

Road safety outcomes

Quarterly progress report for January – March 2012



New Zealand Government

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
- 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 2012 in some cases but usually to December 2011. Some measures are only available on an annual basis.

Not all of the outcome measures are available at a Regional or Police District level, and an alternative headline measure is presented in the relevant charts. Also in the regional and police district charts, some measures are shown on an averaged three-yearly basis where the numbers involved are too small to give meaningful single year comparisons.

Key results for the quarter are:

- the annual number of road **fatalities remains historically low**, close to 300 per year in the first quarter of 2012
- **significant crash and injury reductions** during 2011, particularly for crashes involving Alcohol and drugs, Young drivers, and High risk drivers
- the percentages of vehicles exceeding the open road and urban limits, and overall mean vehicle **speeds, increased slightly in 2011**, a reversal of recent trends
- around 20% of light vehicles involved in fatal and serious injury crashes in **Northland, Gisborne and Taranaki** did not have current WOFs

More information ...

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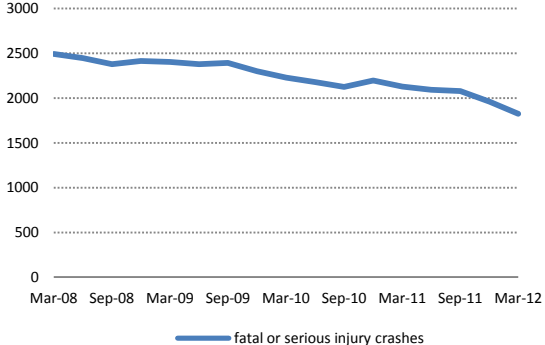
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This document is available on the NZTA's website at www.nzta.govt.nz/resources/road-safety-outcomes.

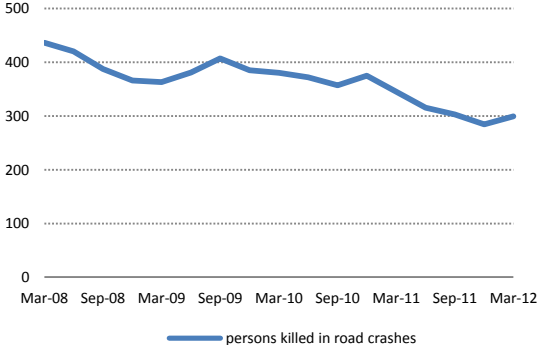
ROAD SAFETY OUTCOMES 2008-2012 (12-MONTH ROLLING FIGURES)

Outcome measures shown 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.

