Louisiana Traffic Records Data Report 2013

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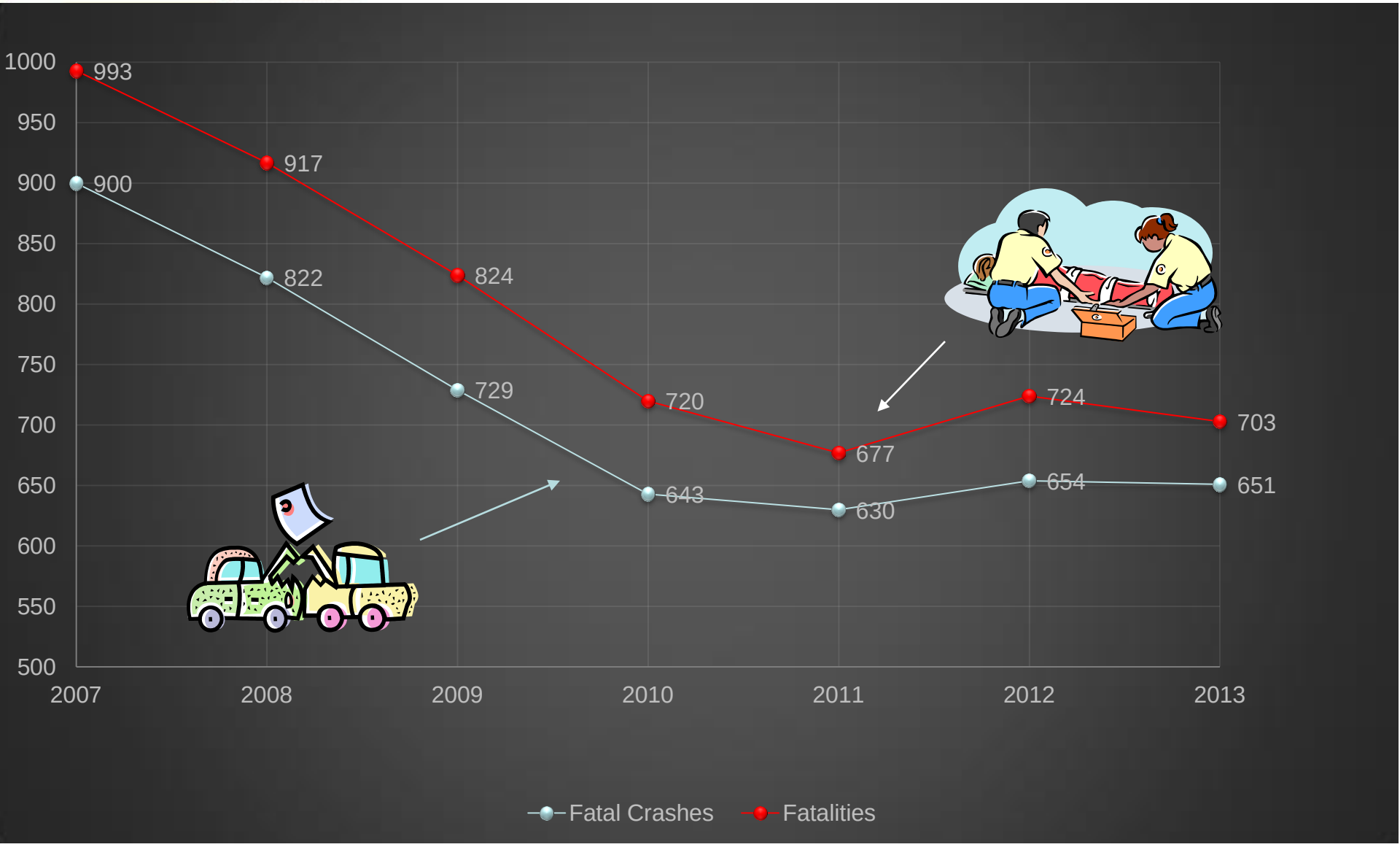
Dr. Helmut Schneider

