

Road safety outcomes

Quarterly progress report for April – June 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
- a new feature, 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 June 2012 in some cases but usually to March 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 casualty trends are continuing downwards, and **fatalities remain under 300** per year in the first half of 2012
- sharp decreases in **young driver crashes**, deaths and serious, particularly for alcohol and drug related crashes
- the new survey of restraint use by 5-9 year old children shows only **1-in-6 using booster seats** in this age group in 2011
- improvements across the five high priority areas of concern are most apparent in the **Waikato and Bay of Plenty** regions.

More information ...

Published 2 August 2012

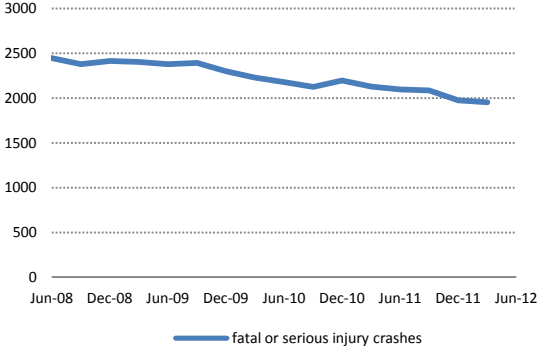
NZ Transport Agency
Private Bag 6995
Wellington 6141

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

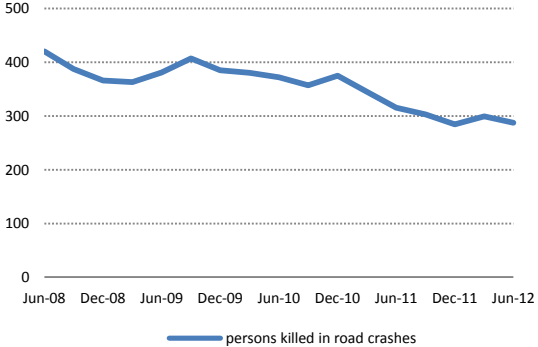
ROAD SAFETY OUTCOMES 2008-2012 (12-MONTH ROLLING FIGURES)

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.

