NHTSA

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Fatality Analysis Reporting System (FARS) Visualization

NHTSA's FARS and Traffic Safety Fact Sheets

FARS Data

Fatality Analysis Reporting System

Census of all Police-reported traffic crashes in the U.S. That resulted in fatality

Available from 1975 to 2016

Hundreds of data elements coded from multiple data sources

NHTSA's Traffic Safety Fact Sheets

Fact Sheets contain statistics, charts and trends on high-interest areas

Sixteen fact sheets in various topics of safety

Updated annually with yearly FARS data releases

Current versions incorporate inter-departmental review team findings

Project Overview

Extend pdf tables in NHTSA Traffic Safety Fact Sheets to interactive dashboards and visualizations

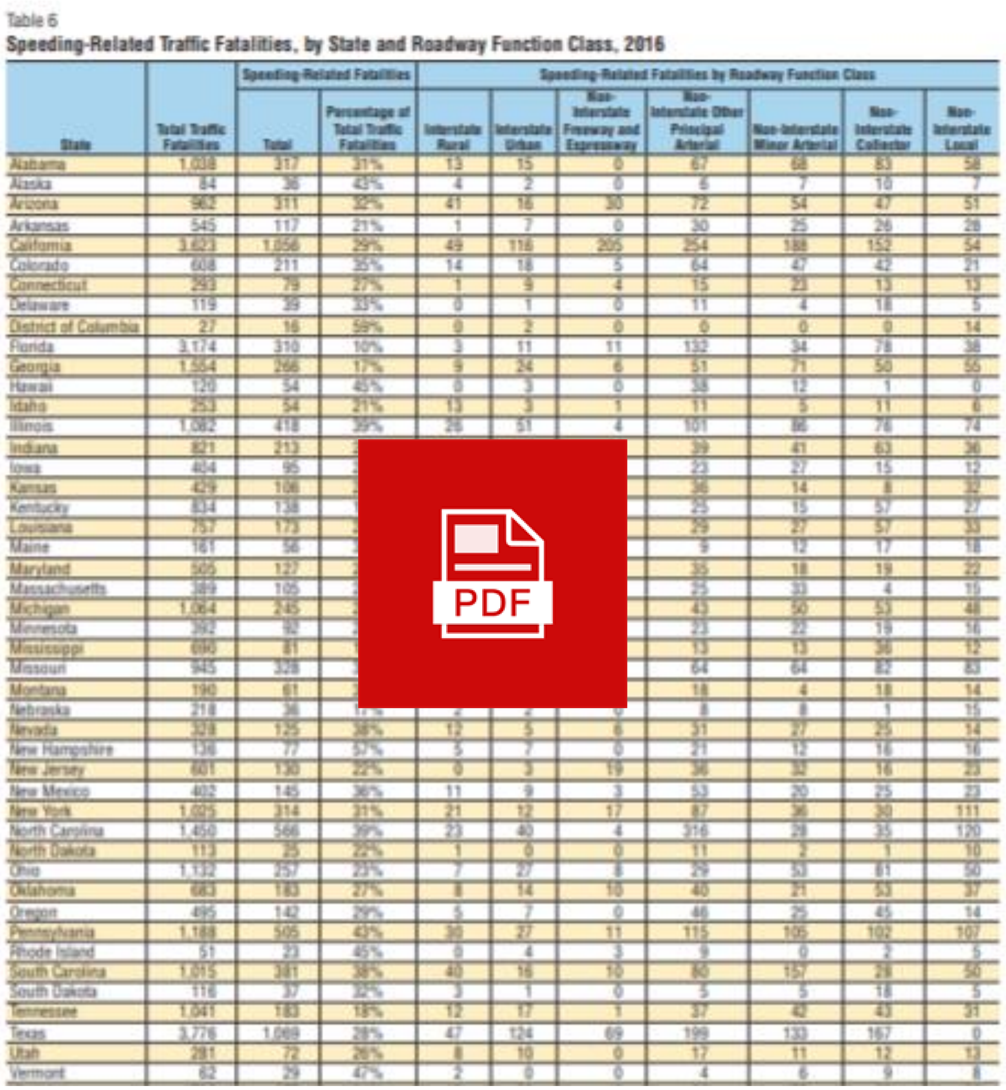
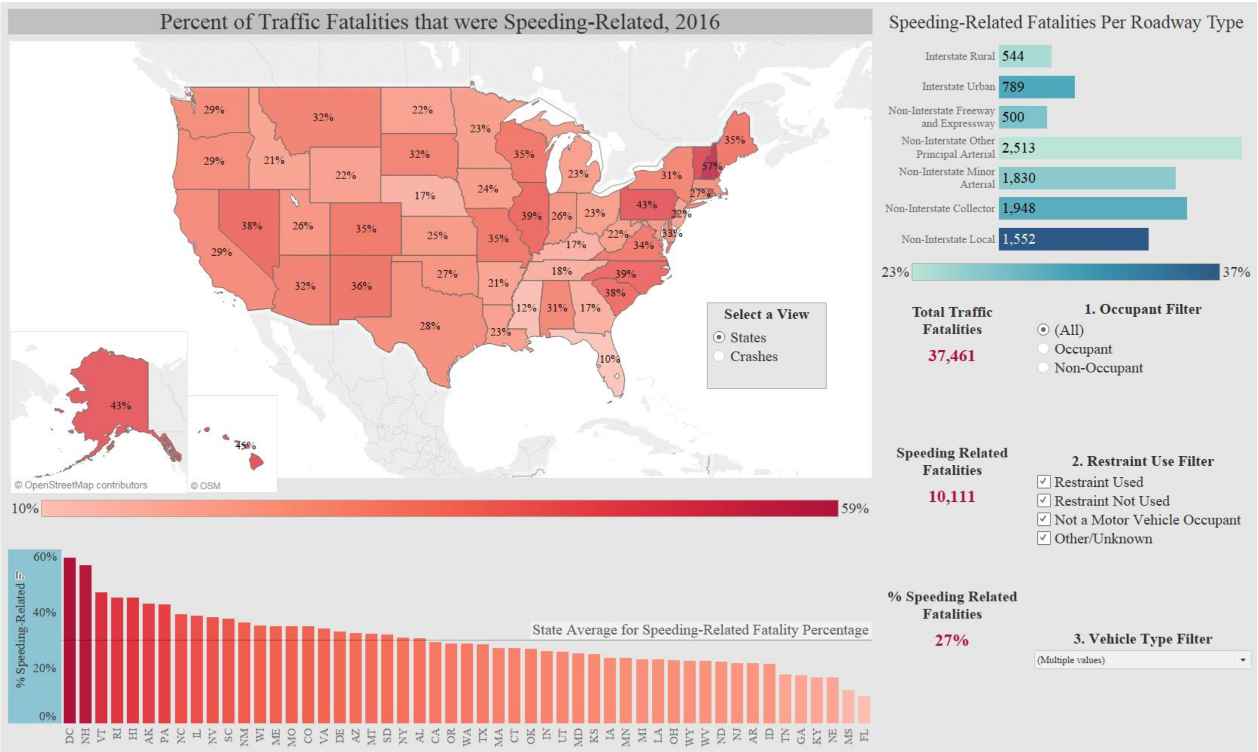


