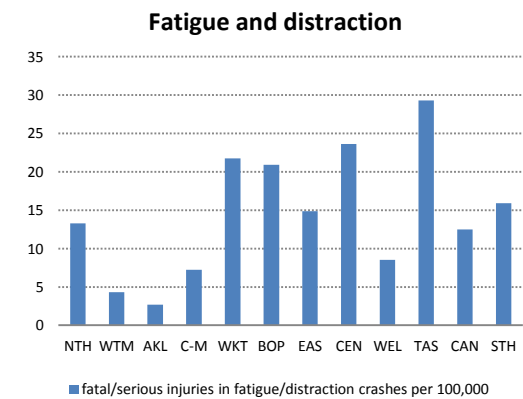
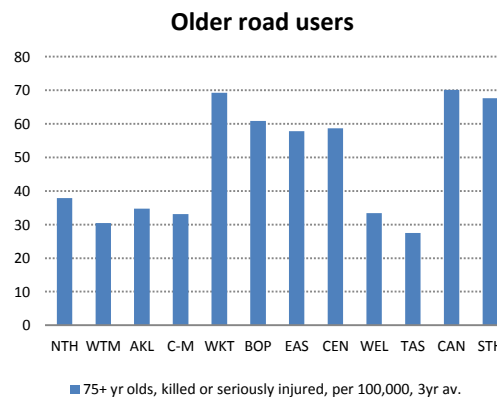
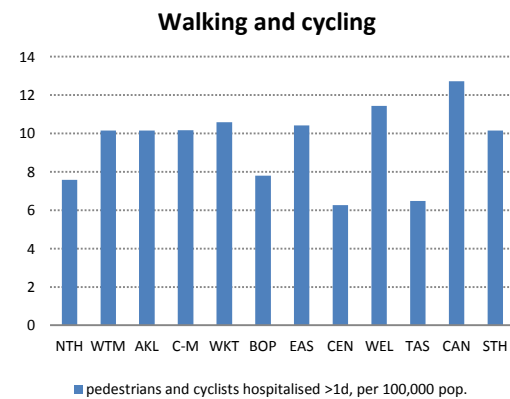
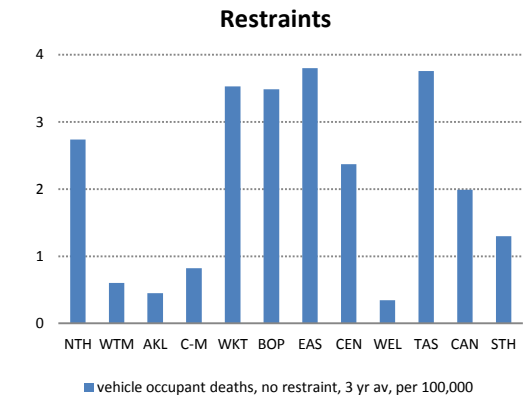
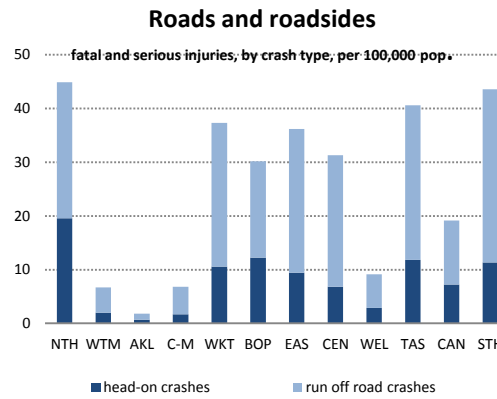
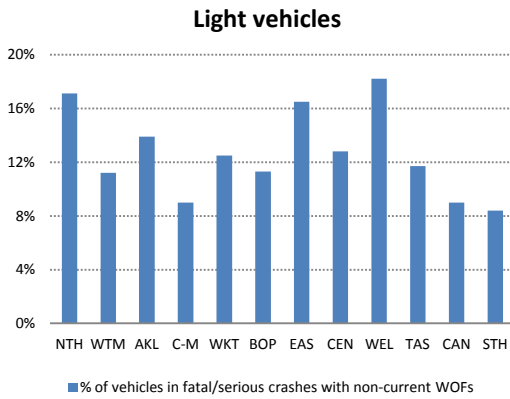
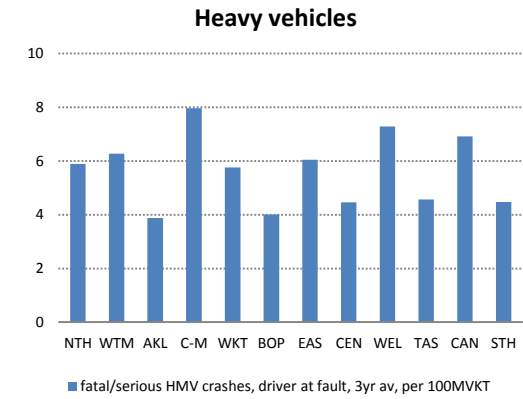
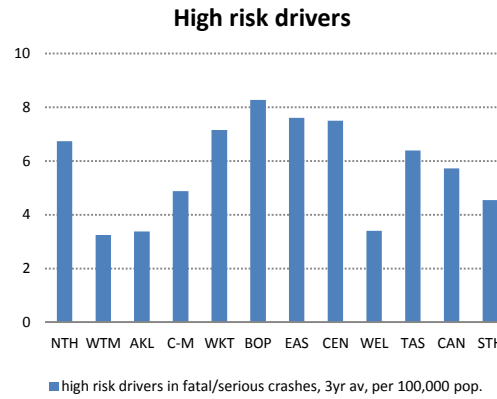
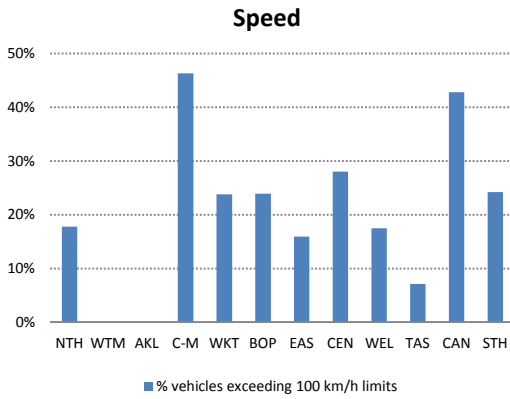
* Motorcycle casualties = hospitalisations for more than 1 day; head-on and run-off road crashes are open road crashes (80-100 km/h).

NZTA REGION OUTCOMES	LAST FIVE YEARS					
	2008	2009	2010	2011	latest 12 months, to Sep 2012	
Overall outcomes						