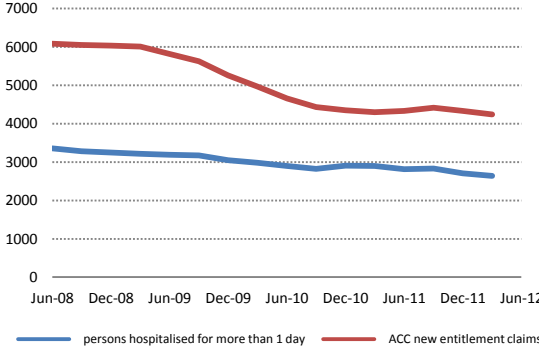
Overall outcomes: crashes



Overall outcomes: fatalities



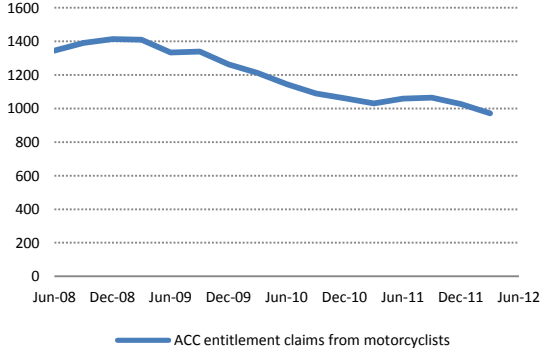
Overall outcomes: injuries



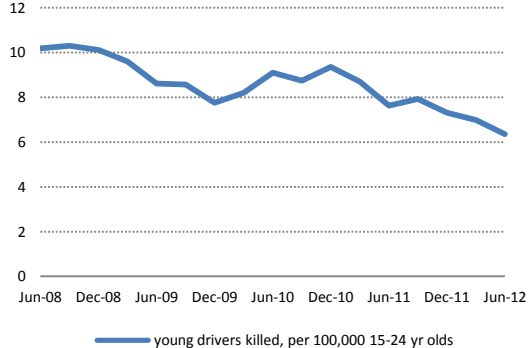
Alcohol and drugs



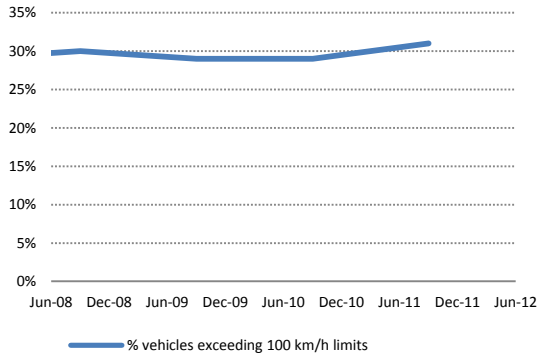
Motorcycle safety



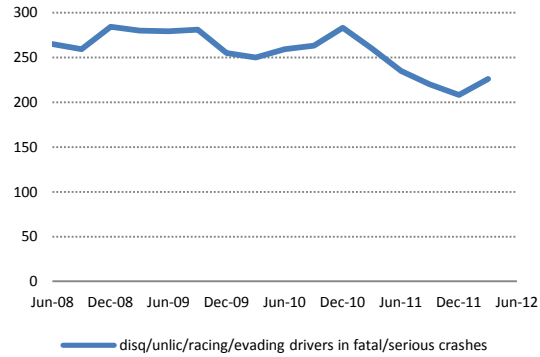
Young driver safety



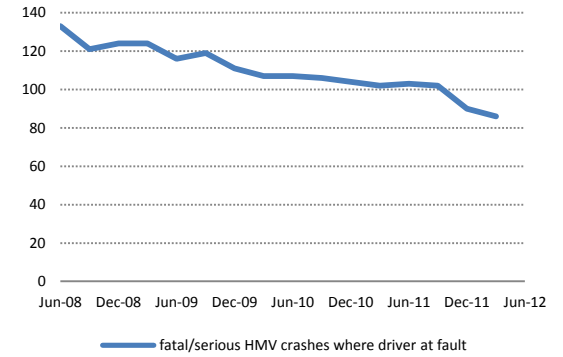
Speed



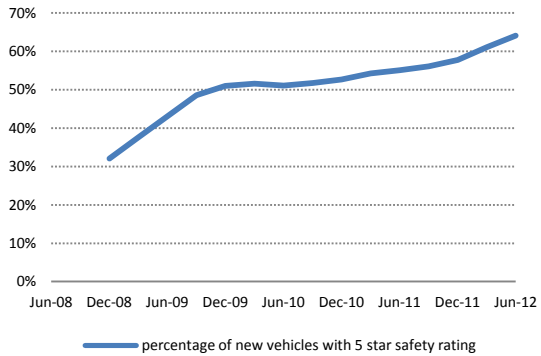
High risk drivers



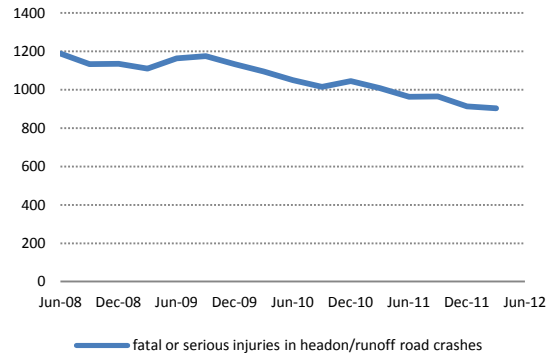
Heavy vehicles



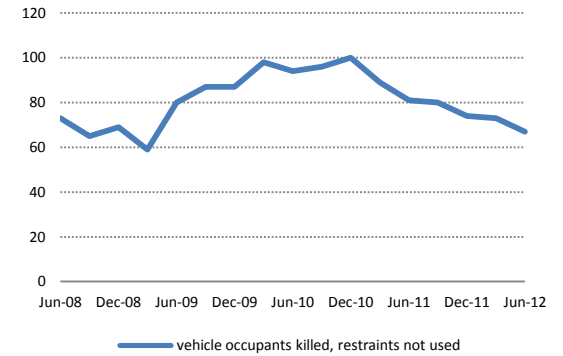
New cars and light commercials



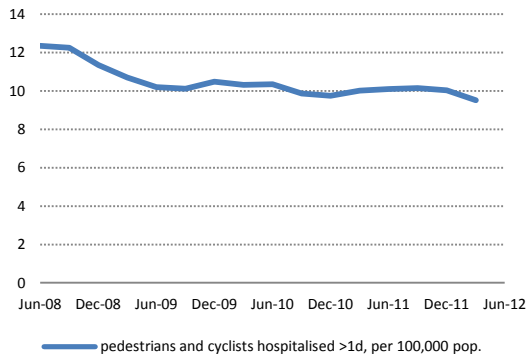
Roads and roadsides



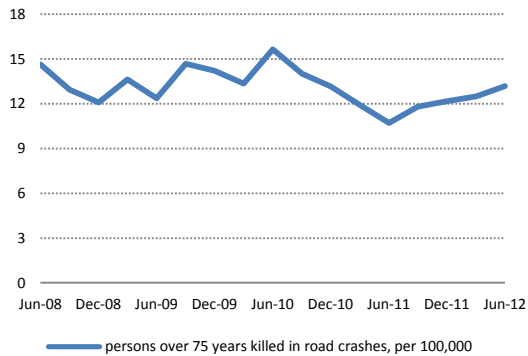
Restraints



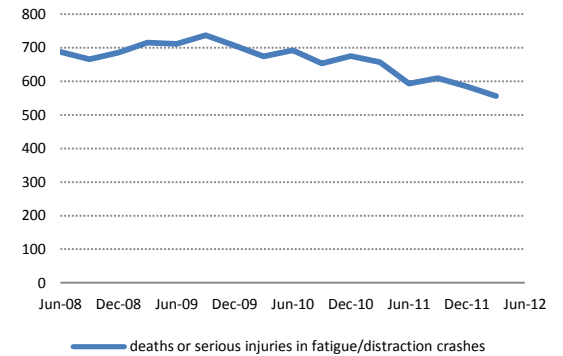
Walking and cycling



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	512	1954	Mar 2012	2475	2413	2298	2194	1975
persons killed in road crashes	57	287	Jun 2012	421	365	384	375	284
persons killed or seriously injured	627	2267	Mar 2012	3056	2878	2809	2663	2324
persons killed or seriously injured, per 100 million vehicle km travelled	6.1	5.6	Mar 2012	7.6	7.1	6.9	6.4	5.6
persons hospitalised for more than 1 day (>1d)	699	2639	Mar 2012	3404	3240	3032	2908	2707
ACC new entitlement claims	1023	4236	Mar 2012	6062	6027	5252	4347	4330
Alcohol and drugs								
fatal or serious injuries in alcohol/drug crashes, per 100,000 population, per year	12.1	12.3	Mar 2012	16.2	16.2	16.3	15.7	12.5
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	5.0	6.3	Jun 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	47	45	Mar 2012	402	384	372	278	255
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	68	279	Mar 2012	477	450	442	379	282
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	96	395	Mar 2012	549	521	464	458	420
% 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	0.8	0.7	Jun 2012	1.0	1.2	1.1	1.1	0.7
% of motorcycles in crashes with non-current WoFs	20%	25%	Mar 2012	24%	28%	26%	27%	26%
motorcyclists hospitalised >1d, per 100,000 population, per year ⁽¹⁾	15.4	13.3	Mar 2012	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	261	903	Mar 2012	1225	1135	1133	1045	912
fatal or serious injury SH crashes on 2-star KiwiRAP rated roads (NEW)	-	n/a	-	-	300	-	-	-
fatal or serious injuries in head-on (*not overtaking) crashes, 80-100 km/h roads	112	310	Mar 2012	421	340	361	296	304
fatal or serious injuries in run-off road crashes, 80-100 km/h roads	149	593	Mar 2012	804	795	772	749	608