Table 6

Speeding-Related Traffic Fatalities, by State and Roadway Function Class, 2016

State	Total Traffic Fatalities	Speeding-Related Fatalities: Total	Speeding-Related Fatalities: Percentage of Total Traffic Fatalities	Speeding-Related Fatalities by Roadway Function Class: Interstate Rural	Interstate Urban	Non-Interstate Freeway and Expressway	Non-Interstate Other Principal Arterial	Non-Interstate Minor Arterial	Non-Interstate Collector	Non-Interstate Local
Alabama	1,038	317	31%	13	15	0	67	68	83	58
Alaska	84	36	43%	4	2	0	6	7	10	7
Arizona	962	311	32%	41	16	30	72	54	47	51
Arkansas	545	117	21%	1	7	0	30	25	26	28
California	3,623	1,056	29%	49	116	205	254	188	152	54
Colorado	608	211	35%	14	18	5	64	47	42	21
Connecticut	293	79	27%	1	9	4	15	23	13	13
Delaware	119	39	33%	0	1	0	11	4	18	5
District of Columbia	27	16	59%	0	2	0	0	0	0	14
Florida	3,174	310	10%	3	11	11	132	34	78	38
Georgia	1,554	266	17%	9	24	6	51	71	50	55
Hawaii	120	54	45%	0	3	0	38	12	1	0
Idaho	253	54	21%	13	3	1	11	5	11	6
Illinois	1,082	418	39%	26	51	4	101	86	78	74
Indiana	821	213	[illegible]	[illegible]	[illegible]	[illegible]	39	41	63	36
Iowa	404	95	[illegible]	[illegible]	[illegible]	[illegible]	23	27	15	12
Kansas	429	106	[illegible]	[illegible]	[illegible]	[illegible]	36	14	8	32
Kentucky	834	138	[illegible]	[illegible]	[illegible]	[illegible]	25	15	57	27
Louisiana	757	173	[illegible]	[illegible]	[illegible]	[illegible]	29	27	57	33
Maine	161	56	[illegible]	[illegible]	[illegible]	[illegible]	9	12	17	18
Maryland	505	127	[illegible]	[illegible]	[illegible]	[illegible]	35	18	19	22
Massachusetts	389	105	[illegible]	[illegible]	[illegible]	[illegible]	25	33	4	15
Michigan	1,064	245	[illegible]	[illegible]	[illegible]	[illegible]	43	50	53	48
Minnesota	392	92	[illegible]	[illegible]	[illegible]	[illegible]	23	22	19	16
Mississippi	690	81	[illegible]	[illegible]	[illegible]	[illegible]	13	13	38	12
Missouri	945	328	[illegible]	[illegible]	[illegible]	[illegible]	64	64	82	83
Montana	190	61	[illegible]	[illegible]	[illegible]	[illegible]	18	4	18	14
Nebraska	218	36	17%	2	2	0	8	8	1	15
Nevada	329	125	38%	12	5	6	31	27	25	14
New Hampshire	136	77	57%	5	7	0	21	12	16	16
New Jersey	601	130	22%	0	3	19	36	32	16	23
New Mexico	402	145	36%	11	9	3	53	20	25	23
New York	1,025	314	31%	21	12	17	87	36	30	111
North Carolina	1,450	566	39%	23	40	4	316	28	35	120
North Dakota	113	25	22%	1	0	0	11	2	1	10
Ohio	1,132	257	23%	7	27	8	29	53	81	50
Oklahoma	683	183	27%	8	14	10	40	21	53	37
Oregon	495	142	29%	5	7	0	46	25	45	14
Pennsylvania	1,188	505	43%	30	27	11	115	105	102	107
Rhode Island	51	23	45%	0	4	3	9	0	2	5
South Carolina	1,015	381	38%	40	16	10	80	157	28	50
South Dakota	116	37	32%	3	1	0	5	5	18	5
Tennessee	1,041	183	18%	12	17	1	37	42	43	31
Texas	3,776	1,089	28%	47	124	69	199	133	167	0
Utah	281	72	26%	8	10	0	17	11	12	13
Vermont	62	29	47%	2	0	0	4	6	9	8



Why Visualize?

Why Visualize?

- Allows for unique insights through spatial explorations
  - State county level maps
  - Crash location maps
- Insights through interactions
  - Facilitates interactions with other FARS attributes
- Interactive Dashboards
  - Refresh information for any context
  - Update other visuals for that context

Current and Next Steps in Visualization

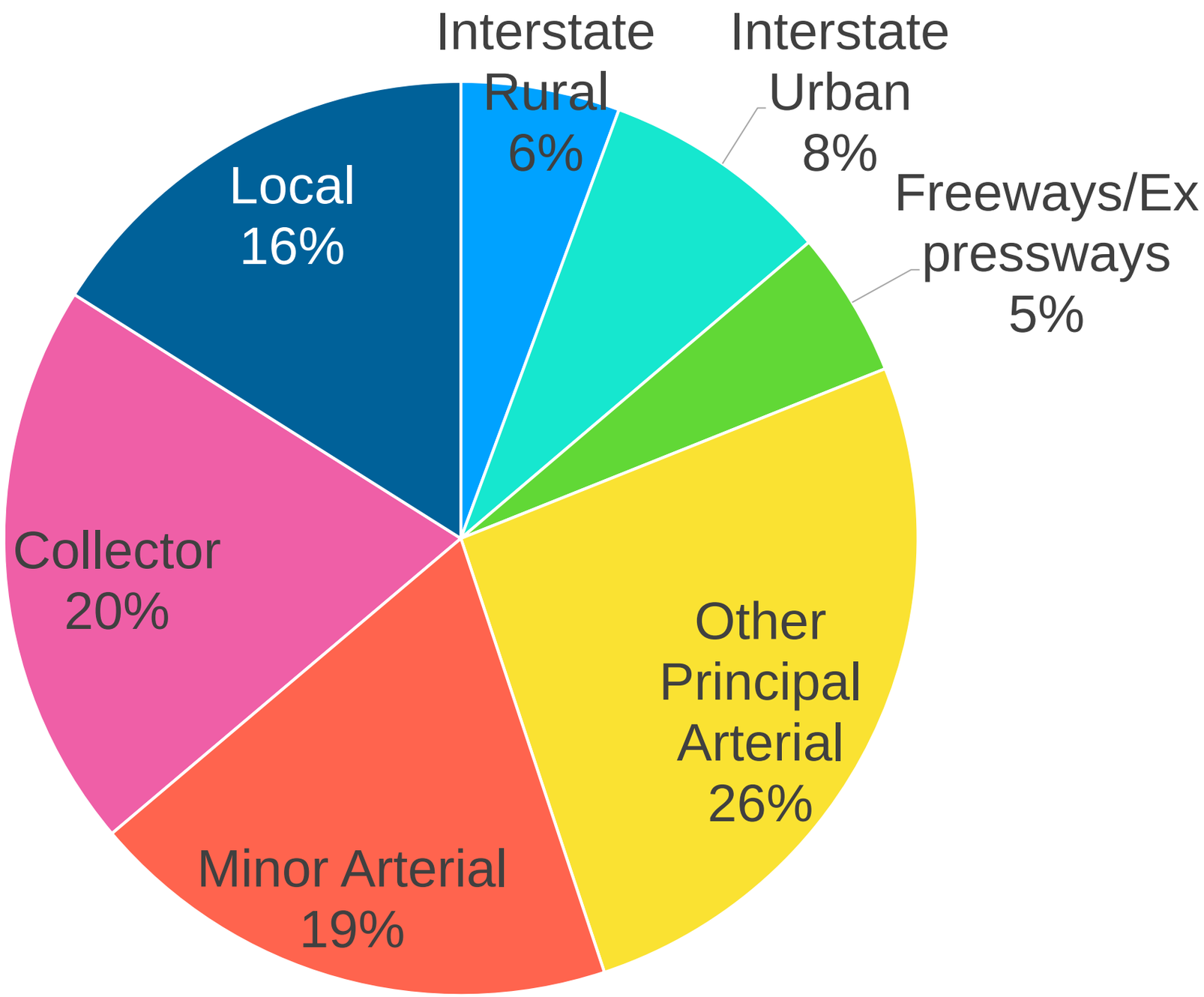
- Speeding Fact Sheet chosen as first topic
- Regional insights into speeding
- Interactions with other information
- Maps / Chart based visuals