Highway Safety Research Group

Fatalities and Fatal Crashes decreased in 2013



Fatalities per 100 Million Miles

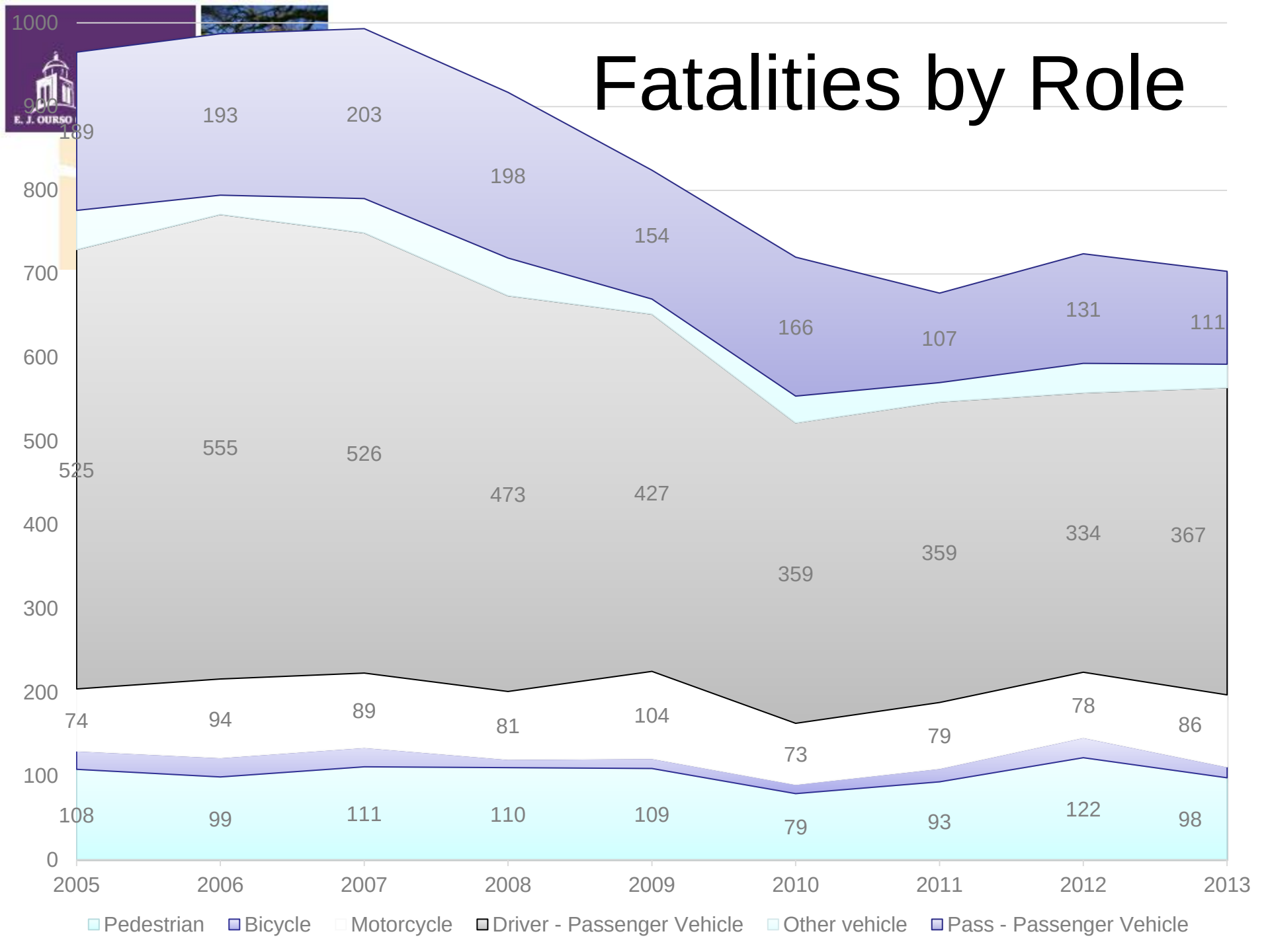
1 death per 2728 times around the world

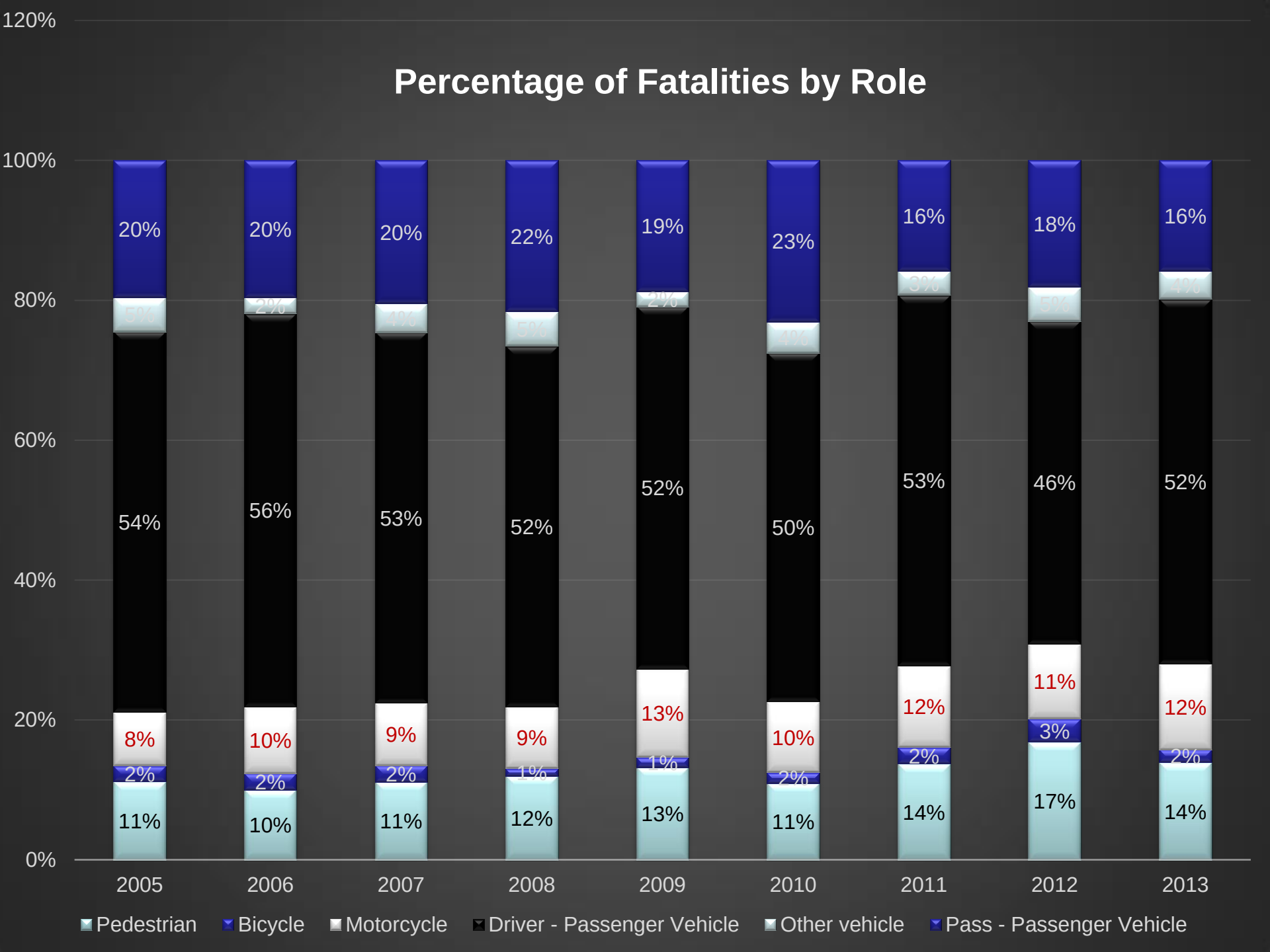
	2007	2008	2009	2010	2011	2012	2013
LA	2.04	2.04	1.84	1.58	1.46	1.55	1.47
US	1.36	1.26	1.15	1.11	1.09	1.16	1.11
Difference	0.68	0.78	0.69	0.47	0.37	0.39	0.36