fatal or serious injuries in intersection crashes	194	698	Mar 2012	923	887	827	784	695
fatal or serious injuries in pedestrian/cyclist crashes	118	424	Mar 2012	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⁾	64	226	Mar 2012	309	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	50	195	Mar 2012	249	241	203	238	180
Light vehicles								
% of new vehicles with 5-star safety rating	66%	64%	Jun 2012	-	32%	51%	53%	58%
% of vehicles in fatal/serious crashes with non-current WOFs ⁽³⁾	12%	12%	Mar 2012	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								
fatal or serious injuries in fatigue/distraction crashes	141	556	Mar 2012	702	685	706	675	584
fatal/serious crashes with contributing fatigue/distraction	125	470	Mar 2012	545	563	567	551	488
fatal/serious crashes meeting ATSB fatigue definition ⁽³⁾	31	110	Mar 2012	174	127	160	134	105
Heavy vehicles								
fatal/serious injury HMV crashes where driver at fault	25	86	Mar 2012	169	124	111	104	90
fatal/serious crashes involving HMVs	64	206	Mar 2012	308	277	226	212	209
% of fatal/serious HMV crashes where HMV driver at fault	39%	42%	Mar 2012	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	8.3	9.5	Mar 2012	11.4	11.4	10.5	9.7	10.0
pedestrians and cyclists killed, per 100,000 population, per year	0.5	0.8	Jun 2012	1.4	1.1	0.9	1.0	0.9
fatal or serious injuries to school age (5-17) cyclists and peds	23	81	Mar 2012	108	99	101	75	91
% 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	18	13	Jun 2012	15	12	14	13	12
drivers over 75 years killed per 100,000 75+ year olds, per year	5	4.9	Jun 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	15	20	Mar 2012	24	26	29	22	23
persons over 75 years, ACC claims, per 100,000 75+ year olds, per year	62	64	Mar 2012	96	99	96	75	68
Restraints								
vehicle occupant deaths where restraints not worn	11	67	Jun 2012	81	69	87	100	74
% of children (5-9 years) in booster seats (NEW)	-	17%	2011	-	-	-	-	17%
% 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%	n/a
% drivers think highly likely to be stopped for non-compliance	-	40%	2011	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

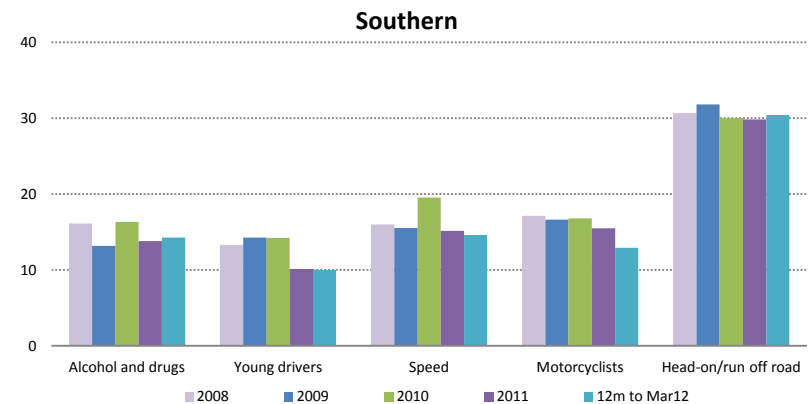
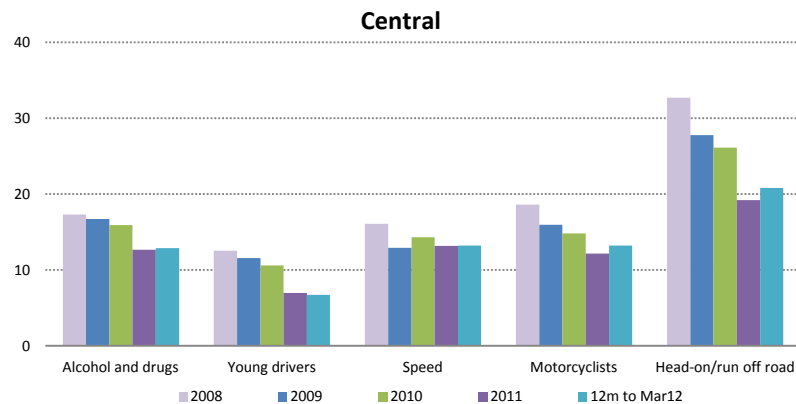
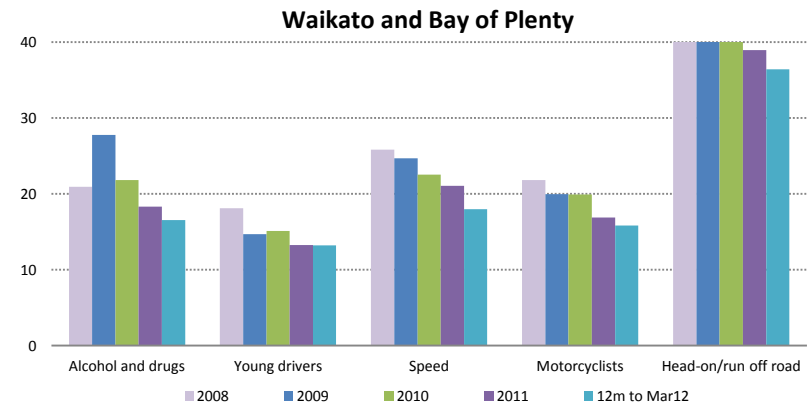
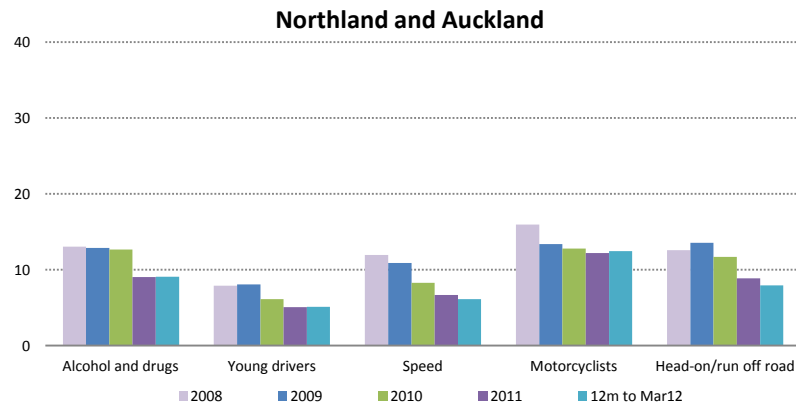
(2) High risk driver = disqualified, unlicensed, illegal street racing, evading enforcement