- Deployment for public access
- Expand to other safety topic areas
- Continue to provide innovative visualizations

Speeding Fact Sheet Visualizations

Fatalities in Speeding-Related Crashes

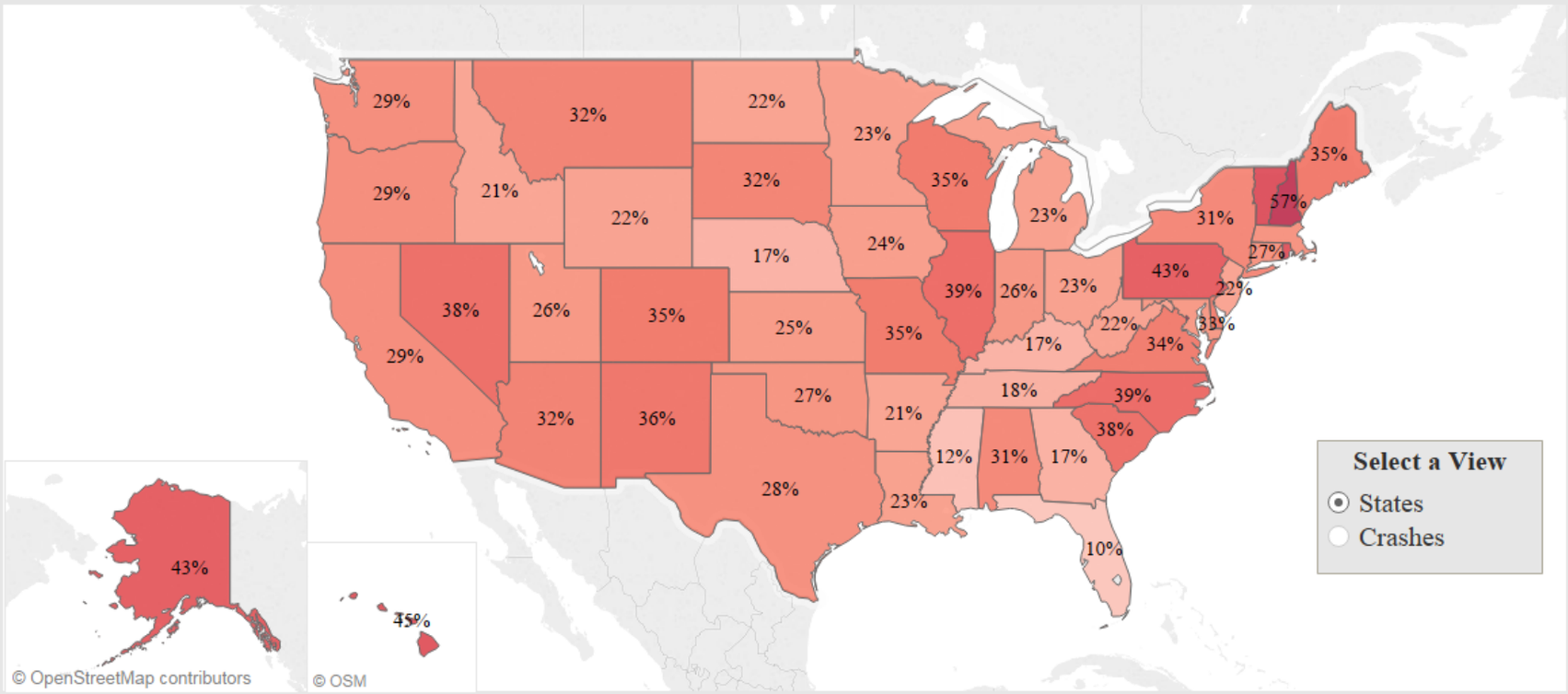
10,111 fatalities (27% of all fatalities)



Source: 2016 FARS

Speed Involvement in Traffic Fatalities, 2016

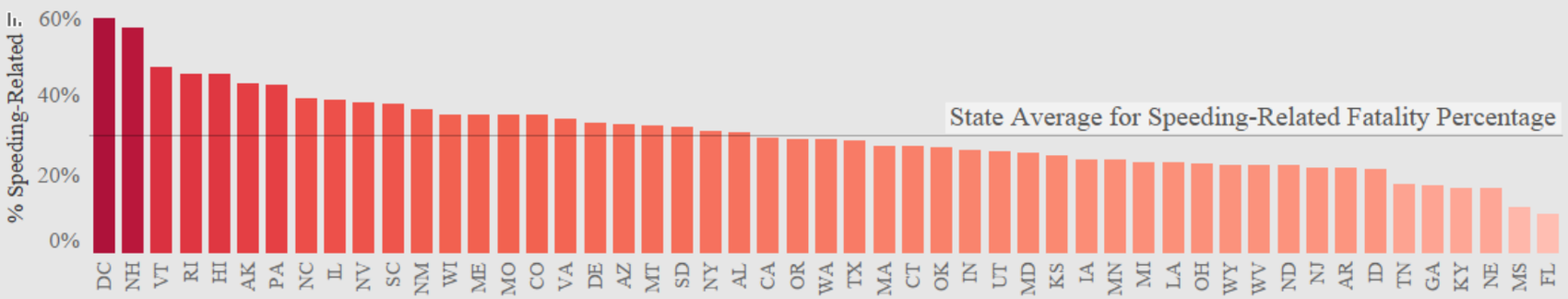
Percetage of Traffic Fatalities that were Speeding-Related, by State