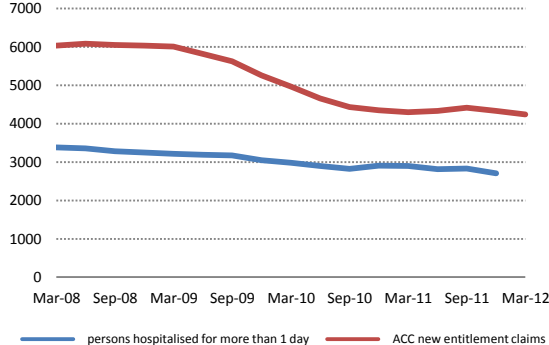
Overall outcomes: crashes



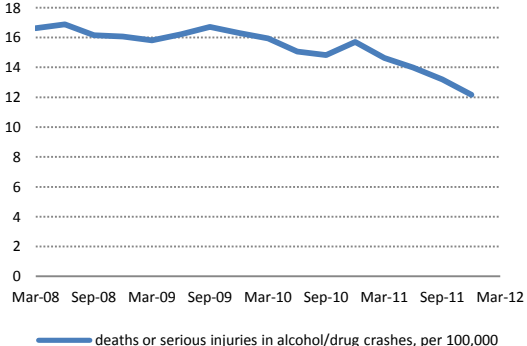
Overall outcomes: fatalities



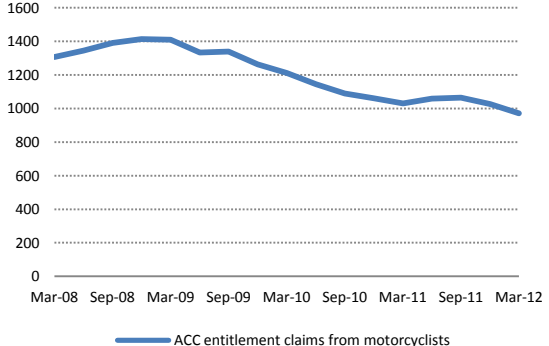
Overall outcomes: injuries



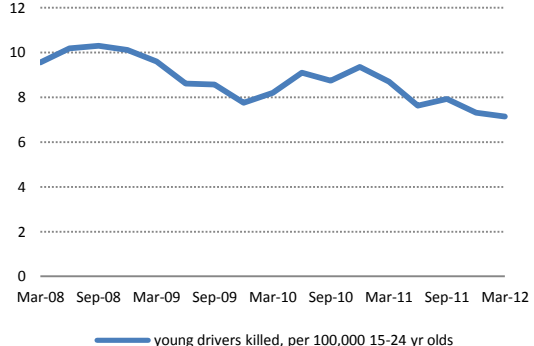
Alcohol and drugs



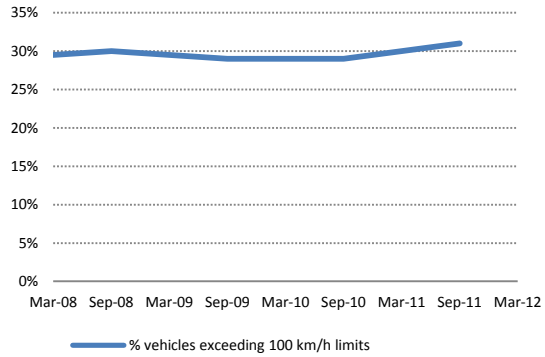
Motorcycle safety



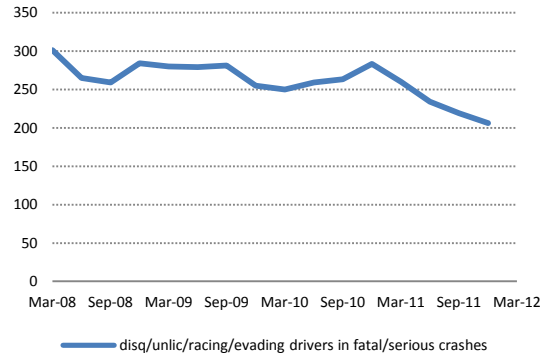
Young driver safety



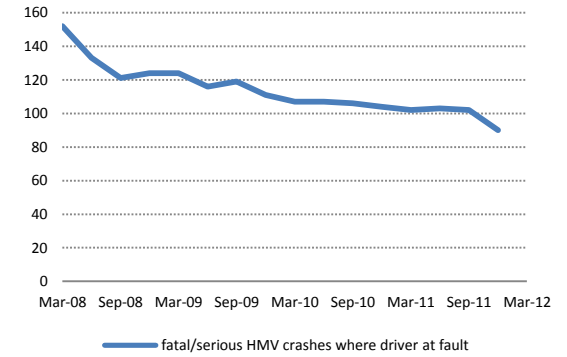
Speed



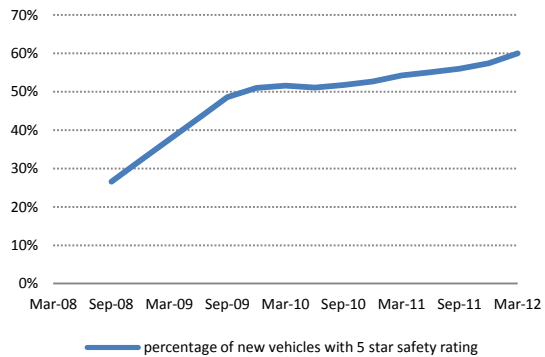
High risk drivers



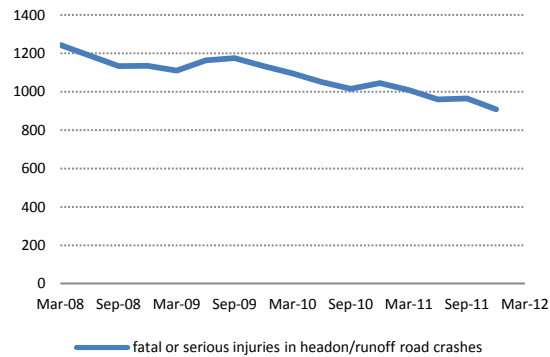
Heavy vehicles



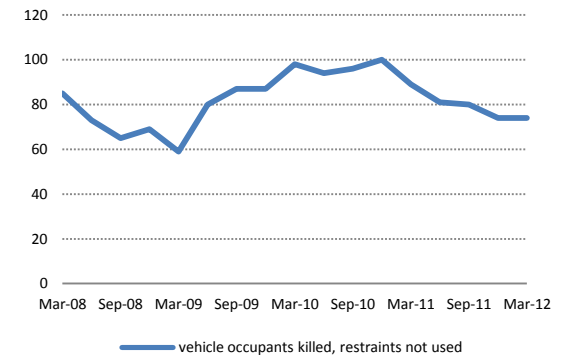
New cars and light commercials



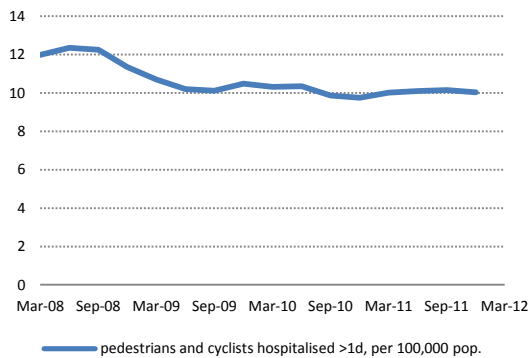
Roads and roadsides



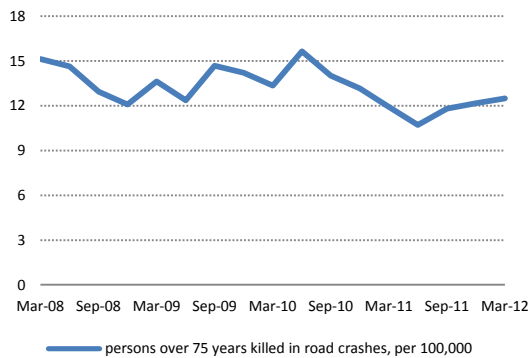
Restraints



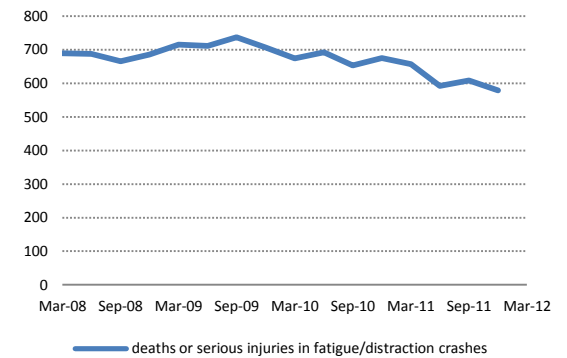
Walking and cycling



Older road users



Fatigue and distraction



ROAD SAFETY OUTCOMES	LATEST FIGURES			LAST FIVE YEARS				
	latest quarter	latest 12 months	as at	2007	2008	2009	2010	2011
Overall outcomes								
fatal or serious injury crashes	475	1958	Dec 2011	2475	2413	2298	2194	1958
persons killed in road crashes	85	299	Mar 2012	421	365	384	375	284
persons killed or seriously injured	566	2328	Dec 2011	3056	2878	2809	2663	2328
persons killed or seriously injured, per 100 million vehicle km travelled	528	543	Dec 2011	759	706	682	634	543
persons hospitalised for more than 1 day (>1d)	669	2707	Dec 2011	3404	3240	3032	2908	2707
ACC new entitlement claims	1023	4236	Mar 2012	6062	6027	5252	4347	4333
Alcohol and drugs								
deaths or serious injuries in alcohol/drug crashes, per 100,000 population, per year	10.9	12.2	Dec 2011	16.2	16.2	16.3	15.7	12.2
drivers killed with excess alcohol	18	45	Dec 2011	65	59	66	67	45
% think high probability being stopped at CBT checkpoint	-	56%	2011	54%	51%	52%	56%	56%
% think high probability being tested for drugs (NEW)	-	n/a	-	-	-	-	-	-
Young drivers								
young drivers killed, per 100,000 15-24 year olds, per year	6.8	7.1	Mar 2012	9.3	10.1	7.7	9.3	7.3