(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 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



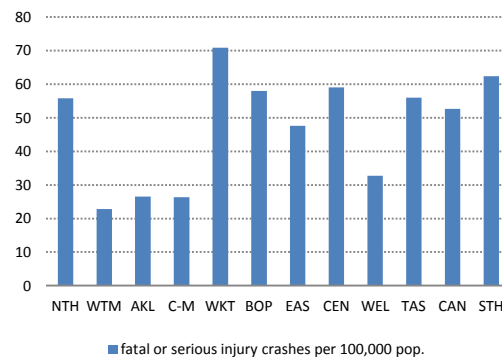
* Motorcycle casualties = hospitalisations for more than 1 day; head-on and run-off road crashes are open road crashes (80-100 km/h).

NZTA REGION OUTCOMES	LAST FIVE YEARS					
	2008	2009	2010	2011	latest 12 months, to Mar 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	31
Waikato and Bay of Plenty		92	90	80	86	81
Central region		75	64	63	50	52
Southern region		86	87	84	69	69
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	9
Waikato and Bay of Plenty		21	28	22	18	19
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	54
Northland and Auckland		52	54	41	34	34
Waikato and Bay of Plenty		132	106	109	96	95
Central region		89	82	75	49	47
Southern region		90	96	96	68	67
Speed						
fatal or serious injuries in speed-related crashes, per 100,000 population	NZ =	16	15	14	12	12
Northland and Auckland		12	11	8	7	6
Waikato and Bay of Plenty		26	25	23	21	18
Central region		16	13	14	13	13
Southern region		16	16	20	15	15
Motorcycle safety						
motorcyclists hospitalised >1d from road crashes, per 100,000 population	NZ =	18	16	15	14	13
Northland and Auckland		16	13	13	12	12
Waikato and Bay of Plenty		22	20	20	17	16
Central region		19	16	15	12	13
Southern region		17	17	17	16	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	20
Northland and Auckland		13	14	12	9	8
Waikato and Bay of Plenty		43	45	41	39	36
Central region		33	28	26	19	21
Southern region		31	32	30	30	30

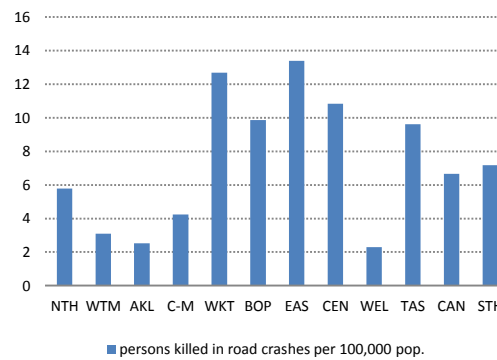
ROAD SAFETY OUTCOMES BY POLICE DISTRICT

The following charts and tables show headline outcome measures for the 12 months to the end of the latest available quarter. 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.