fatal or serious injuries in all crashes, per 100,000 population	NZ =	67	65	61	53	52
Northland and Auckland		45	44	39	33	30
Waikato and Bay of Plenty		92	90	80	86	76
Central region		75	64	63	50	54
Southern region		86	87	84	69	73
Alcohol and drugs						
fatal or serious injuries in alcohol/drug crashes, per 100,000 population	NZ =	16	16	16	13	12
Northland and Auckland		13	13	13	9	10
Waikato and Bay of Plenty		21	28	22	18	16
Central region		17	17	16	13	13
Southern region		16	13	16	14	14
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	53
Northland and Auckland		52	54	41	34	31
Waikato and Bay of Plenty		132	106	109	96	88
Central region		89	82	75	49	47
Southern region		90	96	96	68	76
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	16
Central region		16	13	14	13	13
Southern region		16	16	20	15	12
Motorcycling						
motorcyclists hospitalised >1d from road crashes, per 100,000 population	NZ =	18	16	15	14	13
Northland and Auckland		16	13	13	12	13
Waikato and Bay of Plenty		22	20	20	17	15
Central region		19	16	15	12	14
Southern region		17	17	17	16	12
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	31

ROAD SAFETY OUTCOMES BY POLICE DISTRICT

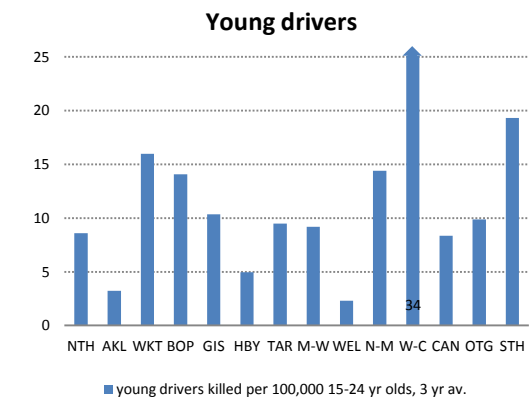
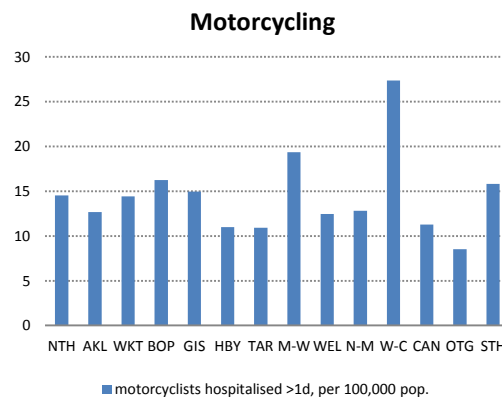
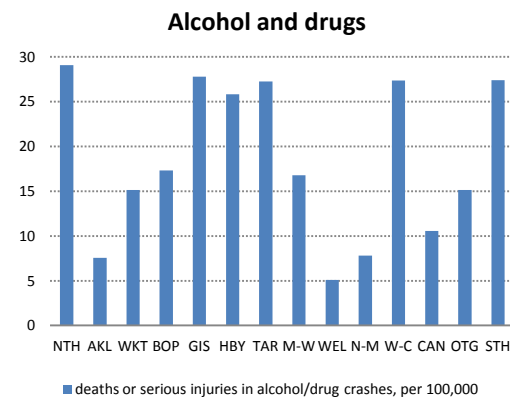
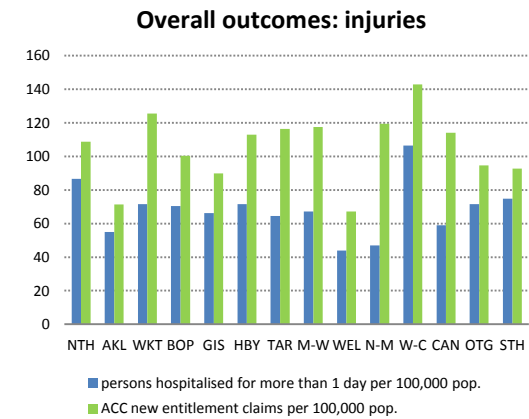