young drivers (15-24 years) hospitalised >1d, per 100,000 15-24 year olds, per year	43	47	Dec 2011	74	73	65	55	47
% youth believe will be stopped for non alcohol/speed traffic offences	-	39%	2011	39%	35%	41%	44%	39%
drivers on GDL at fault in fatal/serious crashes	51	252	Dec 2011	402	384	372	278	252
young drivers (15-24 years) killed with excess alcohol, per 100,000 15-24 yr olds, per year	1.9	2.3	Dec 2011	2.8	3.7	3.0	3.7	2.3
fatal and serious crashes involving 15-19 year old drivers	57	280	Dec 2011	477	450	442	379	280
Speed								
% vehicles exceeding 100 km/h limits	-	31%	2011	29%	30%	29%	29%	31%
% vehicles exceeding 50 km/h limits	-	59%	2011	63%	64%	61%	58%	59%
fatal/serious speed-related crashes	102	415	Dec 2011	549	521	464	458	415
% disagree probability being detected speeding is small	-	51%	2011	54%	54%	50%	52%	51%
mean rural speed (km/h)	-	96.5	2011	96.3	96.6	96.3	96.2	96.5
mean urban speed (km/h)	-	52.0	2011	52.5	52.6	52.3	52.0	52.0
Motorcycle safety								
ACC entitlement claims from motorcyclists	248	970	Mar 2012	1312	1412	1262	1060	1025
motorcycle and moped riders killed, per 100,000 population, per year	1.1	0.8	Mar 2012	1.0	1.2	1.1	1.1	0.7
% of motorcycles in crashes with non-current WoFs	27%	26%	Dec 2011	24%	28%	26%	27%	26%
motorcyclists hospitalised >1d, per 100,000 population, per year ⁽¹⁾	14.2	13.6	Dec 2011	18.4	18.0	15.6	15.2	13.6
Roads and roadsides								
fatal or serious injuries in head-on and run off road crashes	247	907	Dec 2011	1225	1135	1133	1045	907
fatal and serious injury SH crashes on 2-star KiwiRAP rated roads (NEW)	-	n/a	-	-	300	-	-	-
deaths or serious injuries in head-on crashes	76	304	Dec 2011	421	340	361	296	304
deaths or serious injuries in run-off road crashes	171	603	Dec 2011	804	795	772	749	603
deaths or serious injuries in intersection crashes	126	646	Dec 2011	923	887	827	784	646
deaths or serious injuries in pedestrian/cyclist crashes	88	417	Dec 2011	477	500	418	437	417