2.50
2.00
1.50
1.00
0.50
0.00

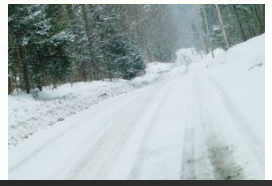
LA US

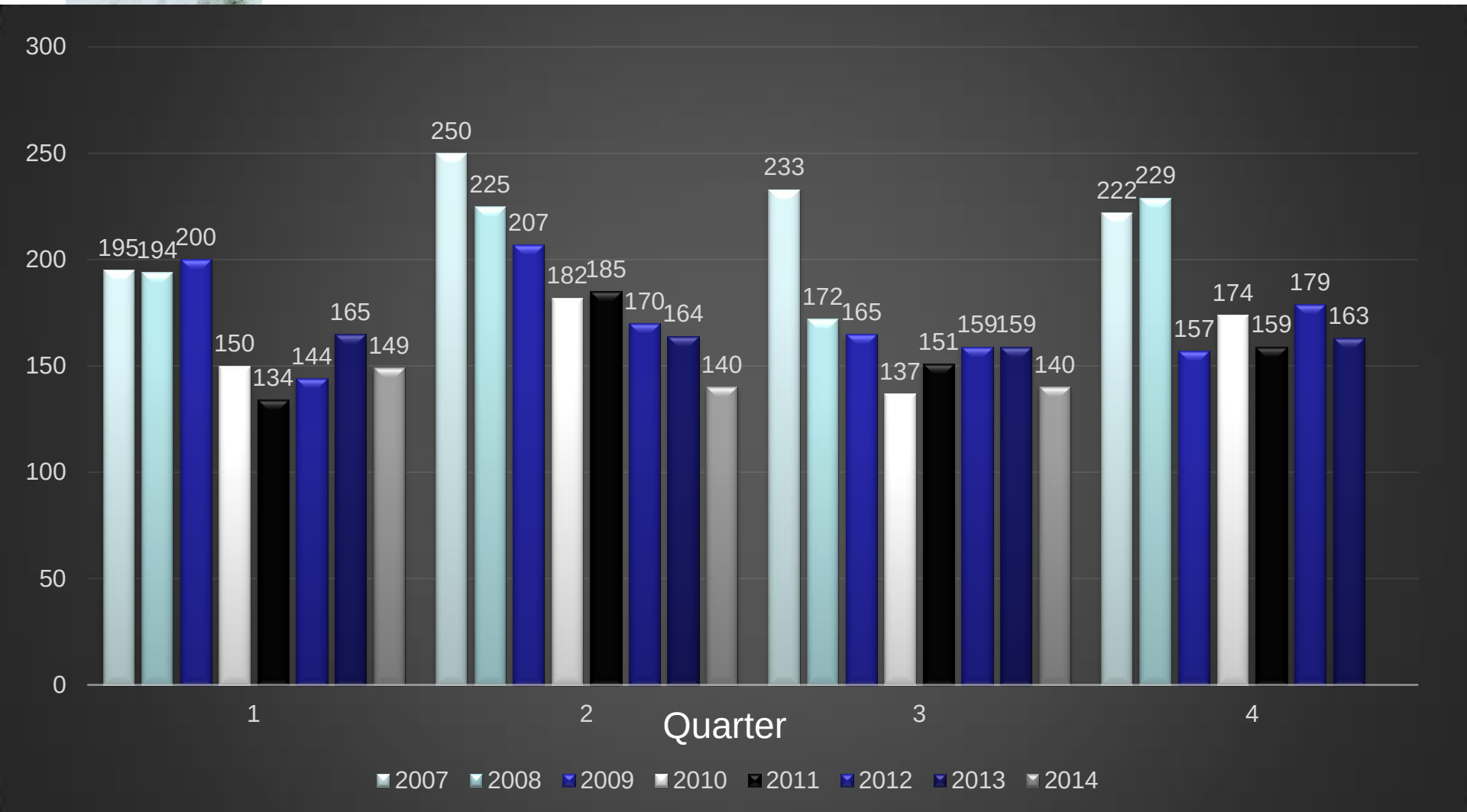
Fatalities by Role

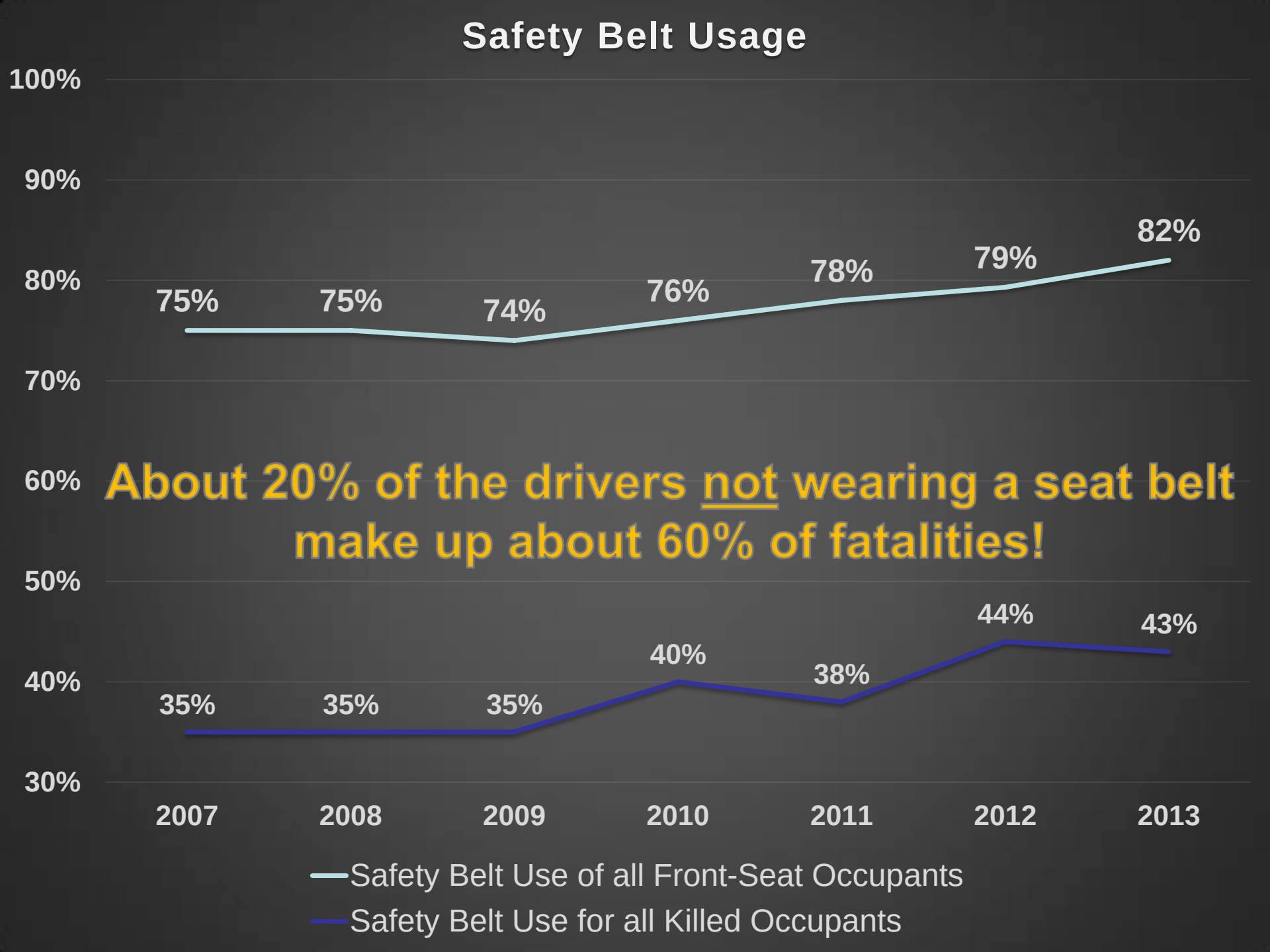


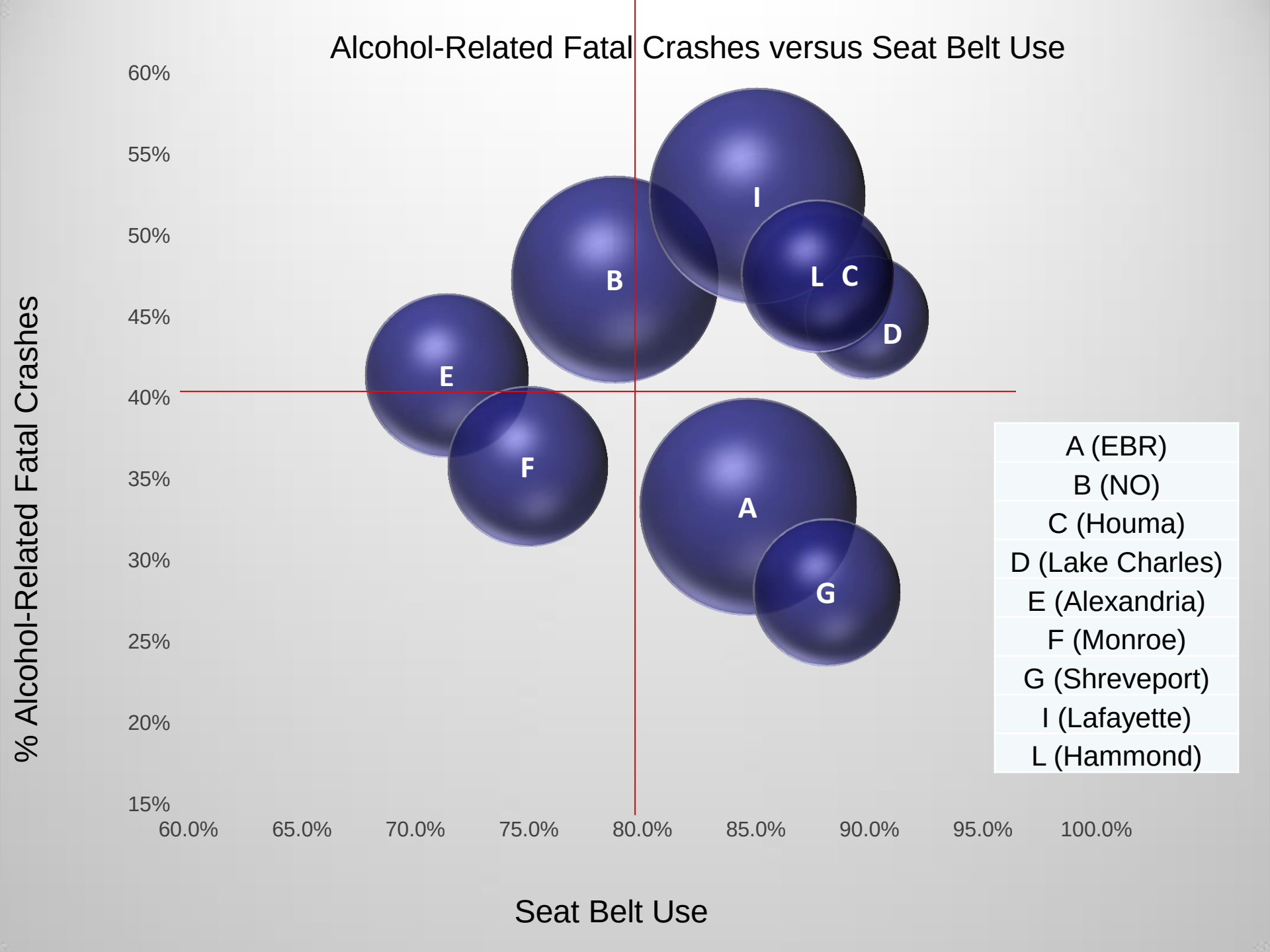

Percentage of Fatalities by Role
120%
100%
80%
60%
40%
20%
0%
2005
2006
2007
2008
2009
2010
2011
2012
2013
20%
20%
20%
22%
19%
23%
16%
18%
16%
5%
2%
4%
5%
2%
4%
3%
5%
4%
54%
56%
53%
52%
52%
50%
53%
46%
52%
8%
10%
9%
9%
13%
10%
12%
11%
12%
2%
2%
2%
1%
1%
2%
2%
3%
2%
11%
10%
11%
12%
13%
11%
14%
17%
14%
Pedestrian
Bicycle
Motorcycle
Driver - Passenger Vehicle
Other vehicle
Pass - Passenger Vehicle