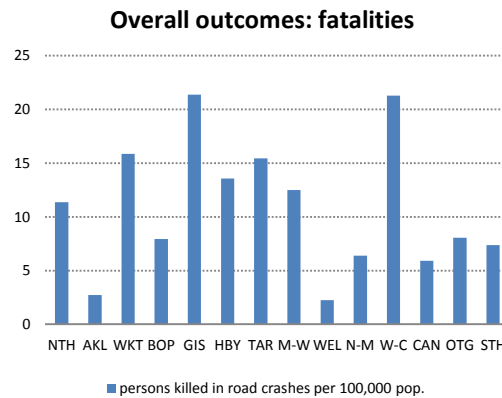
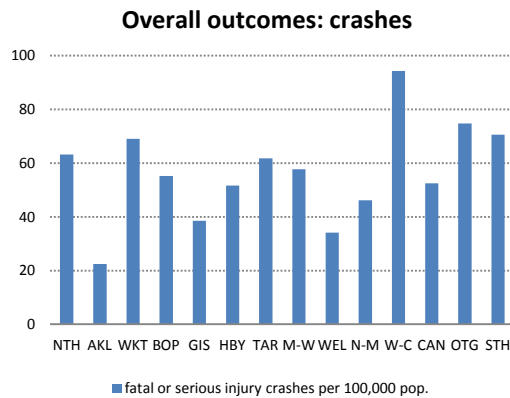
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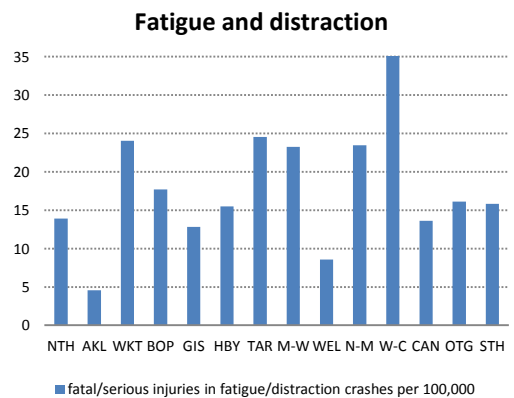
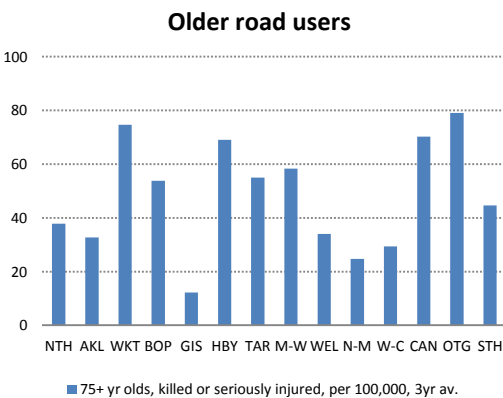
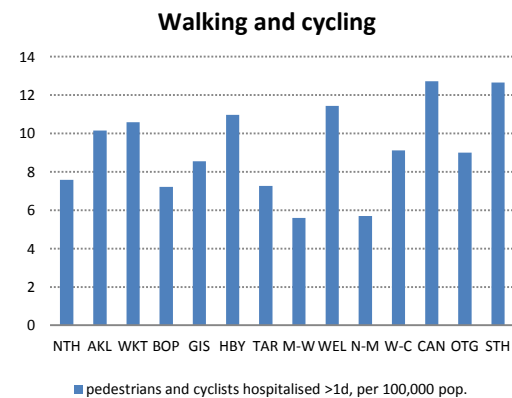
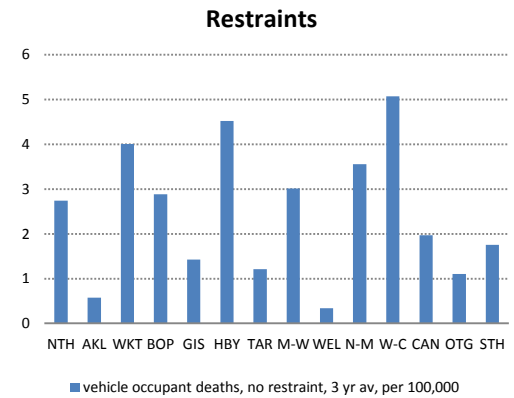
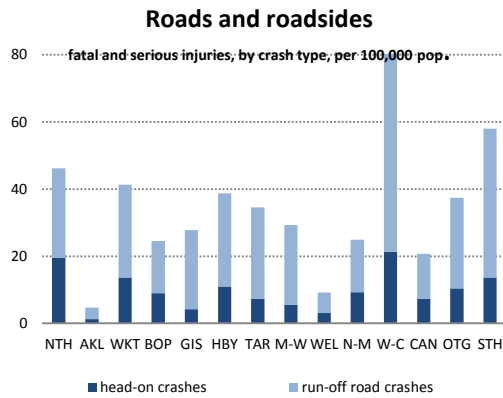
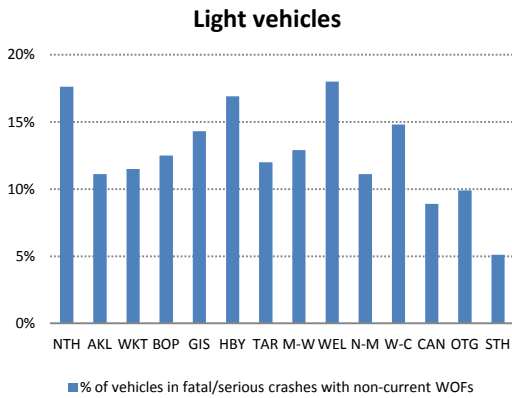
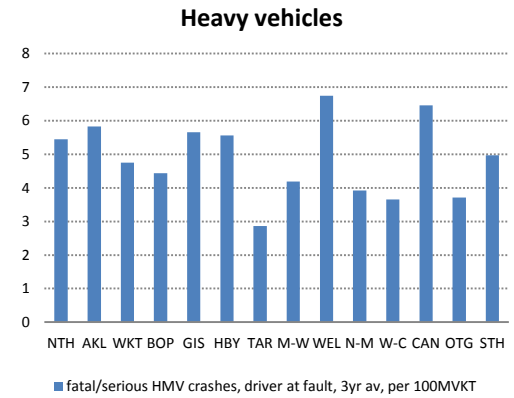
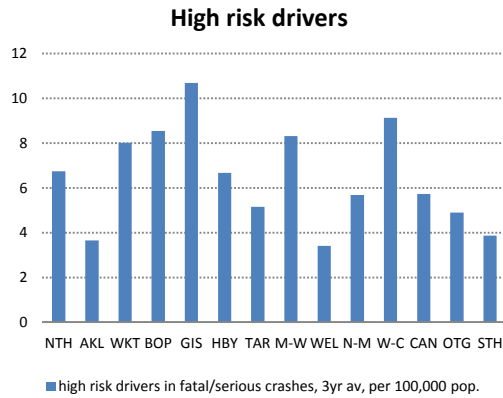
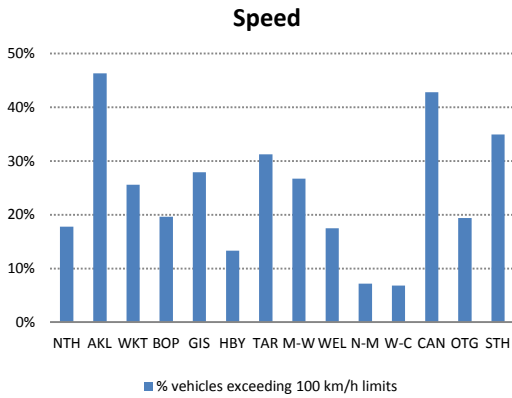




ROAD SAFETY OUTCOMES BY LOCAL GOVERNMENT REGION

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-yearly basis.