ROAD SAFETY OUTCOMES	LATEST FIGURES			LAST FIVE YEARS				
	latest quarter	latest 12 months	as at	2007	2008	2009	2010	2011
High risk drivers								
fatal or serious injury crashes with high risk driver⁽²⁾	67	206	Dec 2011	309	284	255	283	206
% 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	60	178	Dec 2011	249	241	203	238	178
Light vehicles								
% of new vehicles with 5-star safety rating	68%	60%	Mar 2011	-	32%	51%	53%	57%
% of vehicles in fatal/serious crashes with non-current WOFs ⁽³⁾	13%	12%	Dec 2011	14%	14%	12%	13%	12%
average (median) age of light vehicle fleet (years)	-	13.2	Dec 2011	12.1	12.2	12.6	12.9	13.2
Fatigue and distraction								
deaths or serious injuries in fatigue/distraction crashes	147	579	Dec 2011	702	685	706	675	579
fatal/serious crashes with contributing fatigue/distraction	120	483	Dec 2011	545	563	567	551	483
fatal/serious crashes meeting ATSB fatigue definition ⁽³⁾	35	106	Dec 2011	174	127	160	134	106
Heavy vehicles								
fatal/serious injury HMV crashes where driver at fault	17	90	Dec 2011	169	124	111	104	90
fatal/serious crashes involving HMVs	45	209	Dec 2011	308	277	226	212	209
% of fatal/serious HMV crashes where HMV driver at fault	38%	43%	Dec 2011	54%	45%	49%	49%	43%
% of HMV drivers exceeding 90 km/h speed limit	-	44%	2011	40%	46%	43%	45%	44%
% of HMV drivers exceeding 50 km/h speed limit	-	47%	2011	49%	55%	48%	44%	47%
Walking and cycling								
pedestrians and cyclists hospitalised >1d, per 100,000 population, per year	9.1	10.0	Dec 2011	11.4	11.4	10.5	9.7	10.0
pedestrians and cyclists killed, per 100,000 population, per year	1.1	1.1	Mar 2012	1.4	1.1	0.9	1.0	0.9
fatal and serious injuries to school age (5-17) cyclists and peds	16	89	Dec 2011	108	99	101	75	89
% cyclists wearing helmets	-	93%	2011	92%	92%	92%	93%	93%
Older road users								
persons over 75 years killed in road crashes, per 100,000 75+ year olds, per year	9	12	Mar 2012	15	12	14	13	12
drivers over 75 years killed per 100,000 75+ year olds, per year	2	4.5	Mar 2012	7.9	5.7	9.2	7.0	5.7
drivers over 75 years, seriously injured, per 100,000 75+ year olds, per year	23	23	Dec 2011	24	26	29	22	23
persons over 75 years, ACC claims, per 100,000 75+ year olds, per year	62	54	Mar 2012	96	99	96	75	68
Restraints								
vehicle occupant deaths where restraints not worn	16	74	Mar 2012	81	69	87	100	74
% of children (5-9 years) in booster seats (NEW)	-	n/a	-	-	-	-	-	-
% front seat adult vehicle occupants restrained	-	96%	2011	95%	96%	95%	96%	96%
% child (0-4 years) vehicle occupants restrained	-	93%	2010	91%	90%	91%	93%	
% drivers think highly likely to be stopped for non-compliance	-	41%	2010	38%	40%	39%	41%	40%

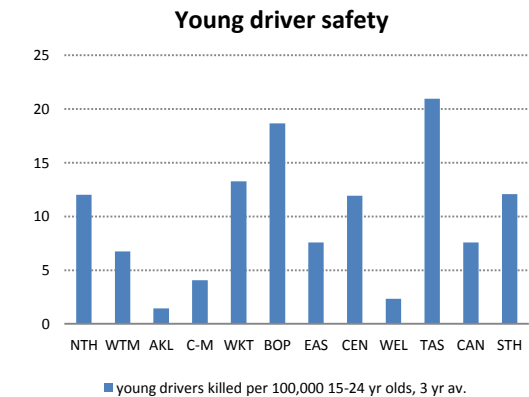
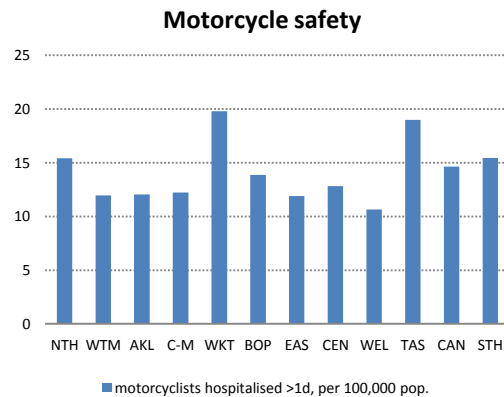
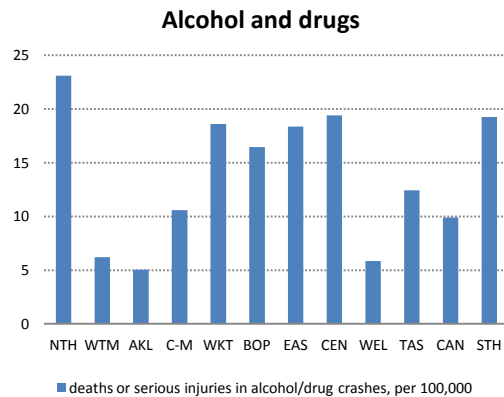
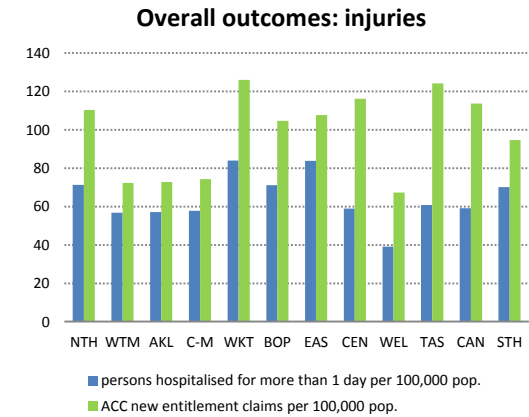
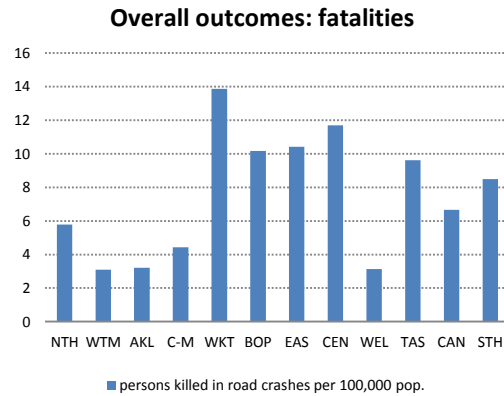
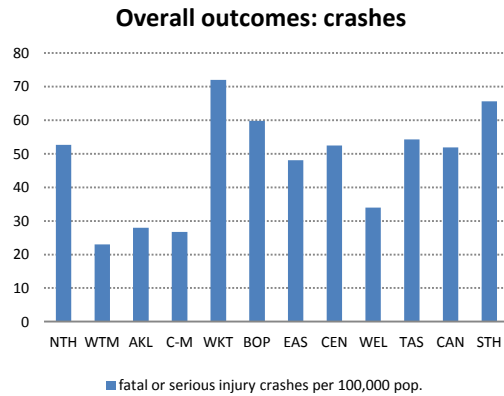
(1) National headline measure not available at regional/district level, this measure used instead for local government region and police district charts