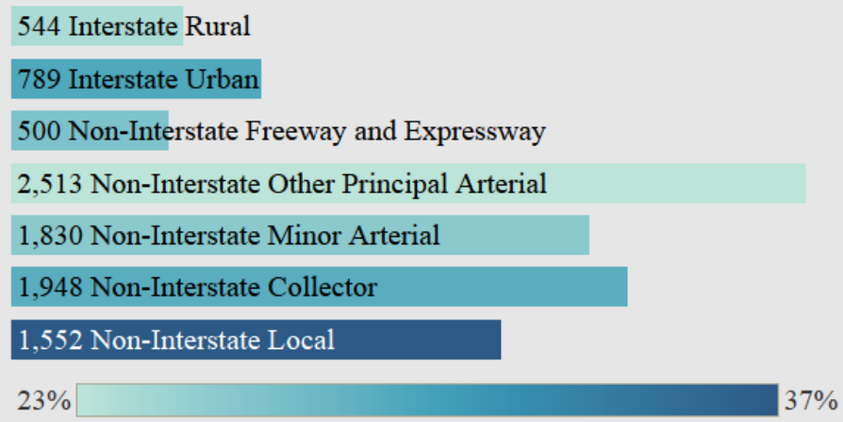
Select a View

- (•) States
- ( ) Crashes

10% — 59%



Speeding-Related Fatalities by Roadway Type



Total Traffic Fatalities

37,461

Speeding Related Fatalities

10,111

% Speeding Related Fatalities

27%

1. Occupant Filter

(All)

2. Restraint Use Filter

(All)

3. Vehicle Type Filter

(All)

4. Month of Crash Filter

(All)

5. Day of Week Filter

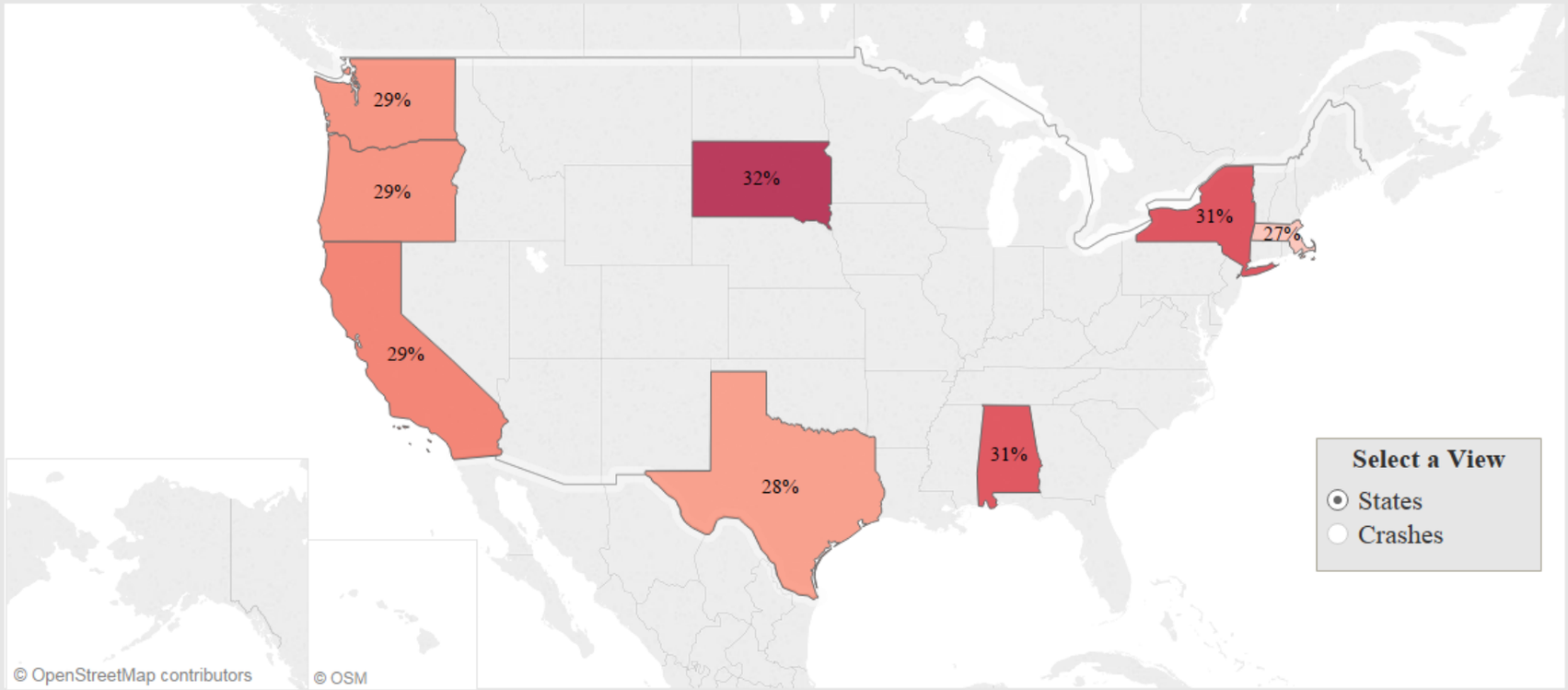
(All)

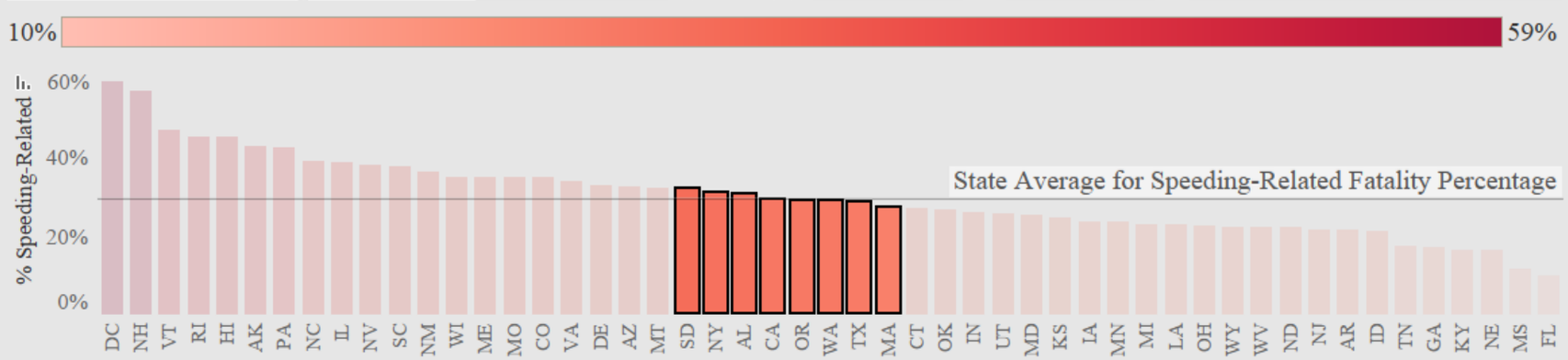
6. Hour of Day Filter

(All)

