

Basic Cost-Effectiveness Analysis - for Delaware

<http://www.cdc.gov/MVIP/Default.aspx>

description of interventions

<http://www.cdc.gov/motorvehiclesafety/calculator/factsheet/>

		Effectiveness
Currently Implemented	Intervention Name	# of Fatalities Reduced
x	Red Light Camera	3
x	Primary Enforcement Seat Belt Law	5
x	Sobriety Checkpoints	3
x	Vehicle Impoundment	4
x	License Plate Impound	4
x	Alcohol Interlocks	3
x	Bicycle Helmet	0
	Speed Camera	5
	Increased Seat Belt Fine	5
	Saturation Patrols	6
	Limits on Diversion	1
	Seat Belt Enforcement Campaign	4
	Motorcycle Helmet	2
	In Person Renewal	1
Total for currently implemented		22
Total for all		46

Note: adapted from MVIP tables to distinguish fines and fee

	B to individuals	C to government
# of Injuries Reduced	Benefit (\$/year) - Health	Cost (\$/year) - Implementation
234	9,201,000	1,335,000
480	17,317,000	1,087,000
253	9,801,000	801,000
143	9,149,000	288,000
127	8,126,000	136,000
113	7,223,000	133,000
77	2,351,000	92,000
406	16,299,000	1,608,000
494	17,812,000	-
227	14,504,000	741,000
52	3,310,000	290,000
371	13,359,000	424,000
612	16,698,000	374,000
98	3,769,000	189,000
1,427	63,168,000	3,872,000
3,687	148,919,000	7,498,000

nes and fees from implementation cost

Not included in BCA

T from individuals to government		Benefit-Cost Analysis	
Transfer (\$/year) - Fines & Fees	Net Benefits (\$/year)	Benefit-Cost Ratio	
1,448,000	7,866,000	6.89	
359,000	16,230,000	15.93	
222,000	9,000,000	12.24	
126,000	8,861,000	31.77	
43,000	7,990,000	59.75	
-	7,090,000	54.31	
-	2,259,000	25.55	
5,120,000	14,691,000	10.14	
327,000	17,812,000	Y	
207,000	13,763,000	19.57	
89,000	3,020,000	11.41	
73,000	12,935,000	31.51	
12,000	16,324,000	44.65	
-	3,580,000	19.94	
2,198,000	59,296,000	16.88	
8,026,000	141,421,000	343.66	

# Cost of Motor Vehicle Crash Deaths

<http://www.cdc.gov/motorvehiclesafety/statecosts/index.html>

year: 2013 (but based on underlying 2010 data)

units: millions\$

By type of road user

State	Medical costs	Work loss costs	Total costs	MV occupants (non-motorcycle)
AL			1200	
AK			72	
AZ			1050	
AR			683	
CA			4480	
CO			647	
CT			407	
DE	2	137	139	28
DC			34	
FL			3020	
GA			1630	
HI			149	
ID			303	
IL			1410	
IN			1070	
IA			399	
KS			449	
KY			798	
LA			1010	
ME			180	
MD			690	
MA			438	
MI			1200	
MN			521	
MS			861	
MO			981	
MT			299	
NE			311	
NV			356	
NH			167	
NJ			689	
NM			433	
NY			1590	
NC			1710	
ND			162	
OH			1330	
OK			902	
OR			426	
PA			1600	

RI	84
SC	1050
SD	177
TN	1250
TX	4890
UT	268
VT	86
VA	947
WA	654
WV	397
WI	692
WY	127

Fatalities	MV occupants (non-motorcycle)
DE	33
DE- average cost per fatality	\$ 848,485

By age group

Motorcyclists	Pedestrians	Bicyclists	Other	Children (<15)	Teens (15-19)	Young adults (20-34)
29	29	n/a	52	4	17	48

Motorcyclists	Pedestrians	Bicyclists	Other	Children (<15)	Teens (15-19)	Young adults (20-34)
20	25	1	0	2	3	18
\$ 1,450,000	\$ 1,160,000	#VALUE!	#DIV/0!	\$ 2,000,000	\$ 5,666,667	\$ 2,666,667

Adults (35-64) Older adults (65+)

65

5



Adults (35-64)	Older adults (65+)
36	14
\$ 1,805,556	\$ 357,143