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

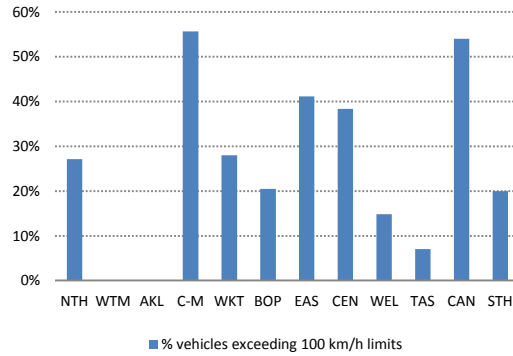
(3) Counts open road crashes with no alcohol, unlicensed drivers, or pedestrians, either head on on straight road, or single vehicle between 00:00-05:59h or 14:00-15:59h

ROAD SAFETY OUTCOMES BY POLICE DISTRICT

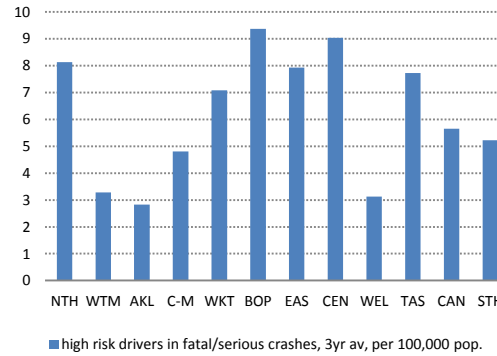
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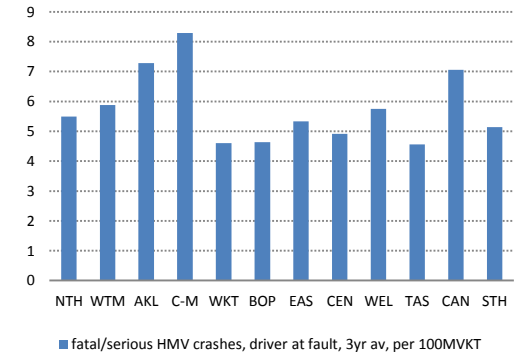
Speed