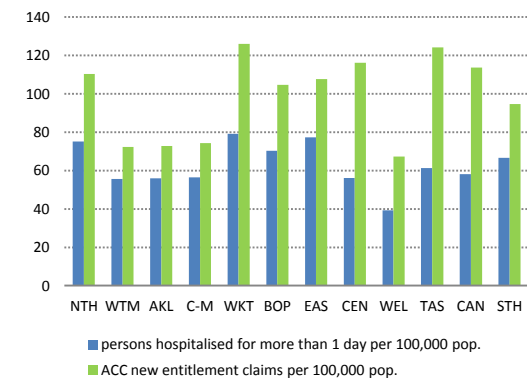
Overall outcomes: crashes



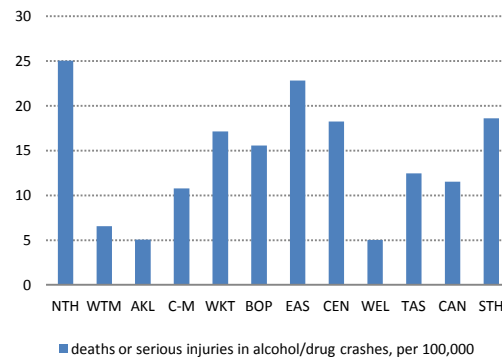
Overall outcomes: fatalities



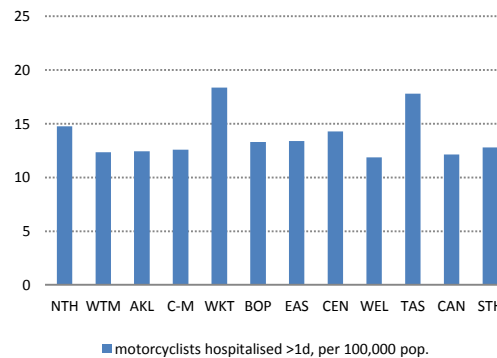
Overall outcomes: injuries



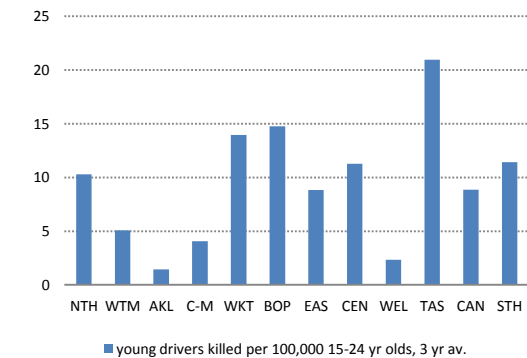
Alcohol and drugs



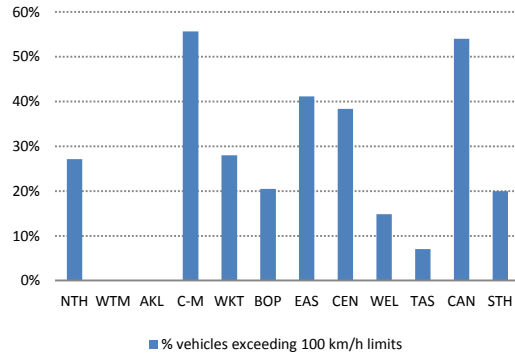
Motorcycle safety



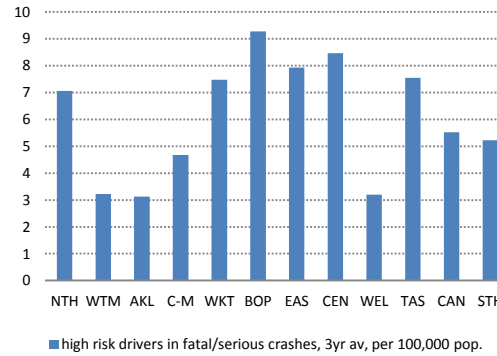
Young driver safety



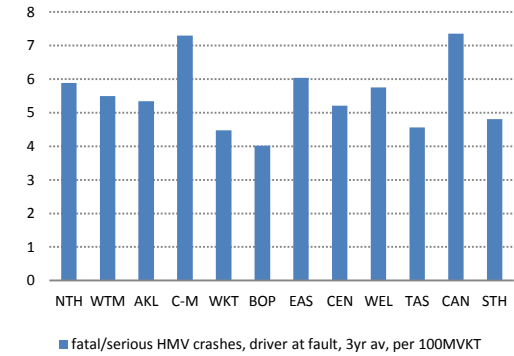
Speed



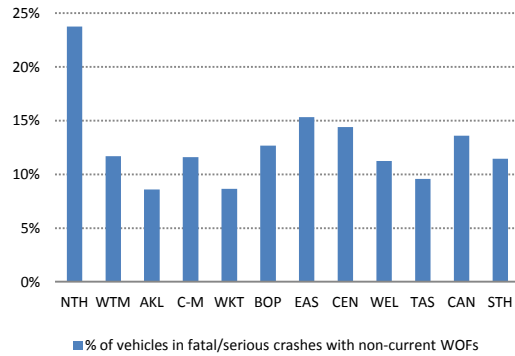
High risk drivers



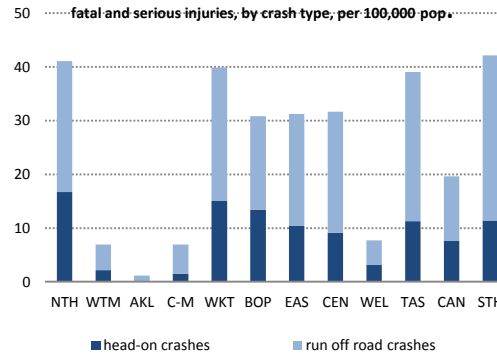
