Motor Vehicle Fatal Crashes

East-West Gateway Region

2006 – 2016

Executive Advisory Committee

September 18, 2018

Fatalities Per 100 Million Vehicle Miles Traveled
Source: Federal Highway Administration Office of Policy Information Traffic Volume Trends, Fatality Analysis Reporting System (FARS), IDOT, MoDOT, East-West Gateway
2.05
1.85
1.65
1.45
1.25
1.05
0.85
Missouri
United States
Illinois
EWG
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
United States
EWG
Illinois
Missouri

Electronic Devices

- Electronic devices is a subset of inattention/distractions categories
- Data is available from 2006-2016 for Missouri Counties and 2014-2016 for Illinois Counties
- Small portion of fatalities
- Fatalities associated with electronic devices may be under-reported.
- There is no clear trend regarding fatalities associated with electronic devices.

Fatalities by Electronic Devices by Year, East-West Gateway Area, 2006 - 2016

Year	Illinois Counties	Missouri Counties	Inattention/ Distractions Fatalities	Percent of All Fatalities
2006	-	0	0.0%	0.0%
2007	-	2	3.2%	0.7%
2008	-	5	7.1%	1.9%
2009	-	6	10.2%	2.6%
2010	-	5	7.8%	2.1%
2011	-	3	6.5%	1.3%
2012	-	2	3.8%	0.8%
2013	-	3	5.8%	1.3%
2014	2	2	7.4%	1.6%
2015	3	3	9.0%	2.2%
2016	3	2	7.7%	1.7%

Source: IDOT, MODot

Fatalities by Cause 2006 - 2016
Per 100 Million VMT
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Speed
Drugs/Alcohol
Lane
Inattention
Failure
to Yield
0.49
0.47
0.50
0.35
0.38
0.38
0.38
0.39
0.39
0.39
0.39
0.38
0.47
0.43
0.34
0.35
0.32
0.31
0.34
0.33
0.32
0.36
0.26
0.25
0.27
0.27
0.23
0.20
0.24
0.22
0.18
0.26
0.22
0.24
0.22
0.26
0.29
0.24
0.27
0.20
0.22
0.22
0.27
0.26
0.17
0.12
0.15
0.13
0.12
0.14
0.16
0.14
0.09
0.20
0.15
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
Exceeding speed limit/too fast for conditions
Drugs/Alcohol
Inattention/distractions
Lane usage/lane change/Passing
Failure to yield

Fatalities Involving Speed, Per 100 Million Vehicles Miles Traveled, 2007-2016
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
EWG
United States
0.47
0.50
0.35
0.38
0.38
0.38
0.39
0.39
0.39
0.39
0.43
0.40
0.36
0.35
0.34
0.35
0.32
0.31
0.31
0.32
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
EWG
United States

Fatalities involving Drugs or Alcohol Per 100 Million Vehicle Miles Traveled, 2006-2016
0.50
0.45
0.40
0.35
0.30
0.25
0.20
EWG
United States
0.47
0.43
0.39
0.38
0.39
0.37
0.34
0.34
0.35
0.35
0.32
0.32
0.35
0.31
0.34
0.33
0.33
0.31
0.33
0.32
0.36
0.34
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
EWG
United States

Fatality Rate Comparison

- St. Louis MSA ranked 14th among peer regions for fatality rates per 100 million vehicle miles traveled in 2016
- St Louis had a higher rate than each of the other Midwest peer MSAs

Fatalities, 2016

Per 100 million Vehicle Miles Traveled

1	New Orleans	1.74
2	Memphis	1.68
3	Tampa	1.62
4	Miami	1.41
5	Jacksonville	1.41
6	San Antonio	1.39
7	Phoenix	1.38
8	Louisville	1.34
9	Charlotte	1.33
10	Austin	1.29
11	Sacramento	1.25
12	Riverside	1.23
13	Orlando	1.22
14	**St Louis**	**1.20**
United States		**1.18**
15	Houston	1.18
16	Birmingham	1.15
17	Dallas	1.13
18	Raleigh	1.11
19	Oklahoma City	1.10
20	Las Vegas	1.10
21	Nashville	1.08
22	Kansas City	1.08
23	Pittsburgh	1.03
24	Detroit	1.00
25	Atlanta	1.00
26	Philadelphia	0.99
27	Denver	0.97
28	Portland	0.94
29	Columbus	0.94
30	Cleveland	0.93
31	Cincinnati	0.93
32	Los Angeles	0.91
33	Virginia Beach	0.88
34	Milwaukee	0.87
35	Richmond	0.86
36	Salt Lake City	0.83
37	San Diego	0.82
38	Chicago	0.80
39	Baltimore	0.79
40	Providence	0.78
41	New York	0.78
42	Indianapolis	0.77
43	San Jose	0.76
44	Seattle	0.75
45	Hartford	0.75
46	Buffalo	0.72
47	Washington D.C.	0.67
48	San Francisco	0.66
49	Boston	0.57
50	Minneapolis	0.57

Source: Federal Highway Administration, FARS database, State DOTs

Fatality Rate Comparison - Continued

- St Louis MSA in 2016 ranked 7th among peer regions with fatalities relating to speed
- Drug and alcohol related fatalities were just above average (22nd) and numerically just above the midpoint
- Distracted driver fatalities ranked 21st