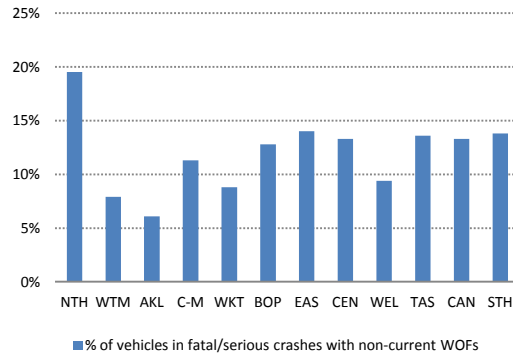
High risk drivers



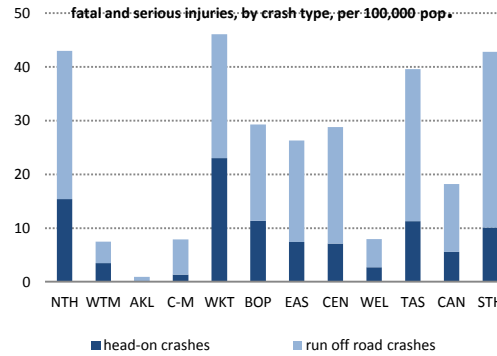
Heavy vehicles



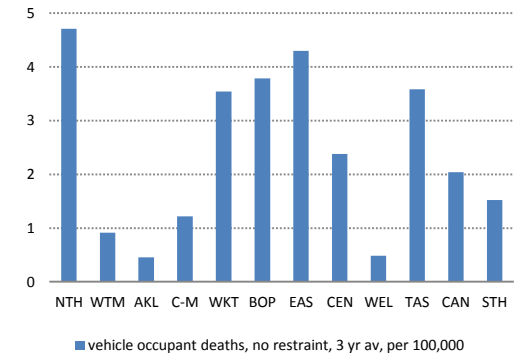
New cars and light commercials



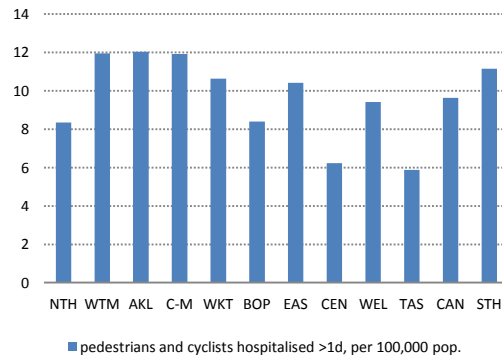
Roads and roadsides



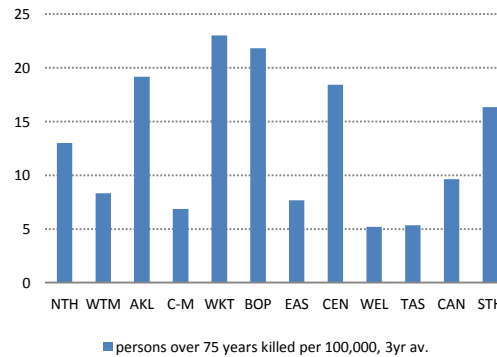
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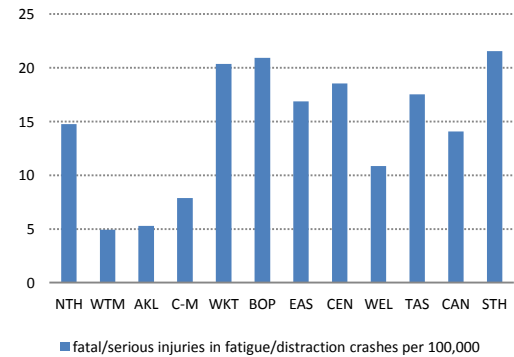
Walking and cycling



Older road users

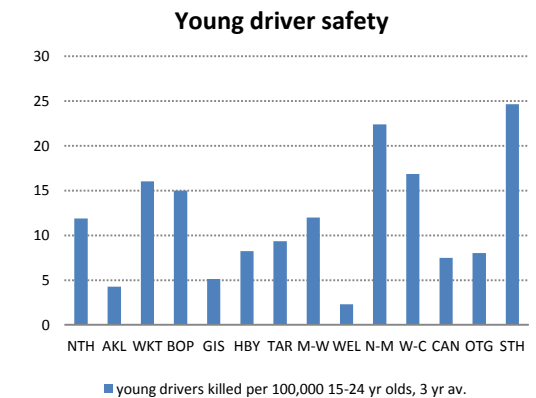
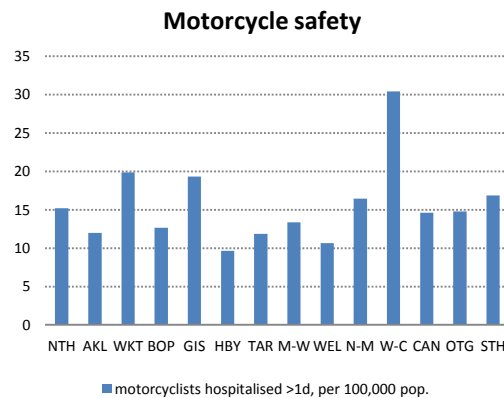
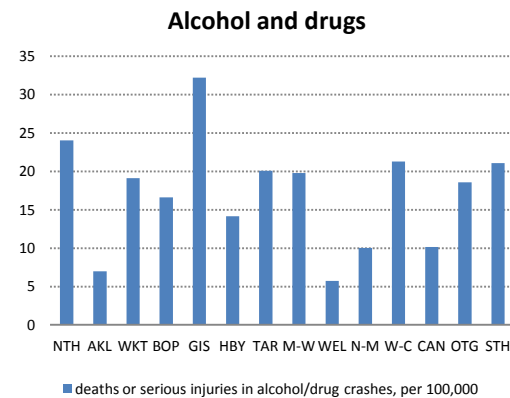
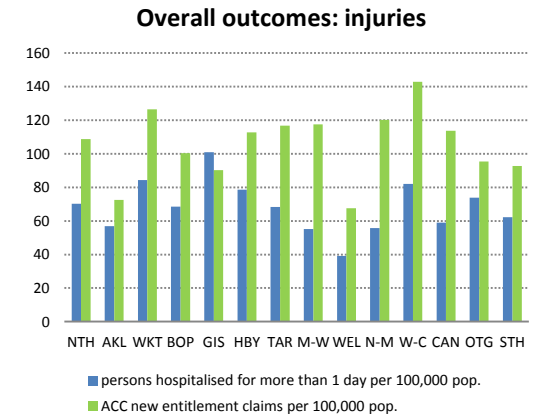
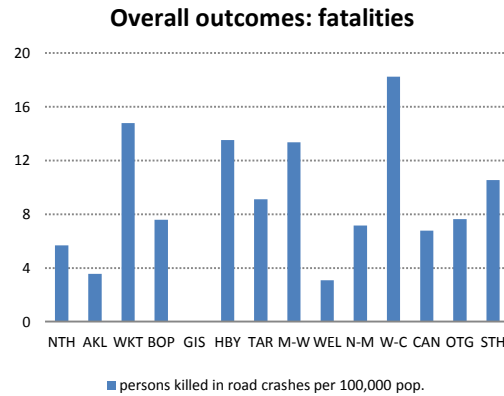
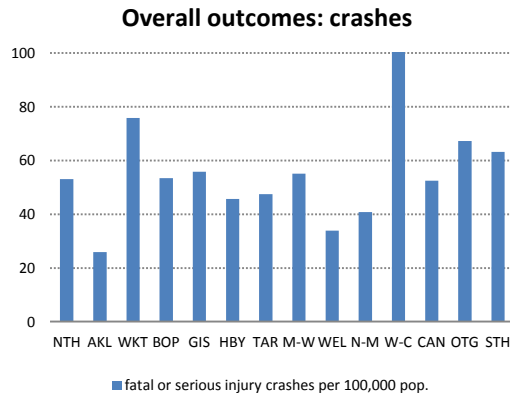