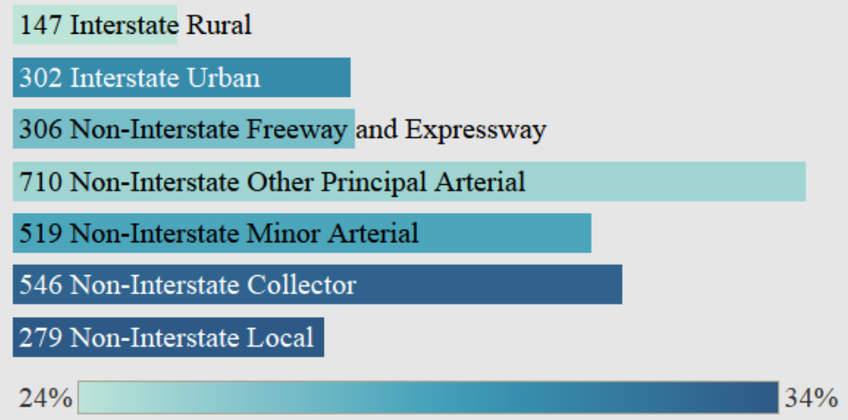
Speed Involvement in Traffic Fatalities, 2016

Percetage of Traffic Fatalities that were Speeding-Related, by State





Speeding-Related Fatalities by Roadway Type



Total Traffic Fatalities

10,999

Speeding Related Fatalities

3,194

% Speeding Related Fatalities

29%

1. Occupant Filter

(All)

2. Restraint Use Filter

(All)

3. Vehicle Type Filter

(All)

4. Month of Crash Filter

(All)

5. Day of Week Filter

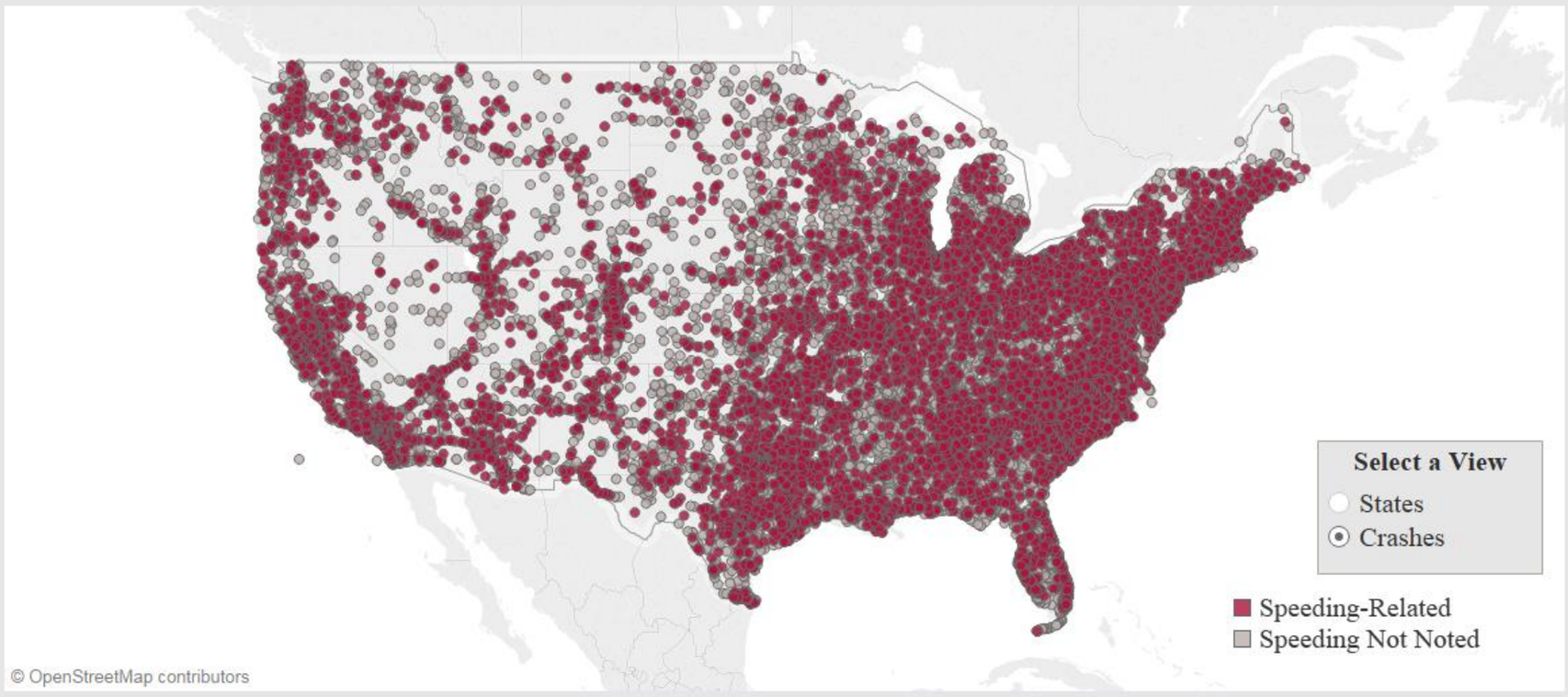
(All)

6. Hour of Day Filter

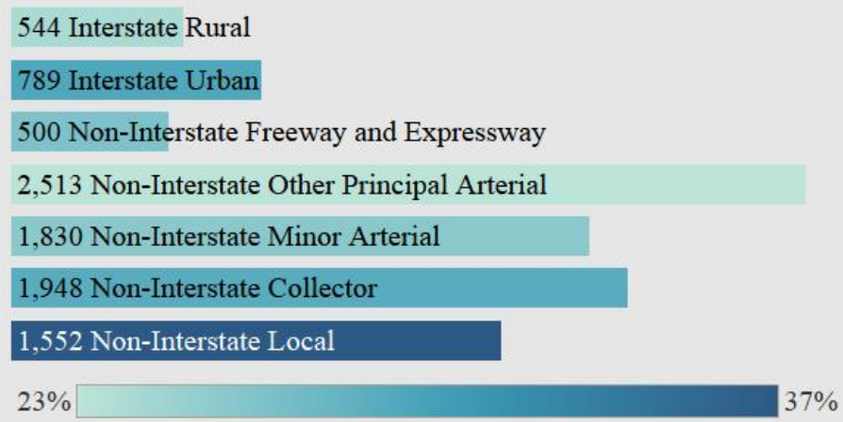
(All)