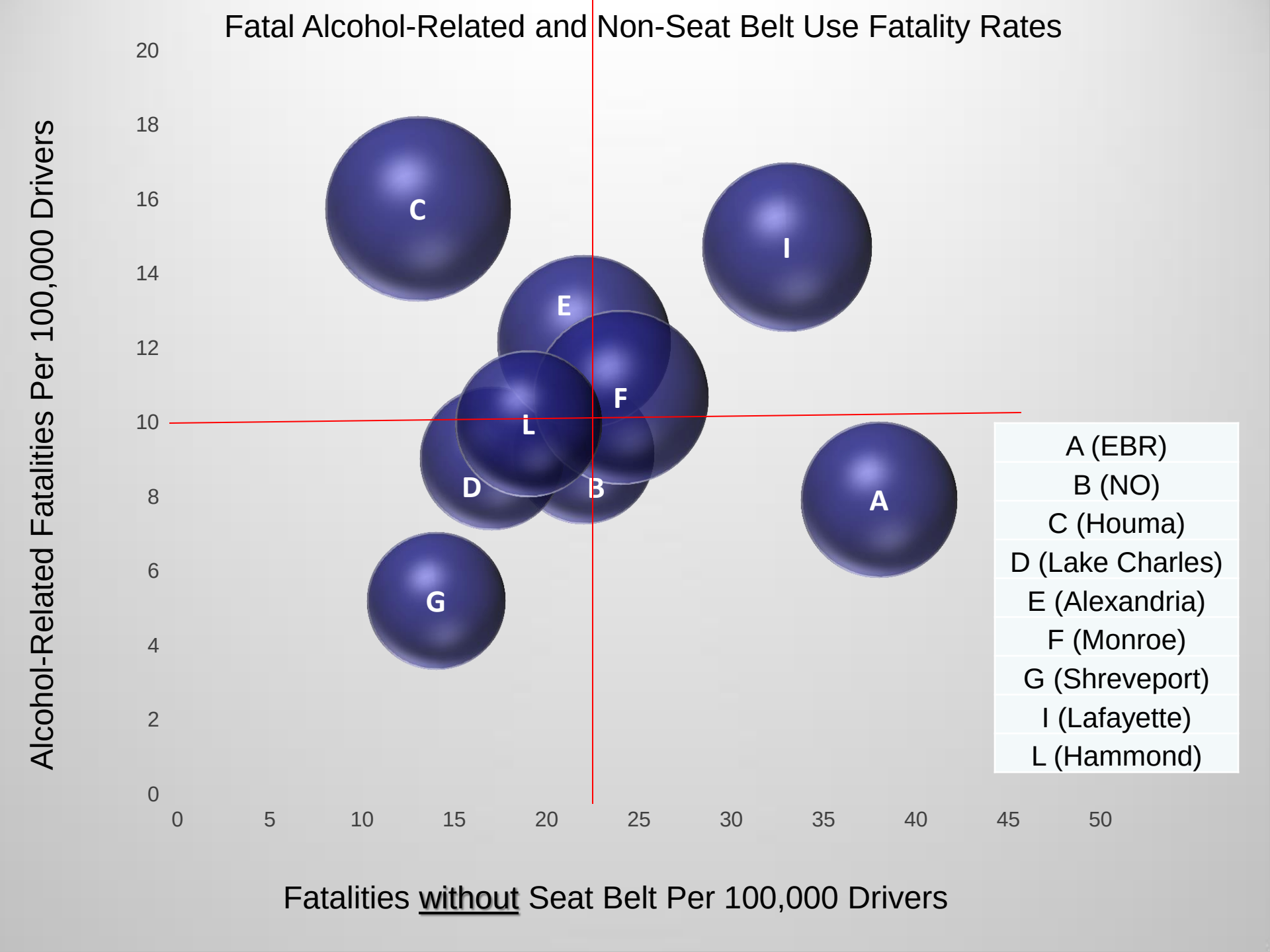
Fatal Crashes by Quarter 2007-2014



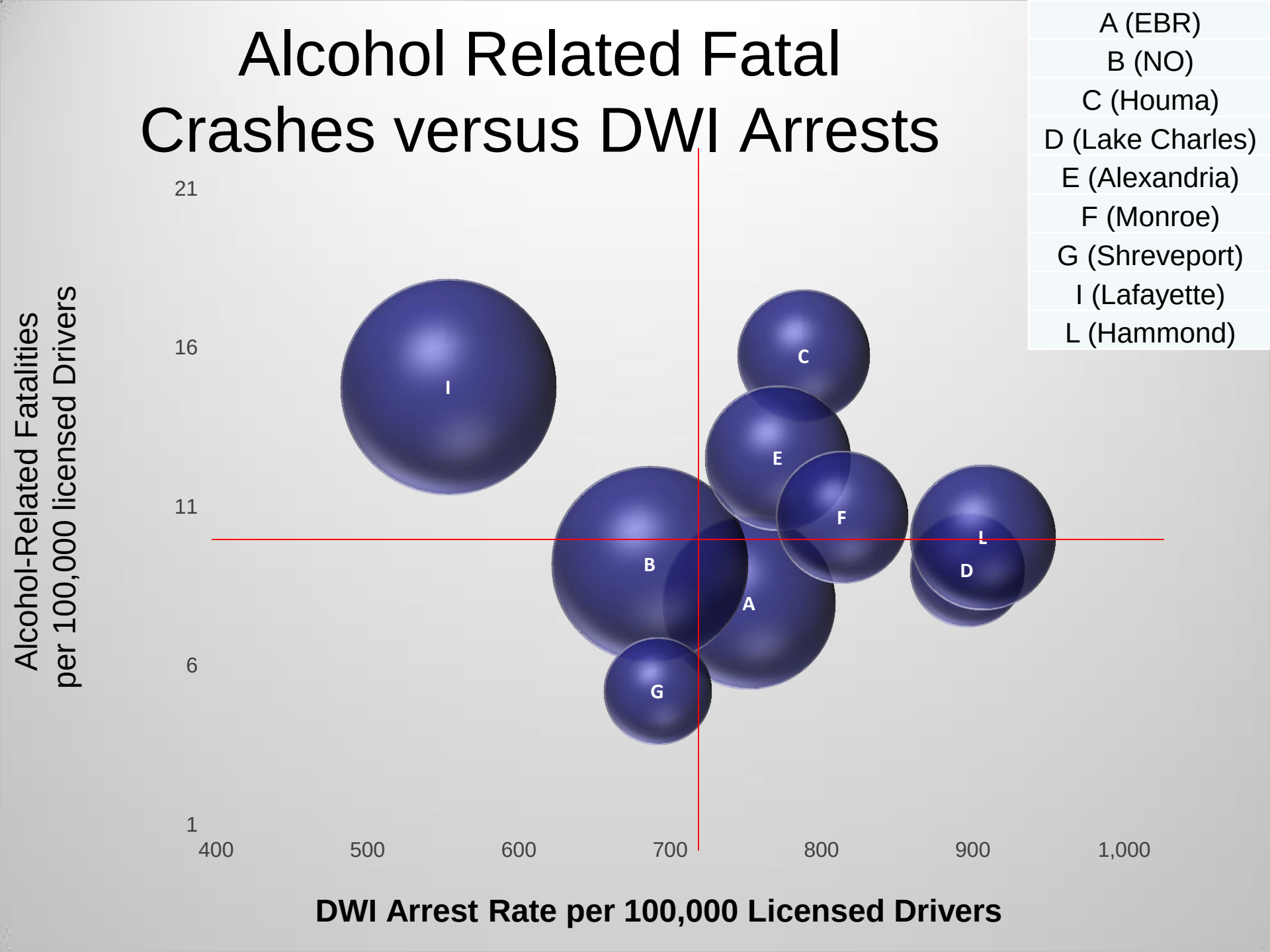



Safety Belt Usage
100%
90%
80%
70%
60%
50%
40%
30%
75%
75%
74%
76%
78%
79%
82%
35%
35%
35%
40%
38%
44%
43%
2007
2008
2009
2010
2011
2012
2013
About 20% of the drivers not wearing a seat belt make up about 60% of fatalities!
Safety Belt Use of all Front-Seat Occupants
Safety Belt Use for all Killed Occupants


Alcohol-Related Fatal Crashes versus Seat Belt Use
% Alcohol-Related Fatal Crashes
60%
55%
50%
45%
40%
35%
30%
25%
20%
15%
60.0%
65.0%
70.0%
75.0%
80.0%
85.0%
90.0%
95.0%
100.0%
Seat Belt Use
I
B
L
C
D
E
F
A
G
A (EBR)
B (NO)
C (Houma)
D (Lake Charles)
E (Alexandria)
F (Monroe)
G (Shreveport)
I (Lafayette)
L (Hammond)


Fatal Alcohol-Related and Non-Seat Belt Use Fatality Rates
Alcohol-Related Fatalities Per 100,000 Drivers
Fatalities without Seat Belt Per 100,000 Drivers
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
30
35
40
45
50
C
I
E
F
L
D
B
A
G
A (EBR)
B (NO)
C (Houma)
D (Lake Charles)
E (Alexandria)
F (Monroe)
G (Shreveport)
I (Lafayette)
L (Hammond)

Alcohol Related Fatal Crashes versus DWI Arrests



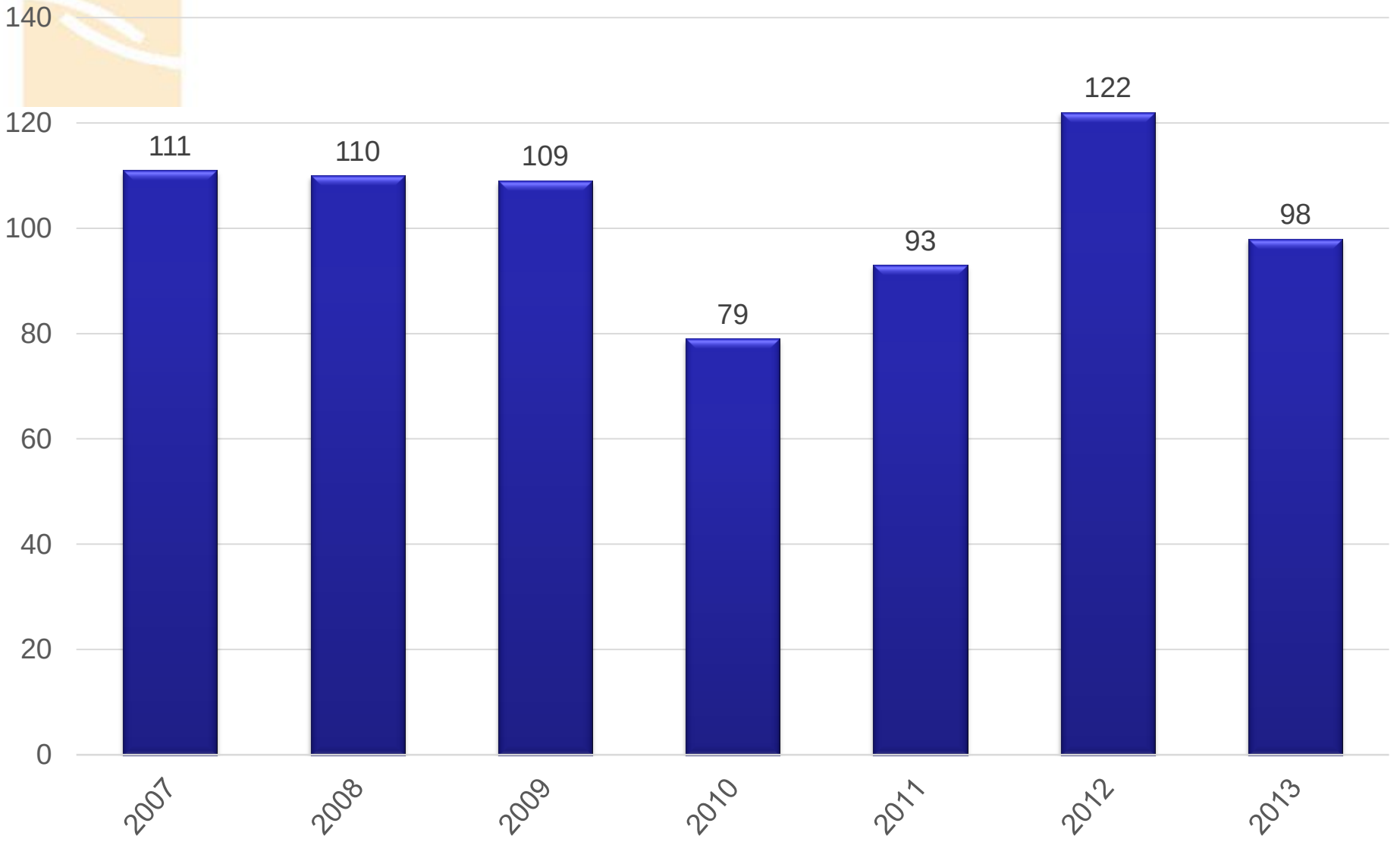
Fatalities By Troop Area and Difference to 2012

Troop	Number of Fatalities	Diff Fatalities
A (EBR)	123	(29)
B (NO)	112	25
C (Houma)	51	9
D (Lake Charles)	40	(12)
E (Alexandria)	70	(17)
F (Monroe)	67	18
G (Shreveport)	57	(13)
I (Lafayette)	122	12
L (Hammond)	61	(12)

Youth Fatality Rate (Per 100,000 Licensed Drivers)

	2007	2008	2009	2010	2011	2012	2013
Ages 15 - 17	58	56	21	48	43	47	49
Ages 18 - 20	91	60	61	53	47	51	40
Ages 21 - 24	77	77	59	44	45	44	50

Pedestrian Fatalities



Pedestrian Fatalities by Parish

Parish	2008	2009	2010	2011	2012	2013	5-year Average	Per Lic Driv
East Baton Rouge	8	9	13	10	11	11	11	4
Orleans	12	15	1	8	7	14	9	5
Jefferson	10	11	3	1	14	3	6	2
Calcasieu	3	9	6	2	8	2	5	3
Caddo	4	3	4	6	5	5	5	3
Lafayette	7	7	4	5	4	3	5	3
Rapides	5	3	3	6	5	3	4	5
St. Landry	1	1	1	4	6	6	4	6
Livingston	2	2		1	5	3	3	3
West Baton Rouge	1	2	1		5	1	2	13

Pedestrian Fatalities by Time of Day

Crash Hours	2008	2009	2010	2011	2012	2013	2014	5-year Average
Midnight -6am	32	35	27	19	34	34	31	29
6am-noon	13	11	10	12	12	12	6	10
Noon-6pm	16	14	9	11	13	13	11	11
6pm-midnight	49	49	33	51	62	62	50	52