POLICE DISTRICT ROAD SAFETY OUTCOMES		NTH	WTM	AKL	C-M	WKT	BOP	EAS	CEN	WEL	TAS	CAN	STH		NZ
Overall	fatal or serious injury crashes per 100,000 population	62	21	23	25	67	59	49	60	34	59	51	73		44
	persons killed in road crashes, per 100,000 population	11	3	2	4	13	11	15	13	2	9	6	8		7
	persons hospitalised more than 1 day (>1d) , per 100000 popn.	87	55	55	55	72	71	70	66	44	58	59	72		61
	ACC new entitlement claims, per 100000 population	109	71	71	73	125	105	108	116	67	124	114	94		95
Alcohol	deaths or serious injuries in alc/drug crashes, per 100,000 popn.	27	8	7	9	16	16	26	20	5	12	10	19		13
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	9	4	1	3	15	15	6	10	2	18	8	12		7
Speed	% vehicles exceeding 100 km/h limits	18%			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	7	8	8	7	3	6	6	5		5
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	20	2	1	2	11	12	9	7	3	12	7	11		6
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	25	5	1	5	27	18	27	24	6	29	12	32		14
	deaths + serious injuries, intersection crashes, per 100,000 popn.	12	9	11	10	24	17	13	24	15	14	23	31		17
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	6	5	9	4	10	14	9	9	14	8	14	13		10
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	13	13	13	14	16	12	17	12	15	11	11		13
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFs	17%	11%	14%	9%	13%	11%	17%	13%	18%	12%	9%	8%		12%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	13	4	3	7	22	21	15	24	9	29	12	16		13
Heavy vehicles	fatal/serious hmv at fault crashes, 3yr avg, per 100m VKT	6	6	4	8	6	4	6	4	7	5	7	4		5
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	8	10	10	10	11	8	10	6	11	6	13	10		10
Older users	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	38	30	35	33	69	61	58	59	33	27	70	68		52
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	2.7	0.6	0.4	0.8	3.5	3.5	3.8	2.4	0.3	3.8	2.0	1.3		2

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	63	22	69	55	38	52	62	58	34	46	94	52	75	71
	persons killed in road crashes, per 100,000 population	11	3	16	8	21	14	15	12	2	6	21	6	8	7
	persons hospitalised more than 1 day (>1d) , per 100,000 popn.	87	55	72	70	66	72	64	67	44	47	106	59	71	75
	ACC new entitlement claims, per 100,000 population	109	71	125	100	90	113	116	117	67	119	143	114	95	93
Alcohol	deaths or serious injuries in alcohol/drug crashes, per 100,000 popn.	29	8	15	17	28	26	27	17	5	8	27	11	15	27
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	9	3	16	14	10	5	9	9	2	14	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	11	7	5	8	3	6	9	6	5	4
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	20	1	14	9	4	11	7	6	3	9	21	7	10	14
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	27	3	28	16	24	28	27	24	6	16	61	13	27	44
	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.	6	6	10	14	9	9	10	8	14	7	12	14	15	9
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	13	14	16	15	11	11	19	12	13	27	11	9	16
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFs	18%	11%	12%	13%	14%	17%	12%	13%	18%	11%	15%	9%	10%	5%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	14	5	24	18	13	15	25	23	9	23	36	14	16	16
Heavy vehicles	fatal/serious HMV at fault crashes, 3yr avg, per 100m VKT	5	6	5	4	6	6	3	4	7	4	4	6	4	5
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	8	10	11	7	9	11	7	6	11	6	9	13	9	13
Older users	persons 75+ years killed or seriously injured, per 100,000, 3yr avg.	38	33	75	54	12	69	55	58	34	25	29	70	79	45
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	2.7	0.6	4.0	2.9	1.4	4.5	1.2	3.0	0.3	3.6	5.1	2.0	1.1	1.8