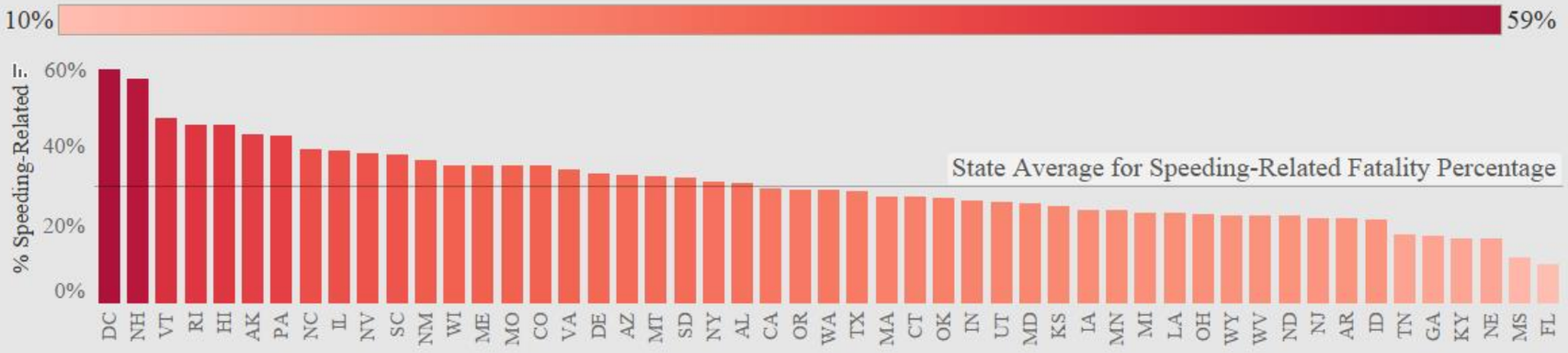
Speed Involvement in Traffic Fatalities, 2016

Fatal Crashes



Speeding-Related Fatalities by Roadway Type





Total Traffic Fatalities

37,461

Speeding Related Fatalities

10,111

% Speeding Related Fatalities

27%

1. Occupant Filter

(All)

2. Restraint Use Filter

(All)

3. Vehicle Type Filter

(All)

4. Month of Crash Filter

(All)

5. Day of Week Filter

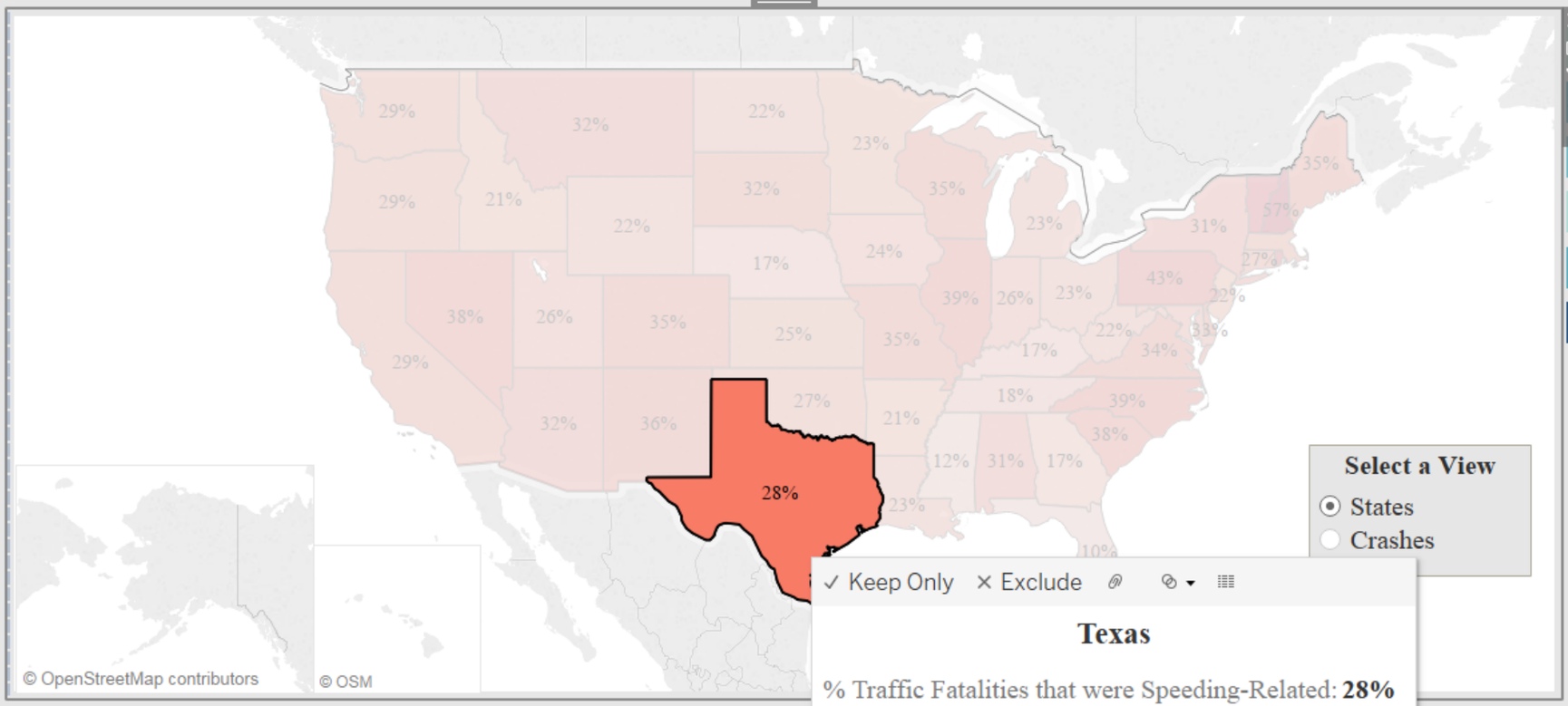
(All)

6. Hour of Day Filter

(All)