Bicycle Fatalities

Year	Fatalities
2007	23
2008	10
2009	12
2010	11
2011	16
2012	24
2013	13

Interstate Fatalities

	2006	2007	2008	2009	2010	2011	2012	2013
Fatal Crashes	153	125	108	109	118	84	90	103
Fatalities	180	141	133	135	140	93	106	115

Cell Phone in Crashes

	Count all	Fatalities	Injuries
2005	2126	7	1325
2006	2283	10	1247
2007	2384	13	1274
2008	2274	13	1243
2009	2386	23	1170
2010	2141	3	1169
2011	2264	6	1192
2012	2213	13	1140

Count all Fatalities Injuries

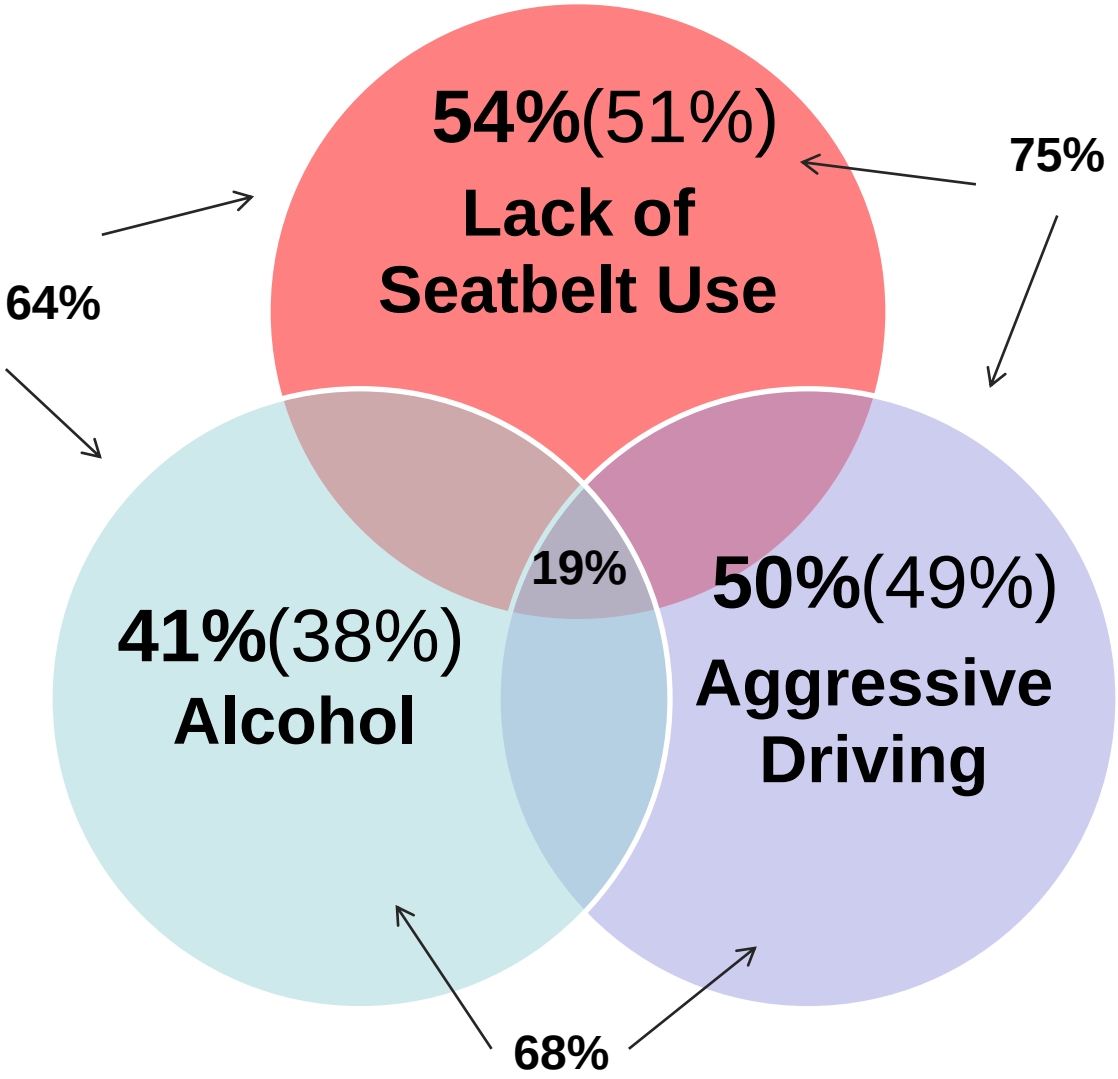
Other Trends

- Trains:
  - fatalities 5 (+1 from 2012)

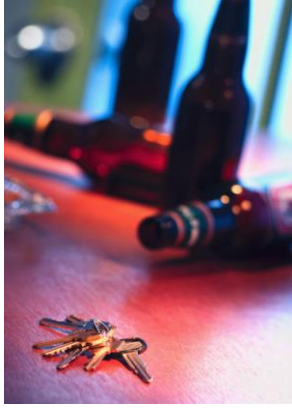
- Motorcycle:
  - fatalities 86 (+8 from 2012)

Pareto: The 80-20 Rule

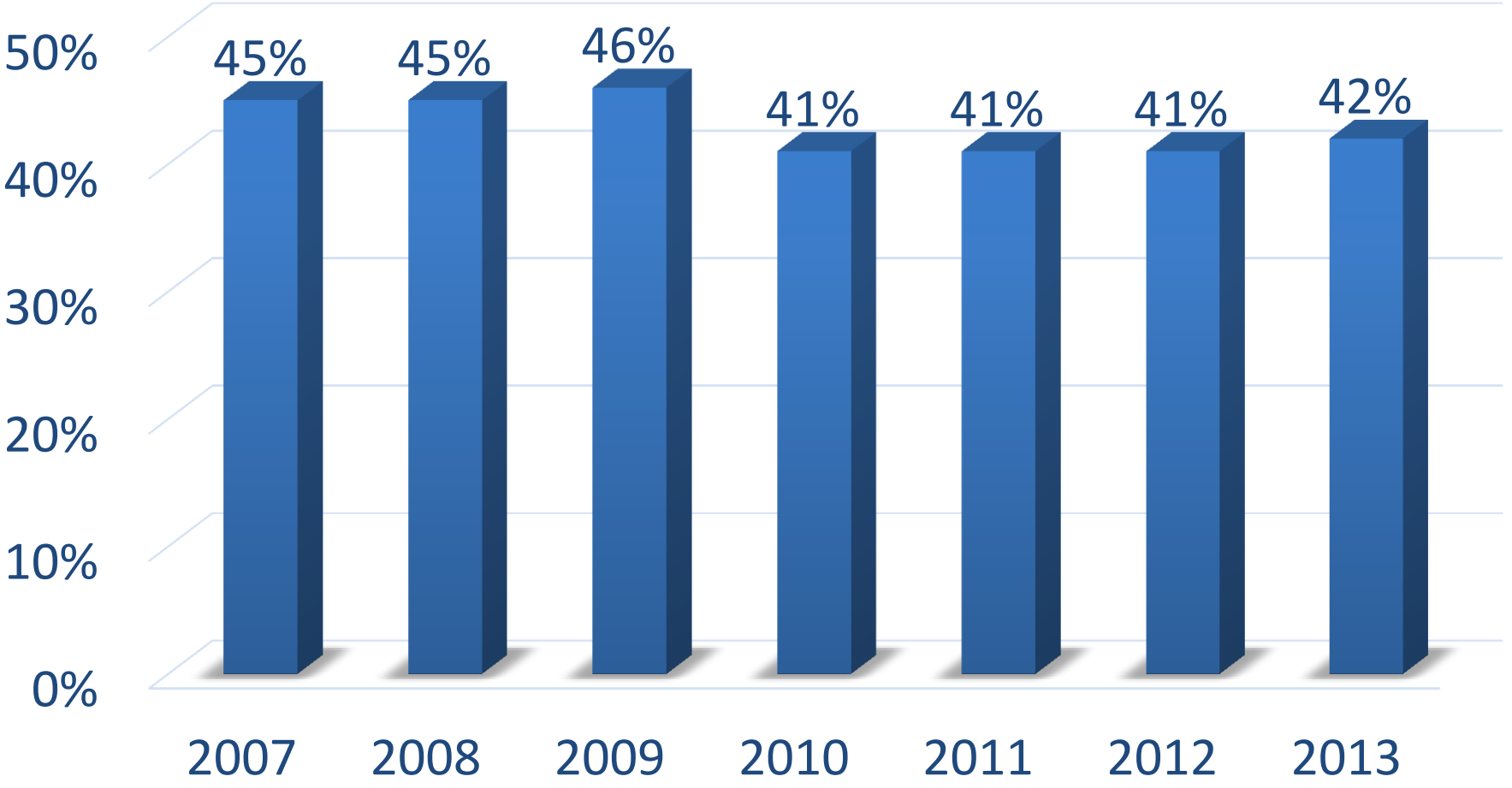
Over 80% (79%) of driver fatalities involved one of these three factors of the driver killed.