Fatigue and distraction

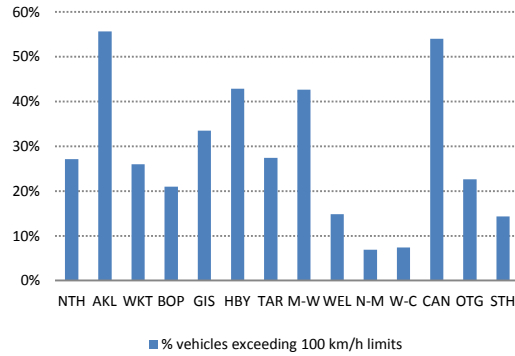


ROAD SAFETY OUTCOMES BY LOCAL GOVERNMENT REGION

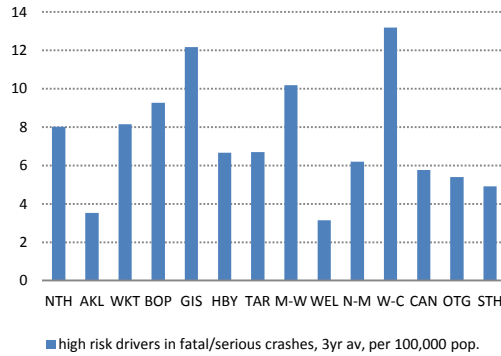
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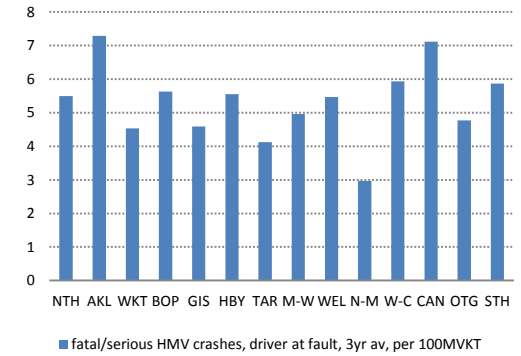
Speed



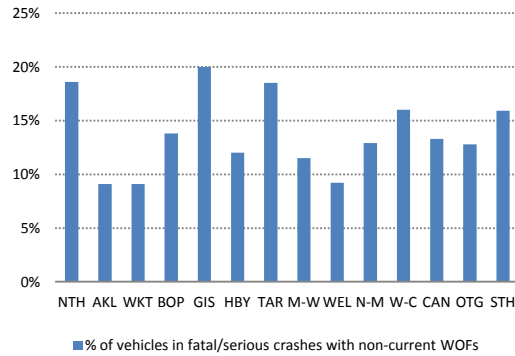
High risk drivers



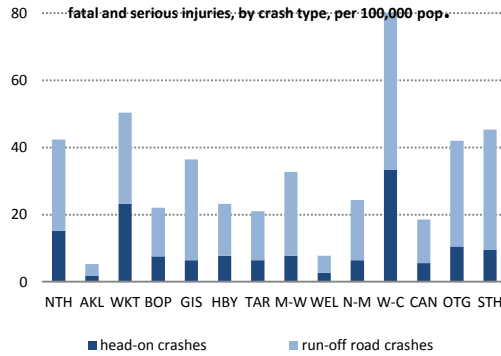
Heavy vehicles



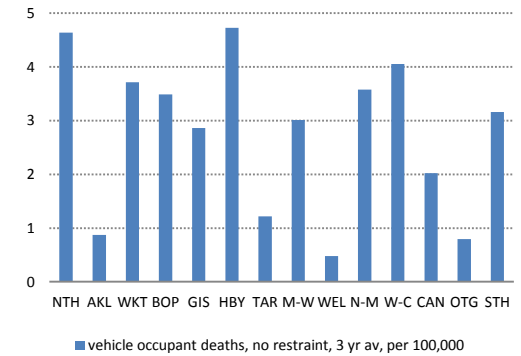
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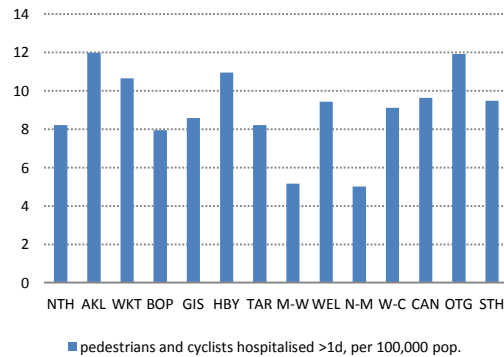
Roads and roadsides