Heavy vehicles



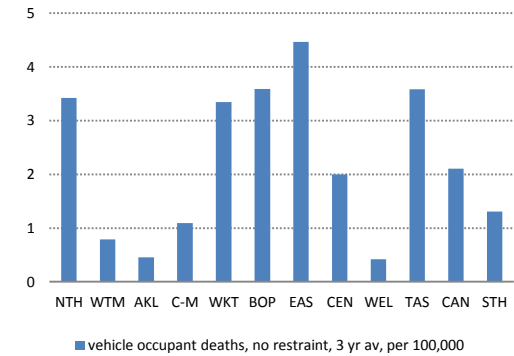
New cars and light commercials



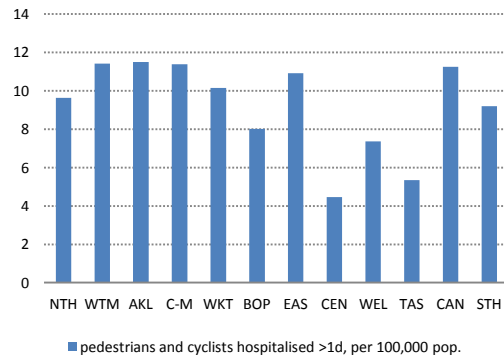
Roads and roadsides



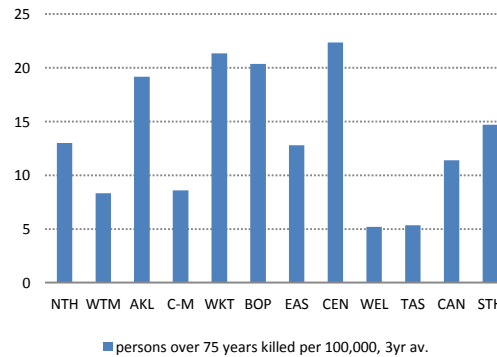
Restraints



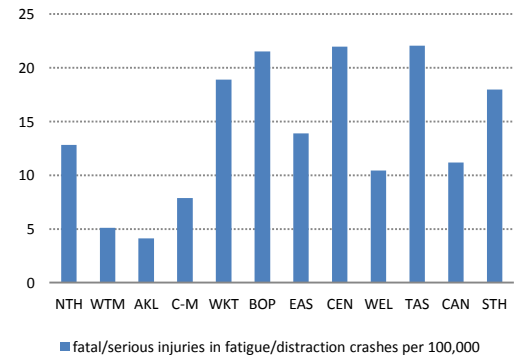
Walking and cycling



Older road users

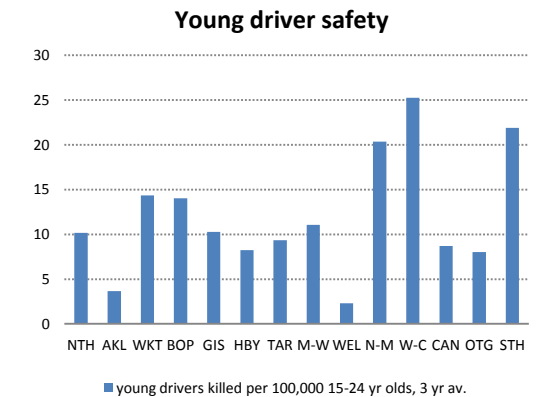
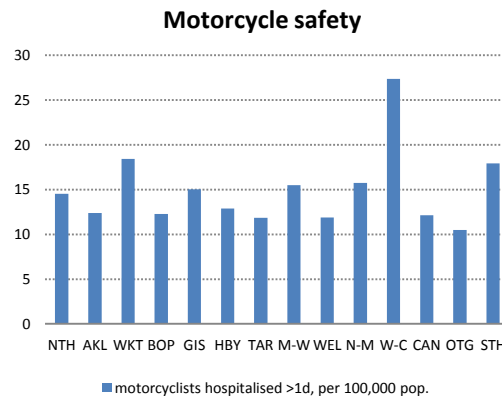
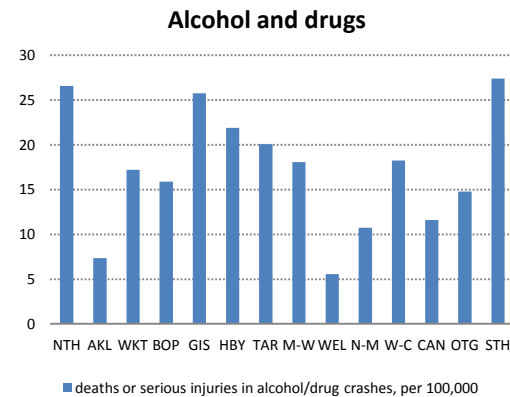
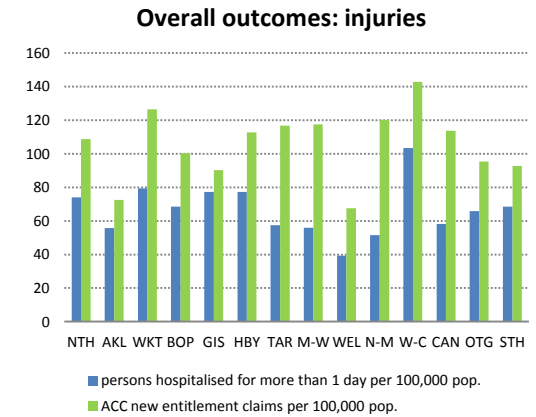
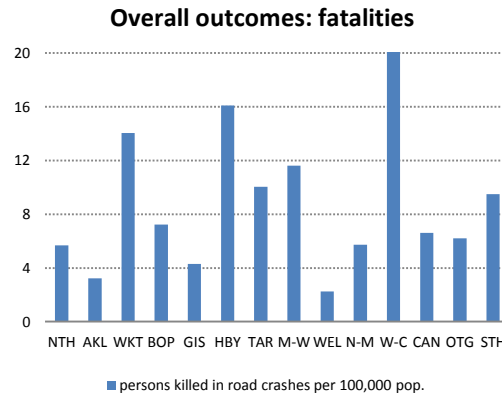
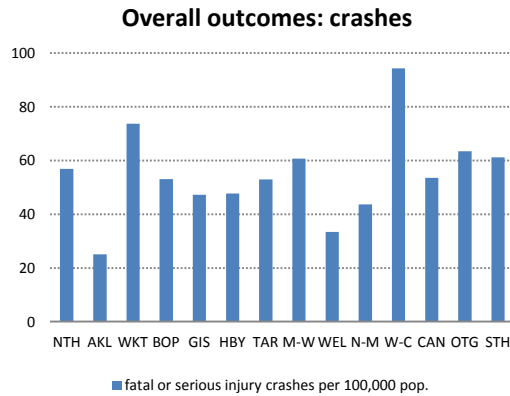