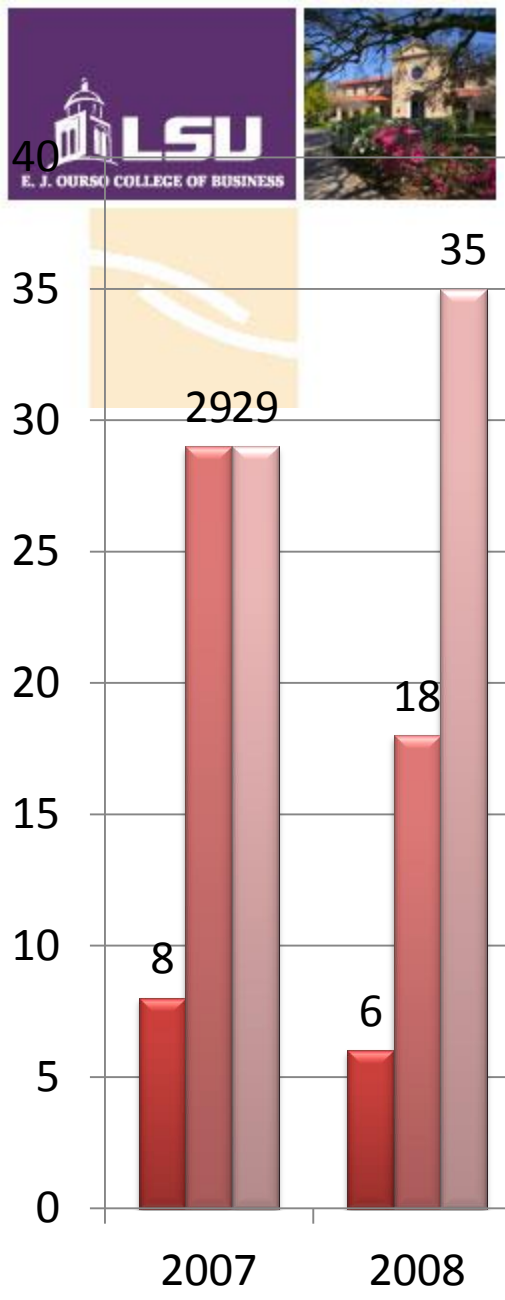
Includes only cars, PKUP, SUV and Vans. 2012 values in parentheses.



Percent Alcohol Related Fatalities (LA)

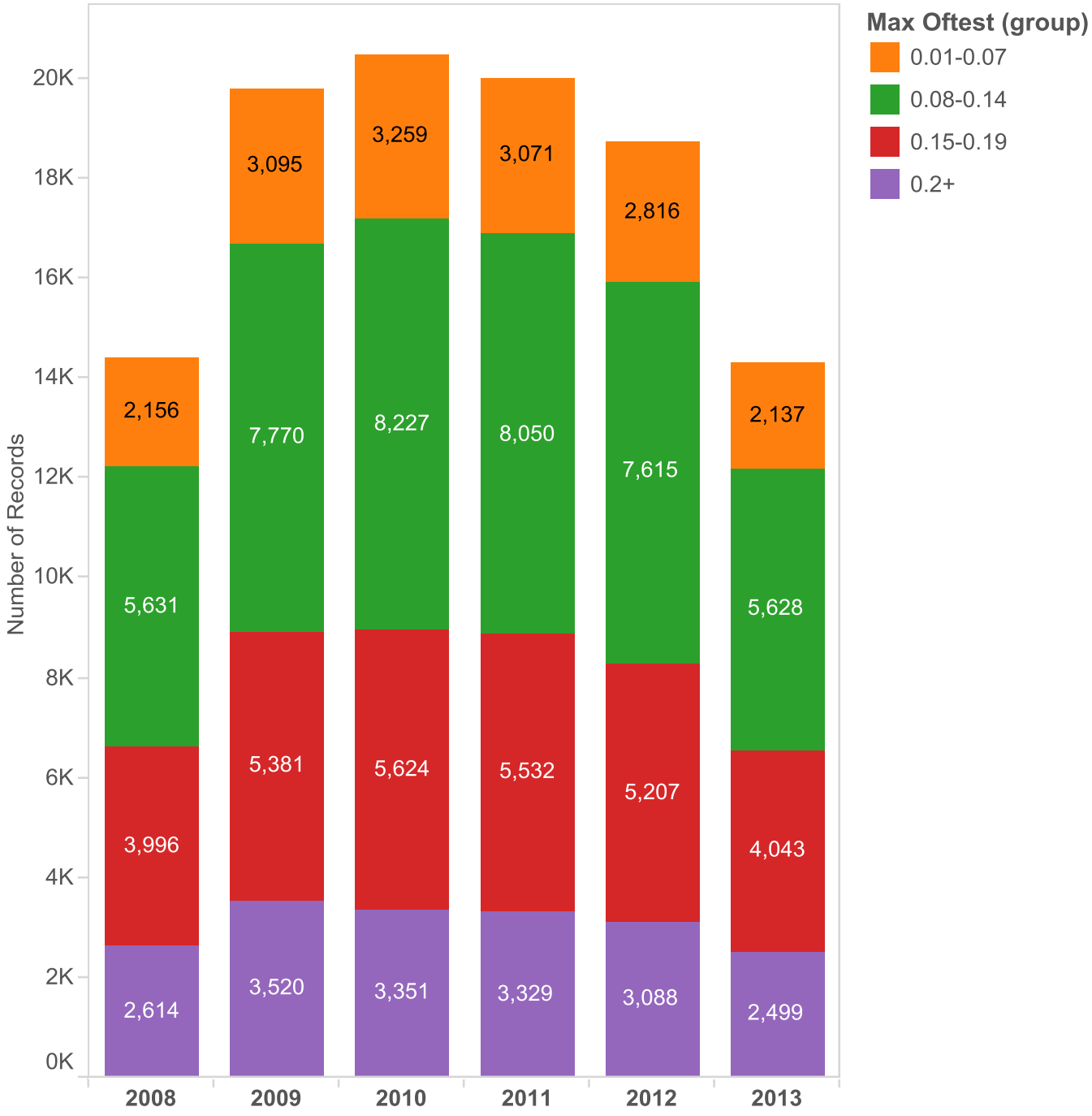


Youth Fatal Alcohol-Related Crash Rate



DWI COBRA

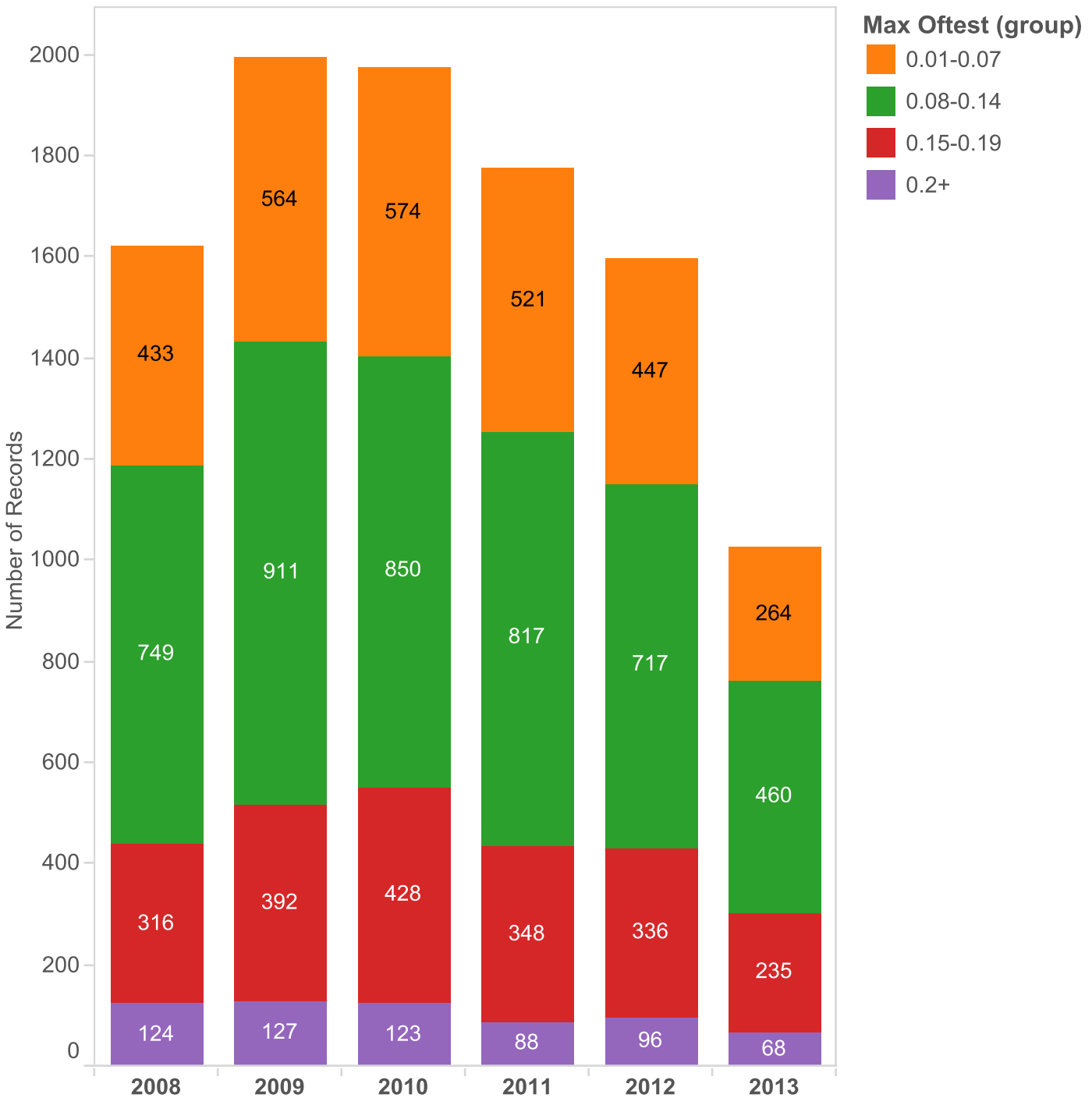
Arrests with BAC>0.01



Ages 15-20

DWI COBRA

Arrests with BAC>0.01



Alcohol Fatal Crashes by Troop Area

Troop	Non-Alcohol	Alcohol	Number of Fatalities	% Alcohol-Related Fatalities	Diff Fatalities 2013-2012	Diff Alcohol 2013-2012
A (EBR)	82	41	123	33%	(29)	(29)
B (NO)	59	53	112	47%	25	9
C (Houma)	27	24	51	47%	9	4
D (Lake Charles)	22	18	40	45%	(12)	(1)
E (Alexandria)	41	29	70	41%	(17)	(2)
F (Monroe)	43	24	67	36%	18	8
G (Shreveport)	41	16	57	28%	(13)	1
I (Lafayette)	58	64	122	52%	12	8
L (Hammond)	32	29	61	48%	(12)	3