Fatalities Associated With Speed, 2016

Per 100 Million Vehicle Miles Traveled

1	Charlotte	0.55
2	Pittsburgh	0.49
3	Las Vegas	0.47
4	Milwaukee	0.45
5	New Orleans	0.44
6	Raleigh	0.43
7	St Louis	0.43
8	San Antonio	0.43
9	Kansas City	0.42
10	Phoenix	0.41
11	Sacramento	0.41
12	Richmond	0.37
13	Dallas	0.37
14	Denver	0.36
15	Riverside	0.33
16	Houston	0.32
United States		**0.32**
17	Los Angeles	0.31
18	Chicago	0.31
19	Austin	0.30
20	Louisville	0.30
21	Cleveland	0.30
22	Birmingham	0.29
23	Portland	0.29
24	Buffalo	0.28
25	Philadelphia	0.28
26	Oklahoma City	0.26
27	San Diego	0.26
28	Memphis	0.26
29	Providence	0.25
30	Baltimore	0.23
31	Virginia Beach	0.23
32	San Francisco	0.23
33	Detroit	0.23
34	Seattle	0.23
35	San Jose	0.21
36	New York	0.21
37	Indianapolis	0.21
38	Cincinnati	0.20
39	Atlanta	0.20
40	Washington D.C.	0.19
41	Hartford	0.18
42	Miami	0.17
43	Salt Lake City	0.17
44	Tampa	0.16
45	Nashville	0.16
46	Boston	0.16
47	Columbus	0.16
48	Minneapolis	0.14
49	Jacksonville	0.09
50	Orlando	0.07

Source: Federal Highway Administration, FARS database, State DOTs

Fatalities Associated With Drugs or Alcohol, 2016

Per 100 Million Vehicle Miles Traveled

1	Jacksonville	0.78
2	New Orleans	0.61
3	Las Vegas	0.60
4	Houston	0.55
5	Orlando	0.54
6	Tampa	0.50
7	Sacramento	0.50
8	Charlotte	0.48
9	San Antonio	0.47
10	Austin	0.43
11	Dallas	0.43
12	Raleigh	0.41
13	Kansas City	0.39
14	Denver	0.38
15	Riverside	0.38
16	Phoenix	0.36
17	Pittsburgh	0.35
United States		**0.34**
18	Memphis	0.32
19	Philadelphia	0.32
20	Cleveland	0.32
21	Columbus	0.31
22	**St Louis**	**0.31**
23	San Jose	0.31
24	Nashville	0.30
25	Louisville	0.30
26	San Diego	0.30
27	Cincinnati	0.29
28	Oklahoma City	0.27
29	Detroit	0.25
30	Miami	0.24
31	Portland	0.22
32	Los Angeles	0.21
33	Birmingham	0.20
34	Seattle	0.19
35	Indianapolis	0.19
36	San Francisco	0.19
37	Richmond	0.19
38	Baltimore	0.18
39	Milwaukee	0.18
40	New York	0.17
41	Salt Lake City	0.17
42	Virginia Beach	0.17
43	Atlanta	0.15
44	Minneapolis	0.15
45	Washington D.C.	0.15
46	Chicago	0.14
47	Hartford	0.14
48	Boston	0.13
49	Providence	0.11
50	Buffalo	0.09

Source: Federal Highway Administration, FARS database, State DOTs

Fatalities Associated with Distracted Drivers, 2016

Per 100 Million Vehicle Miles Traveled

1	New Orleans	0.38
2	Louisville	0.29
3	San Antonio	0.27
4	Virginia Beach	0.22
5	Seattle	0.22
6	Richmond	0.19
7	Milwaukee	0.18
8	New York	0.17
9	Orlando	0.16
10	Charlotte	0.16
11	Tampa	0.16
12	Memphis	0.15
13	Phoenix	0.14
14	Buffalo	0.13
15	Philadelphia	0.13
United States		**0.13**
16	Kansas City	0.12
17	Austin	0.12
18	Dallas	0.12
19	Nashville	0.12
20	Raleigh	0.12
21	**St. Louis**	**0.11**
22	Baltimore	0.11
23	Washington D.C.	0.11
24	Riverside	0.10
25	Denver	0.09
26	Oklahoma City	0.09
27	Cincinnati	0.09
28	Cleveland	0.08
29	Houston	0.08
30	Portland	0.07
31	Atlanta	0.07
32	Jacksonville	0.07
33	Boston	0.07
34	Miami	0.07
35	Pittsburgh	0.06
36	Minneapolis	0.06
37	Providence	0.06
38	Columbus	0.06
39	Los Angeles	0.06
40	Salt Lake City	0.06
41	Detroit	0.06
42	Chicago	0.05
43	Indianapolis	0.05
44	San Diego	0.05
45	San Jose	0.05
46	Sacramento	0.05
47	Birmingham	0.05
48	San Francisco	0.04
49	Las Vegas	0.02
50	Hartford	0.01

Source: Federal Highway Administration, FARS database, State DOTs

Electronic Devices

- This graph shows crashes associated with electronic devices, including non-fatal crashes.
- There appears to be an upward trend from 2014-2016.

Conclusion

- Fatality rates vary by county
- Much variability exists on how crashes are categorized
- There can be much year to year variability for fatality rates

East-West Gateway, Fatalities and Rate by County, 2016

County	Fatalities	Rate Per 100 Million VMT
Madison	21	0.72
Monroe	3	0.81
St. Clair	40	1.41
Franklin	21	1.78
Jefferson	40	2.09
St. Charles	27	0.81
St. Louis	80	0.79
St. Louis City	62	2.53
East-West Gateway	294	1.17

Source: IDOT, MODot

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