Speed Involvement in Traffic Fatalities, 2016

Percetage of Traffic Fatalities that were Speeding-Related, by State



Select a View

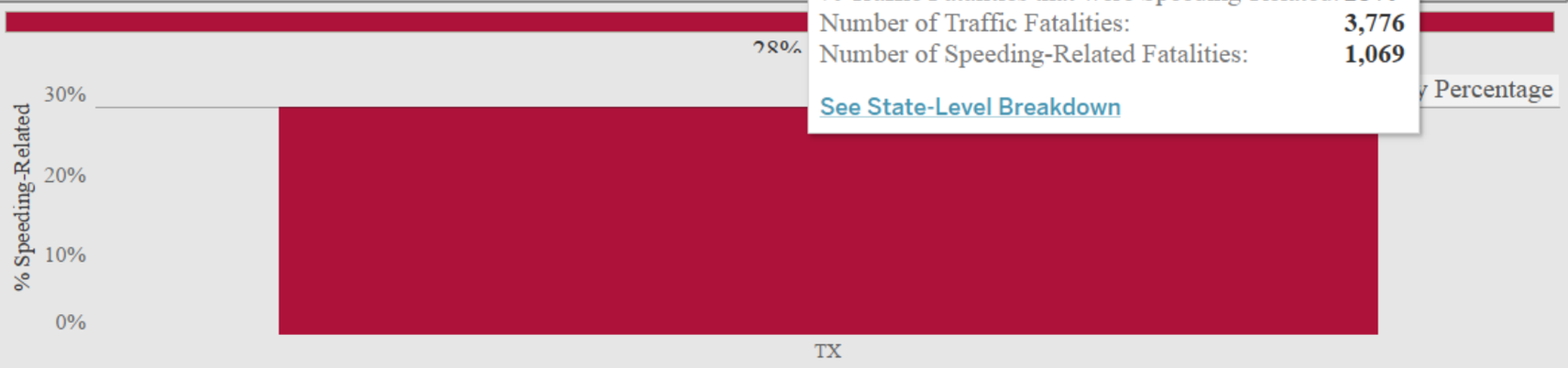
- (•) States
- ( ) Crashes

✓ Keep Only ✕ Exclude

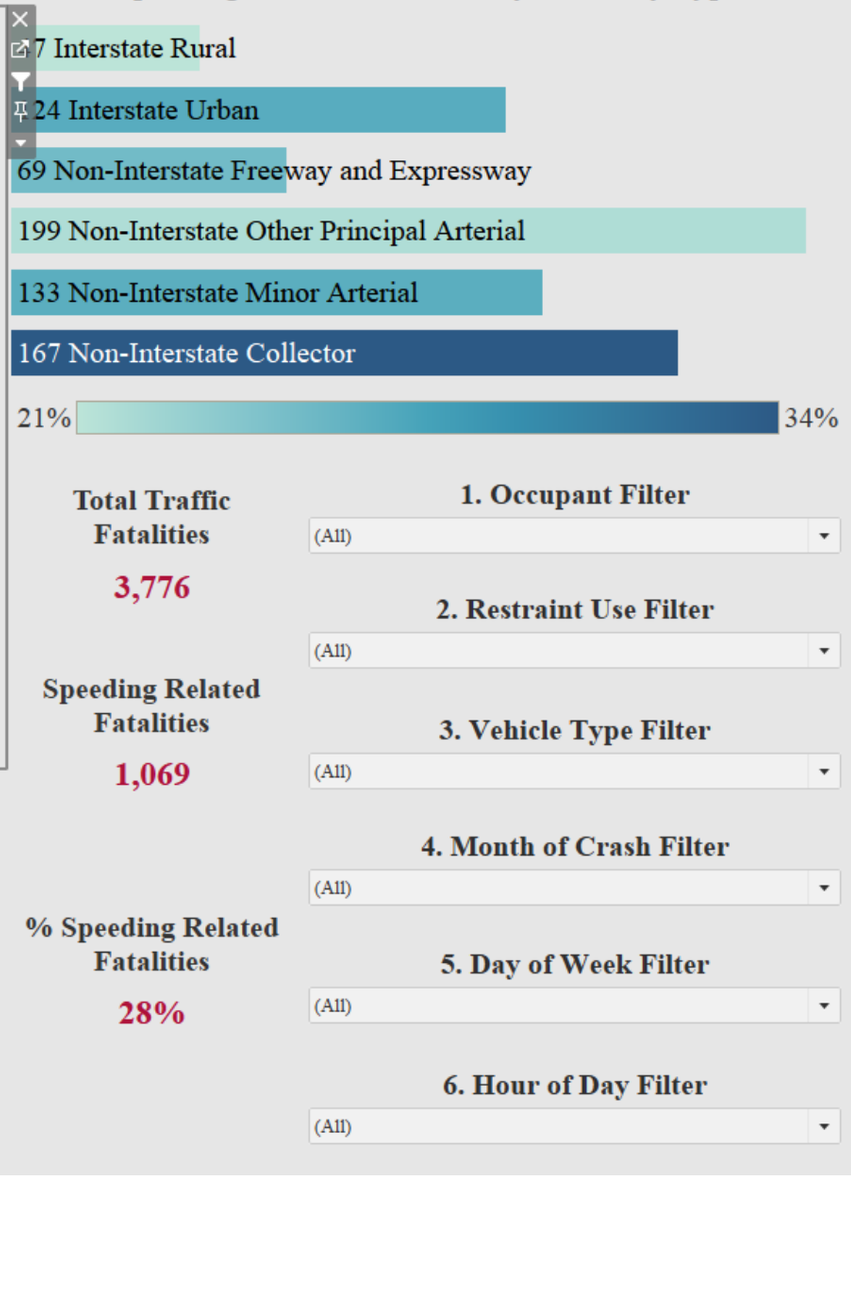
Texas

% Traffic Fatalities that were Speeding-Related: **28%**
Number of Traffic Fatalities: **3,776**
Number of Speeding-Related Fatalities: **1,069**

See State-Level Breakdown



Speeding-Related Fatalities by Roadway Type



Total Traffic Fatalities

3,776

Speeding Related Fatalities

1,069

% Speeding Related Fatalities

28%

1. Occupant Filter
(All)

2. Restraint Use Filter
(All)

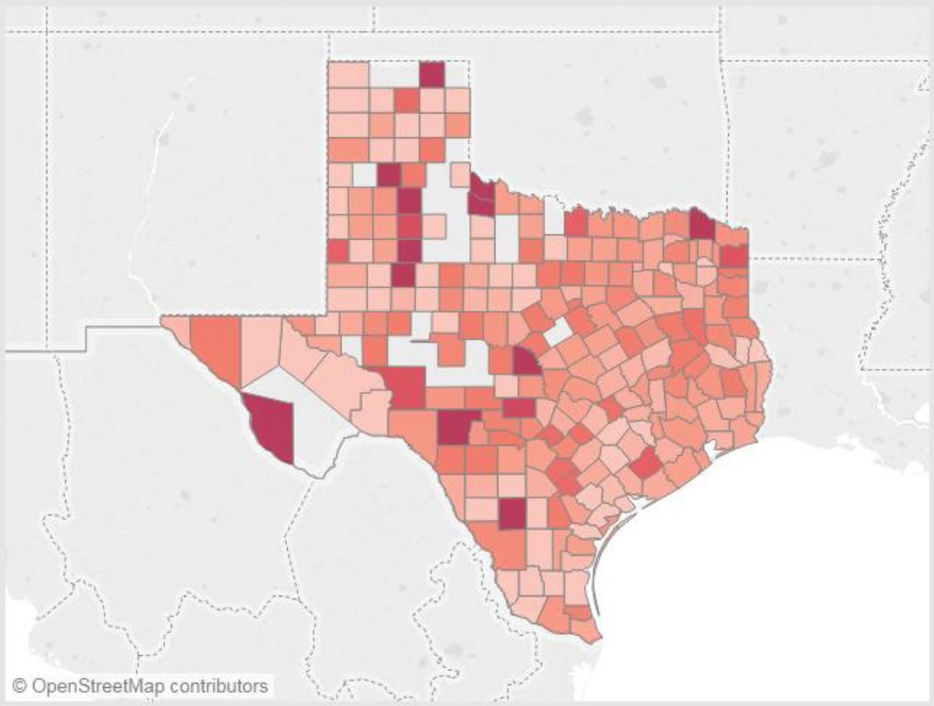
3. Vehicle Type Filter
(All)