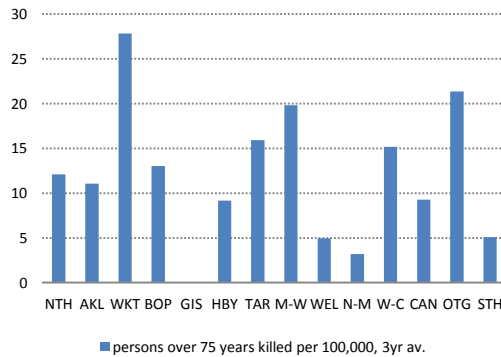
Restraints



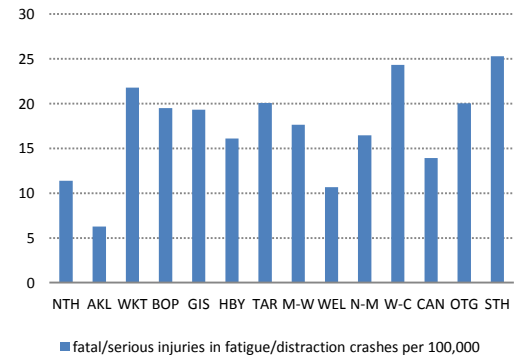
Walking and cycling



Older road users



Fatigue and distraction



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	53	23	28	27	72	60	48	52	34	54	52	66		44
	persons killed in road crashes, per 100,000 population	6	3	3	4	14	10	10	12	3	10	7	8		7
	persons hospitalised more than 1 day (>1d) , per 100000	71	57	57	58	84	71	84	59	39	70	61	70		61
	ACC new entitlement claims, per 100000 population	110	72	73	74	126	105	108	116	67	124	114	95		95
Alcohol	deaths or serious injuries in alc/drug crashes, per 100,000	23	6	5	11	19	16	18	19	6	12	10	19		12
Youth	young drivers killed, per 100,000 15-24 year old, 3-year average	12	7	1	4	13	19	8	12	2	21	8	12		8
Speed	% vehicles exceeding 100 km/h limits	27%			56%	28%	21%	41%	38%	15%	7%	54%	20%		31%
High risk	high risk drivers in fatal/serious crash, 3-year average per 100,000	8	3	3	5	7	9	8	9	3	8	6	5		6
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000	15	3	0	1	23	11	7	7	3	11	6	10		7
	deaths + serious injuries, run-off road crashes, per 100,000	28	4	1	7	23	18	19	22	5	28	13	33		14
	deaths + serious injuries, intersection crashes, per 100,000	6	8	14	9	23	18	17	21	13	12	24	20		16
	deaths + serious injuries in ped/cyclist crashes, per 100,000	6	7	11	5	12	13	8	3	12	7	12	13		9
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	12	12	20	14	12	13	11	19	15	15		14
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFS	20%	8%	6%	11%	9%	13%	14%	13%	9%	14%	13%	14%		12%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100km	15	5	5	8	20	21	17	19	11	18	14	22		13
Heavy vehicles	fatal/serious hmv at fault crashes, 3yr avg, per 100m VKT	5	6	7	8	5	5	5	5	6	5	7	5		6
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	8	12	12	12	11	8	10	6	9	6	10	11		10
Older users	persons over 75 years killed, per 100,000, 3yr avg.	13	8	19	7	23	22	8	18	5	5	10	16		13
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000	5	1	1	1	4	4	4	2	1	4	2	2		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	53	26	76	53	56	46	47	55	34	41	103	52	67	63
	persons killed in road crashes, per 100,000 population	6	4	15	8	0	14	9	13	3	7	18	7	8	11
	persons hospitalised more than 1 day (>1d) , per 100,000	70	57	84	69	101	79	68	55	39	56	82	59	74	62
	ACC new entitlement claims, per 100,000 population	109	72	126	100	90	113	117	117	67	120	143	114	95	93
Alcohol	deaths or serious injuries in alcohol/drug crashes, per 100,000	24	7	19	17	32	14	20	20	6	10	21	10	19	21
Youth	young drivers killed, per 100,000 15-24 yr olds, 3 yr avg.	12	4	16	15	5	8	9	12	2	22	17	7	8	25
Speed	% vehicles exceeding 100 km/h limits	27%	56%	26%	21%	34%	43%	27%	43%	15%	7%	7%	54%	23%	14%
High risk	high risk drivers in fatal/serious crash, 3yr avg, per 100,000	8	4	8	9	12	7	7	10	3	6	13	6	5	5
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000	15	2	23	8	6	8	6	8	3	6	33	6	10	9
	deaths + serious injuries, run-off road crashes, per 100,000	27	3	27	14	30	15	15	25	5	18	67	13	31	36
	deaths + serious injuries, intersection crashes, per 100,000	6	10	23	16	30	14	25	20	13	13	9	24	21	16
	deaths + serious injuries in ped/cyclist crashes, per 100,000	6	8	12	12	6	8	3	4	12	6	9	12	15	8
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	20	13	19	10	12	13	11	16	30	15	15	17
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFS	19%	9%	9%	14%	20%	12%	19%	12%	9%	13%	16%	13%	13%	16%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100km	11	6	22	19	19	16	20	18	11	16	24	14	20	25
Heavy vehicles	fatal/serious HMV at fault crashes, 3yr avg, per 100m VKT	5	7	5	6	5	6	4	5	5	3	6	7	5	6
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	8	12	11	8	9	11	8	5	9	5	9	10	12	9
Older users	persons over 75 years killed, per 100,000, 3yr avg.	12	11	28	13	0	9	16	20	5	3	15	9	21	5
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000	5	1	4	3	3	5	1	3	0	4	4	2	1	3