Fatigue and distraction

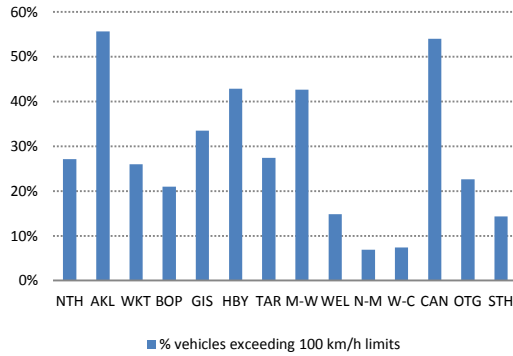


ROAD SAFETY OUTCOMES BY LOCAL GOVERNMENT REGION

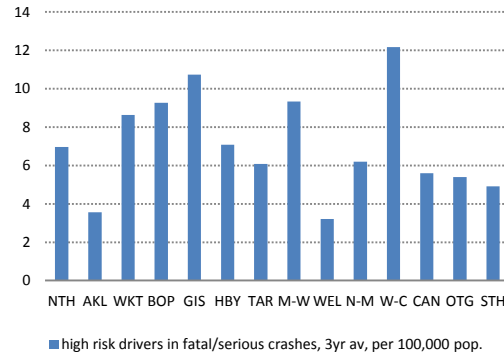
The following charts and tables show headline outcome measures for the 12 months to the end of the latest available quarter. Some alternative measures are shown if the national measure is not available at a regional or police district level. In cases where the numbers involved are too small to give meaningful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