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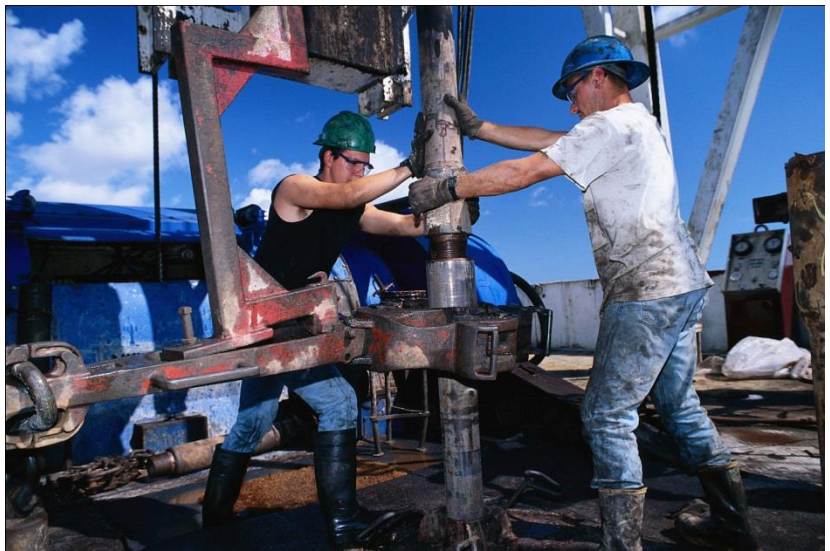
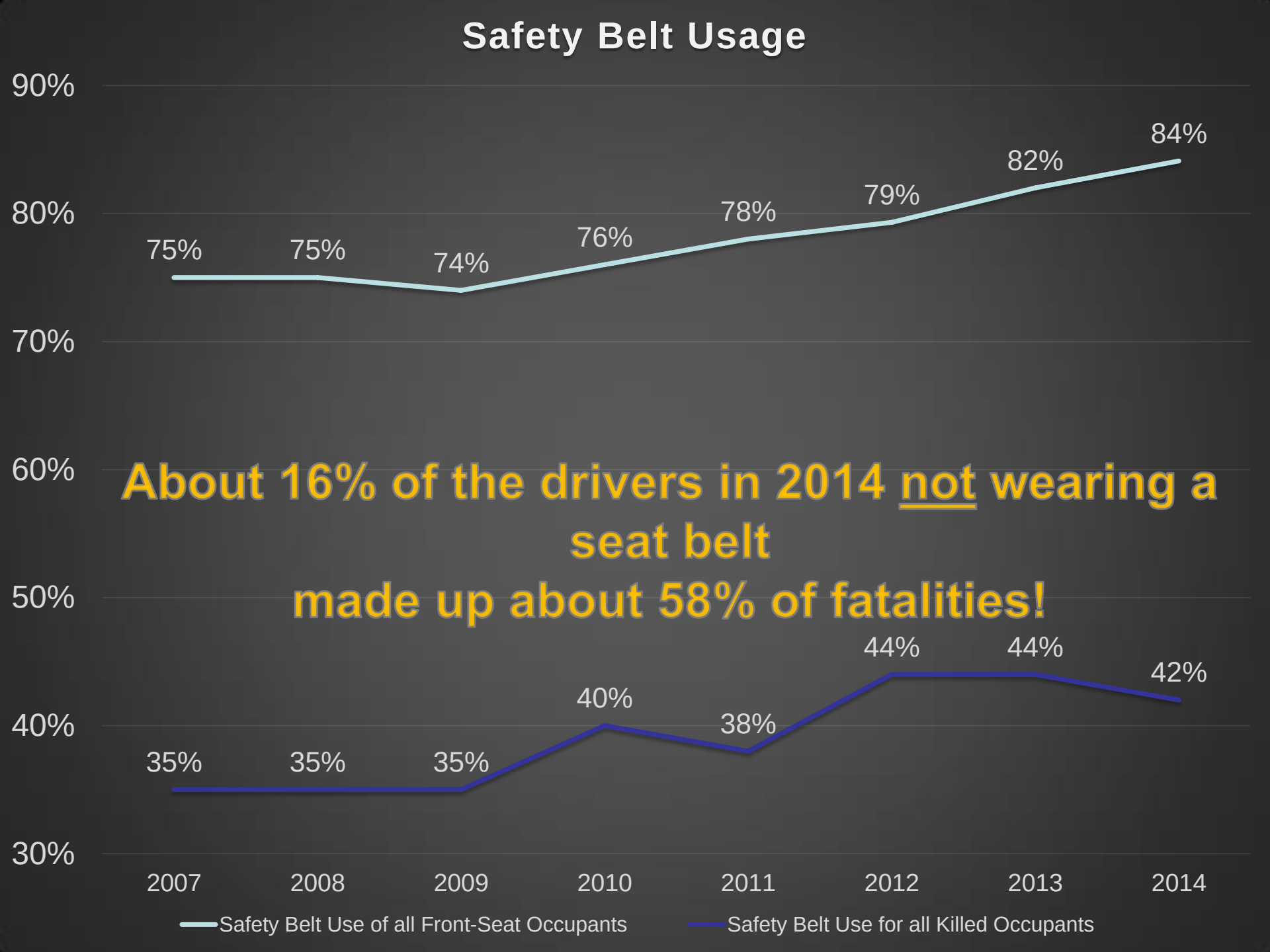
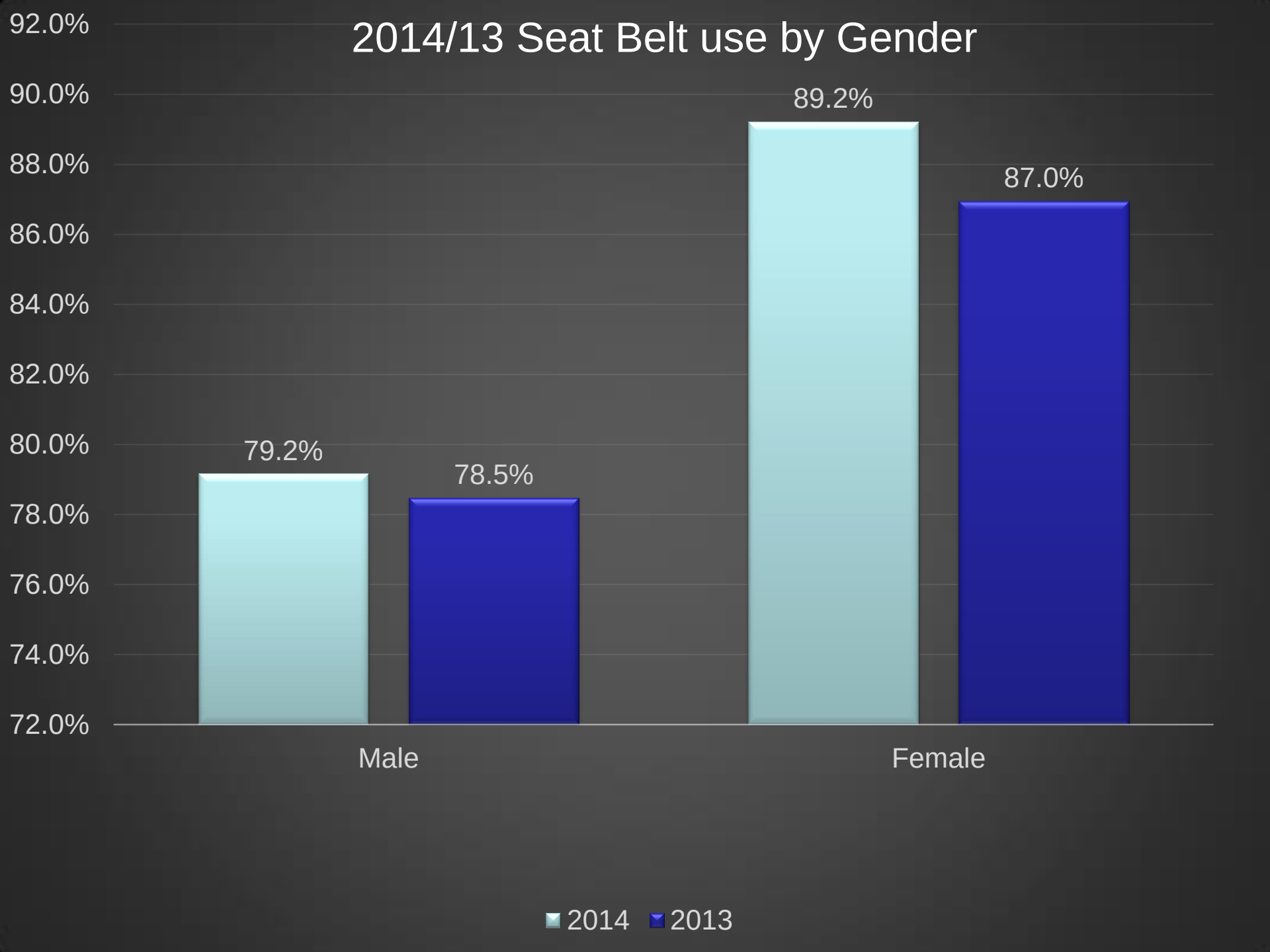
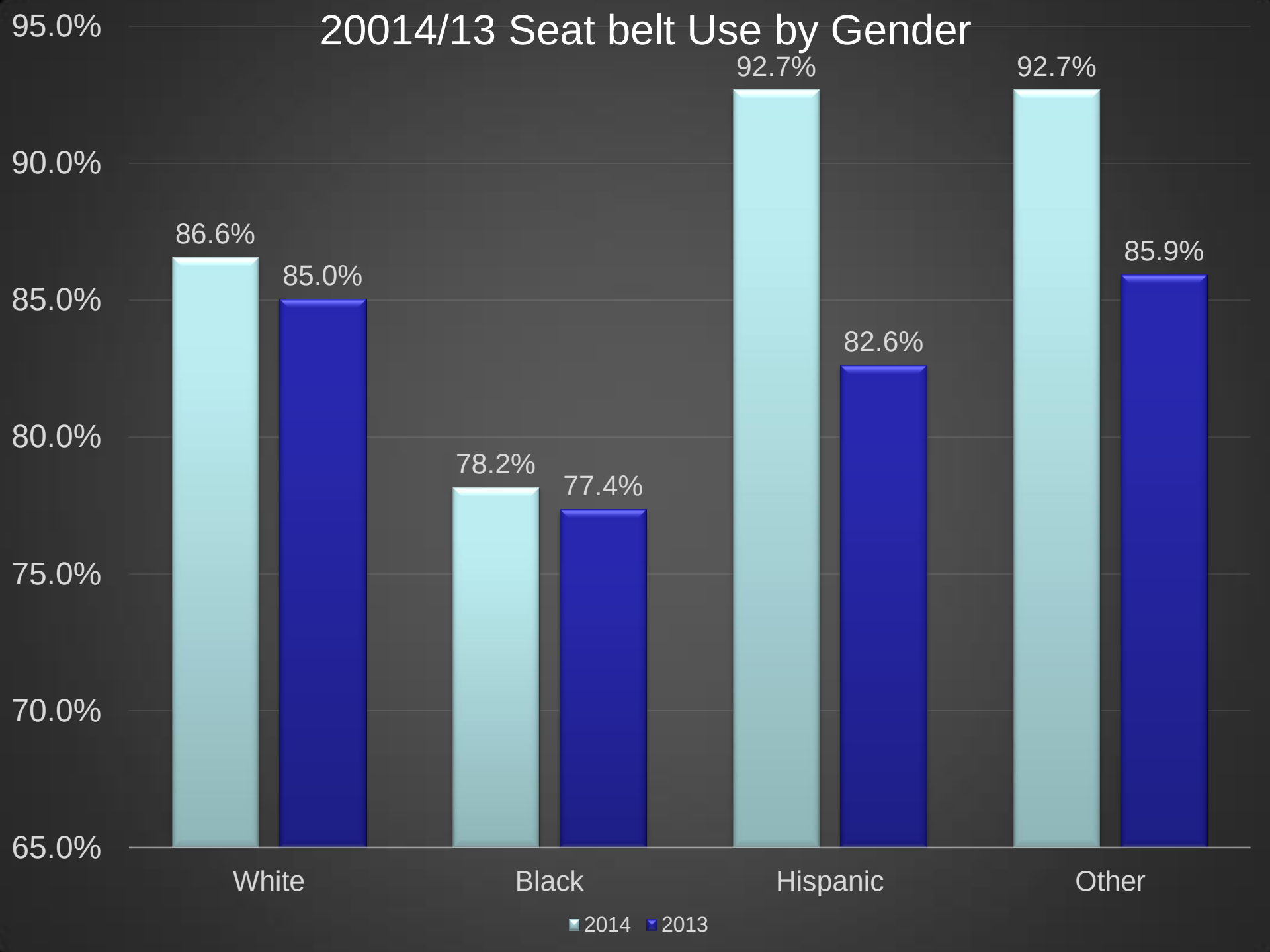
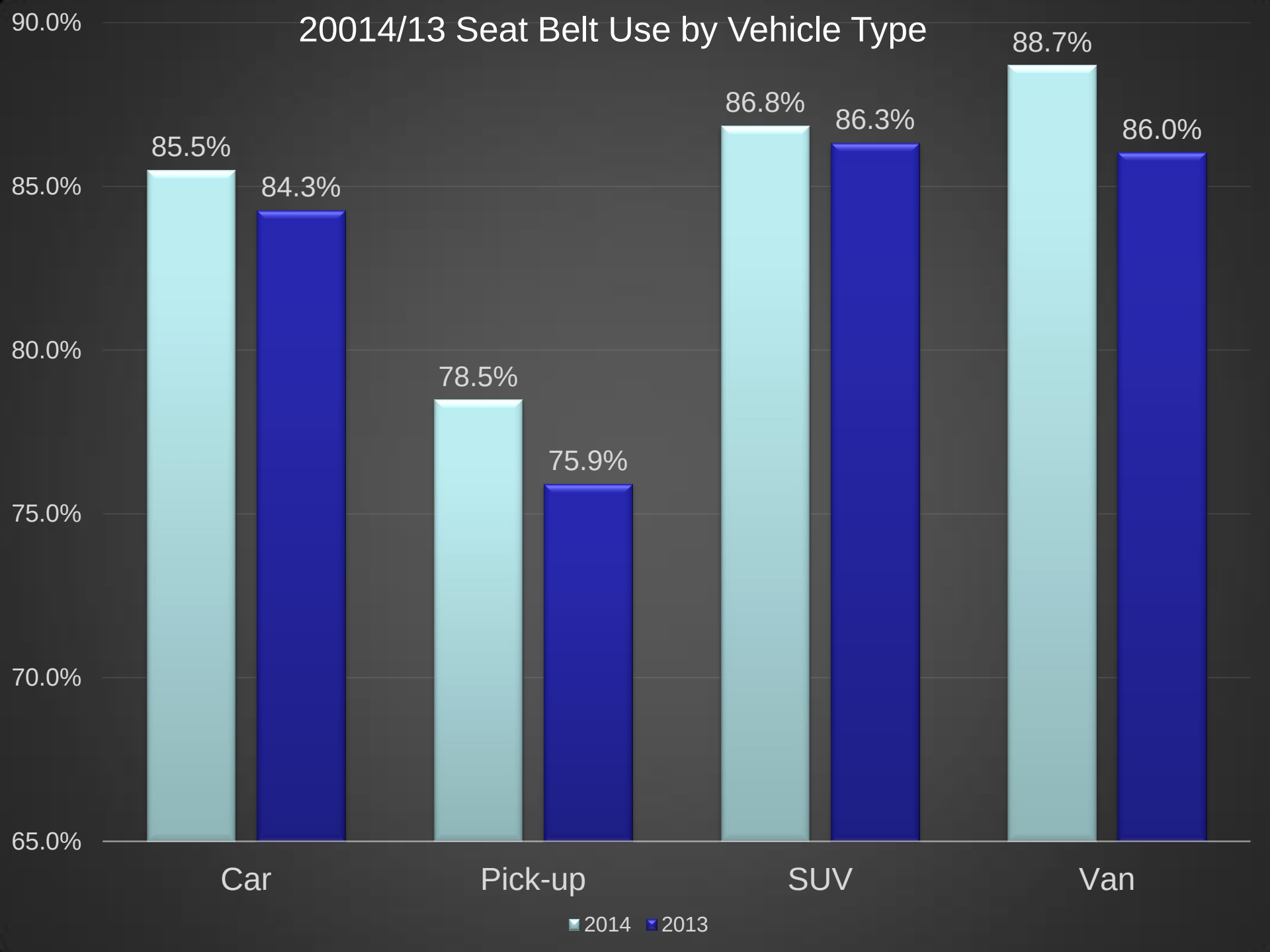