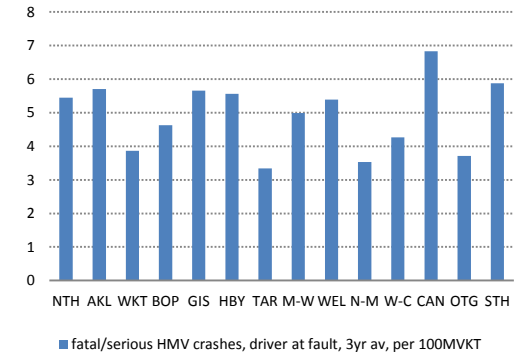
Speed



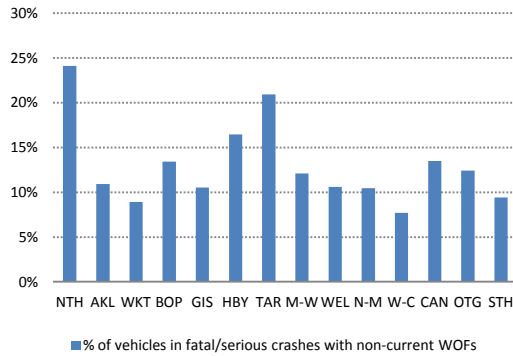
High risk drivers



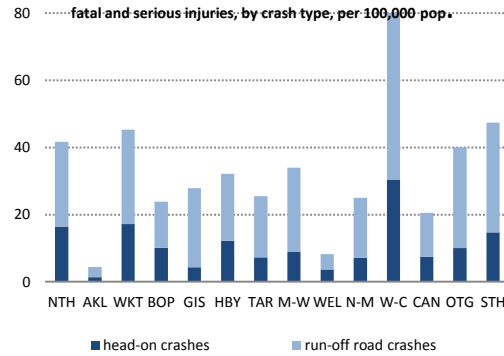
Heavy vehicles



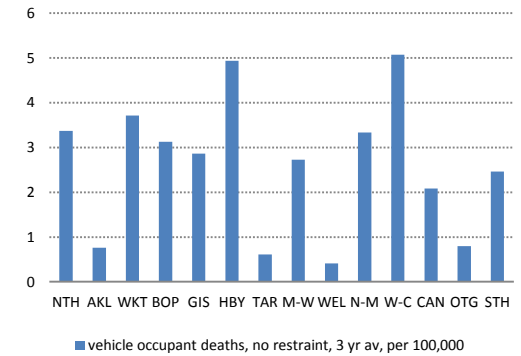
New cars and light commercials



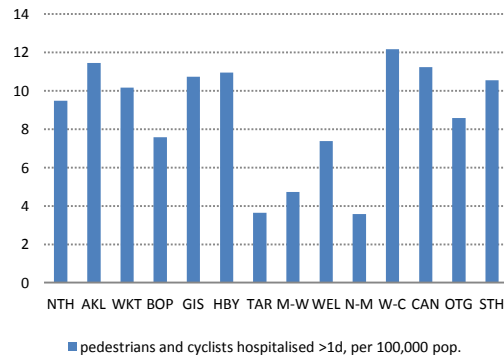
Roads and roadsides



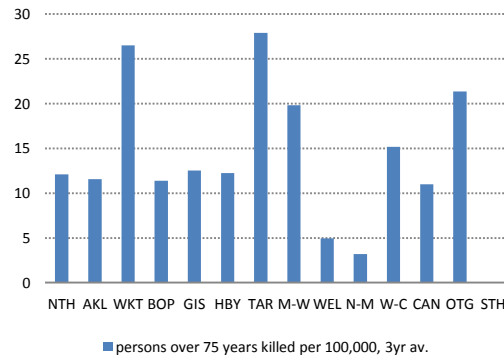
Restraints



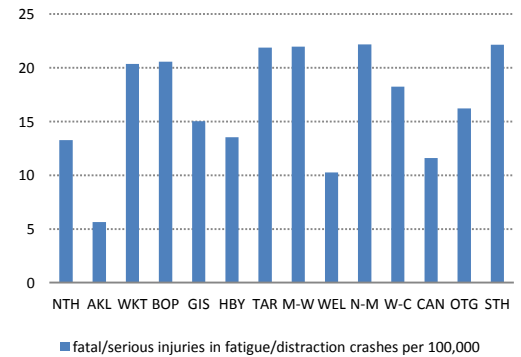
Walking and cycling



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	56	23	27	26	71	58	48	59	33	56	53	62		44
	persons killed in road crashes, per 100,000 population	6	3	3	4	13	10	13	11	2	10	7	7		7
	persons hospitalised more than 1 day (>1d) , per 100000	75	56	56	56	79	70	77	56	39	61	58	67		60
	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 popn.	25	7	5	11	17	16	23	18	5	12	12	19		12
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	10	5	1	4	14	15	9	11	2	21	9	11		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 popn.	7	3	3	5	7	9	8	8	3	8	6	5		6
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	17	2	0	2	15	13	10	9	3	11	8	11		7
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	24	5	1	5	25	17	21	23	5	28	12	31		13
	deaths + serious injuries, intersection crashes, per 100,000 popn.	9	8	12	10	24	15	17	25	12	13	23	21		16
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	7	6	11	5	12	13	8	6	12	8	14	12		10
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	12	13	18	13	13	14	12	18	12	13		13
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFS	24%	12%	9%	12%	9%	13%	15%	14%	11%	10%	14%	11%		12%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	13	5	4	8	19	22	14	22	10	22	11	18		13
Heavy vehicles	fatal/serious hmv at fault crashes, 3yr avg, per 100m VKT	6	5	5	7	4	4	6	5	6	5	7	5		5
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	10	11	11	11	10	8	11	4	7	5	11	9		10
Older users	persons over 75 years killed, per 100,000 popn, 3yr avg.	13	8	19	9	21	20	13	22	5	5	11	15		14
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	3.4	0.8	0.5	1.1	3.3	3.6	4.5	2.0	0.4	3.6	2.1	1.3		2

REGIONAL ROAD SAFETY OUTCOMES		NTH	AKL	WKT	BOP	GIS	HBY	TAR	M-W	WEL	N-M	W-C	CAN	OTG	STH
Overall	fatal or serious injury crashes per 100,000 population	57	25	74	53	47	48	53	61	33	44	94	54	63	61
	persons killed in road crashes, per 100,000 population	6	3	14	7	4	16	10	12	2	6	27	7	6	9
	persons hospitalised more than 1 day (>1d) , per 100,000 popn.	74	56	79	69	77	77	57	56	39	51	103	58	66	68
	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 popn.	27	7	17	16	26	22	20	18	6	11	18	12	15	27
Youth	young drivers killed, per 100,000 15-24 year olds, 3-year average	10	4	14	14	10	8	9	11	2	20	25	9	8	22
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 popn.	7	4	9	9	11	7	6	9	3	6	12	6	5	5
Roads and roadsides	deaths + serious injuries in head-on crashes, per 100,000 popn.	16	1	17	10	4	12	7	9	4	7	30	7	10	15
	deaths + serious injuries, run-off road crashes, per 100,000 popn.	25	3	28	14	24	20	18	25	5	18	58	13	30	33
	deaths + serious injuries, intersection crashes, per 100,000 popn.	9	10	23	14	26	14	26	25	12	15	3	23	20	21
	deaths + serious injuries in ped/cyclist crashes, per 100,000 popn.	8	7	12	13	6	8	5	6	11	6	12	14	13	11
Motorcycles	motorcyclists hospitalised >1d, per 100,000 population	15	12	18	12	15	13	12	15	12	16	27	12	10	18
Light vehicles	% of vehicles in fatal/serious crashes with non-current WoFS	24%	11%	9%	13%	11%	16%	21%	12%	11%	10%	8%	13%	12%	9%
Fatigue	fatal/serious injuries in fatigue/distraction crashes, per 100,000 popn.	13	6	20	21	15	14	22	22	10	22	18	12	16	22
Heavy vehicles	fatal/serious HMV at fault crashes, 3yr avg, per 100m VKT	5	6	4	5	6	6	3	5	5	4	4	7	4	6
Walk/cycle	pedestrians and cyclists hospitalised >1d, per 100,000 population	9	11	10	8	11	11	4	5	7	4	12	11	9	11
Older users	persons over 75 years killed, per 100,000 popn., 3yr avg.	12	12	26	11	13	12	28	20	5	3	15	11	21	0
Restraints	occupant deaths, restraints not worn, last 3 yrs, per 100,000 popn.	3.4	0.8	3.7	3.1	2.9	4.9	0.6	2.7	0.4	3.3	5.1	2.1	0.8	2.5