Safety Belt Usage
90%
80%
70%
60%
50%
40%
30%
75%
75%
74%
76%
78%
79%
82%
84%
35%
35%
35%
40%
38%
44%
44%
42%
About 16% of the drivers in 2014 not wearing a seat belt
made up about 58% of fatalities!
2007
2008
2009
2010
2011
2012
2013
2014
Safety Belt Use of all Front-Seat Occupants
Safety Belt Use for all Killed Occupants

Region	CAR	PICKUP	SUV	2014	2013	Diff: 2014-2013
1-New Orleans	81.1%	74.7%	84.5%	81.0%	78.1%	2.9%
2-Baton Rouge	86.8%	75.4%	89.8%	84.4%	82.7%	1.7%
3-Houma	88.9%	84.5%	87.5%	87.7%	85.5%	2.2%
4-Lafayette	87.7%	80.1%	86.6%	85.0%	81.7%	3.4%
5-Lake Charles	88.3%	88.7%	93.2%	89.9%	91.0%	-1.1%
6-Alexandria	82.5%	52.3%	75.4%	70.9%	83.4%	-12.6%
7-Shreveport	85.4%	85.3%	93.8%	87.9%	83.6%	4.3%
8-Monroe	76.9%	71.4%	72.1%	74.8%	81.0%	-6.2%
LA total	**85.5%**	**78.5%**	**86.8%**	**84.1%**	**82.5%**	**1.6%**


2014/13 Seat Belt use by Gender
92.0%
90.0%
88.0%
86.0%
84.0%
82.0%
80.0%
78.0%
76.0%
74.0%
72.0%
79.2%
78.5%
89.2%
87.0%
Male
Female
2014
2013


20014/13 Seat belt Use by Gender
95.0%
90.0%
85.0%
80.0%
75.0%
70.0%
65.0%
86.6%
85.0%
78.2%
77.4%
92.7%
82.6%
92.7%
85.9%
White
Black
Hispanic
Other
2014
2013


20014/13 Seat Belt Use by Vehicle Type
90.0%
85.0%
80.0%
75.0%
70.0%
65.0%
85.5%
84.3%
78.5%
75.9%
86.8%
86.3%
88.7%
86.0%
Car
Pick-up
SUV
Van
2014
2013

Rear Seat Belt Use

	Rear Seat Safety Belt Use				
	Auto	**Pickup**	**SUV**	**Van**	**Total**
2008	27.30%	12.50%	31.30%	29.40%	27.20%
2010	50.00%	47.80%	77.20%	90.70%	58.40%
2011	46.00%	40.30%	71.40%	93.60%	53.80%
2013	50.88%	46.97%	67.09%	62.30%	54.84%
2014	48.76%	42.39%	69.31%	77.36%	54.92%