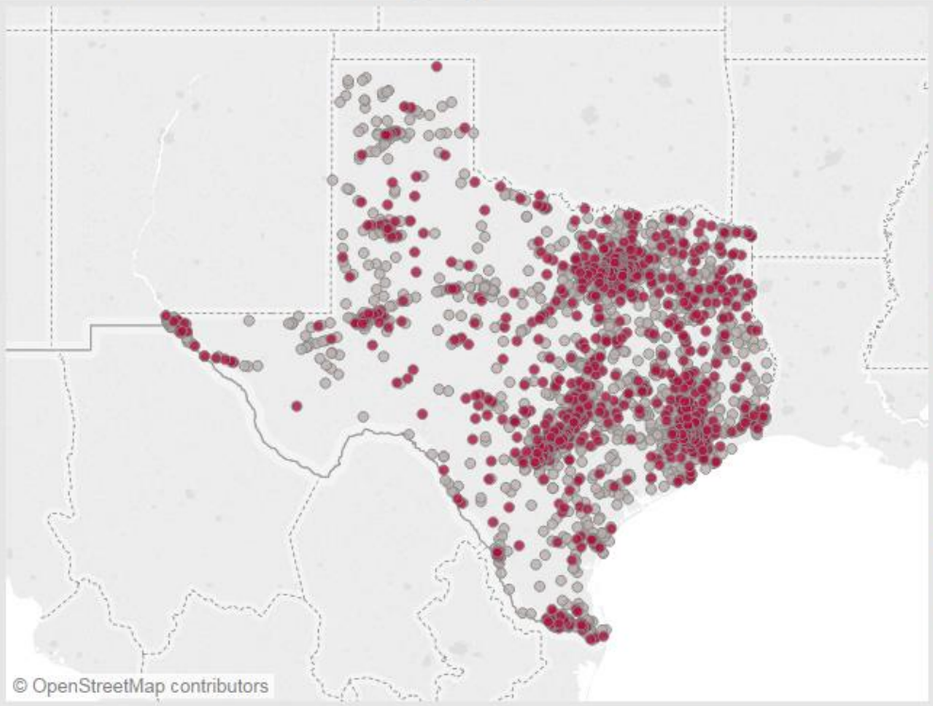
4. Month of Crash Filter
(All)

5. Day of Week Filter
(All)

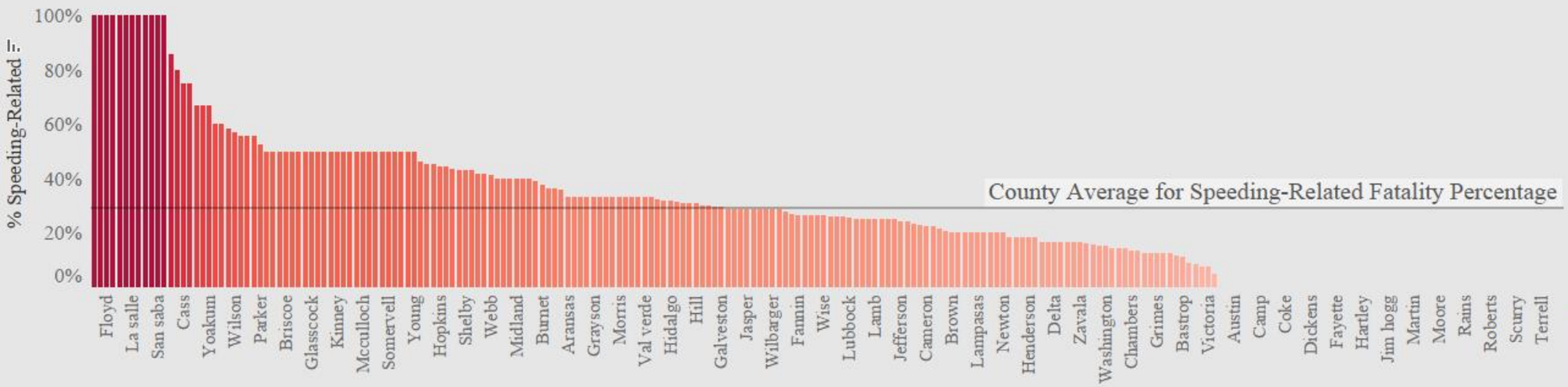
6. Hour of Day Filter
(All)

State Breakdown of Traffic Fatalities by Speeding Involvement, 2016

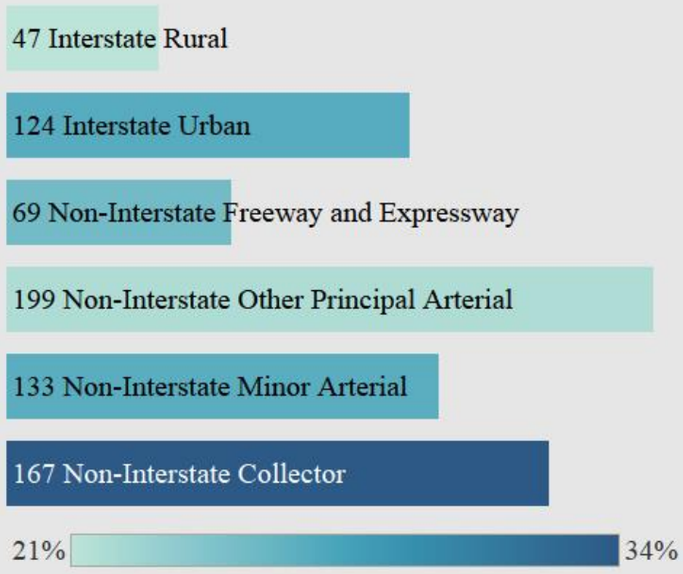




0% 100%



Speeding-Related Fatalities Per Roadway Type in **Texas**



Texas Traffic Fatalities in 2016

3,776

Texas Speeding-Related Fatalities

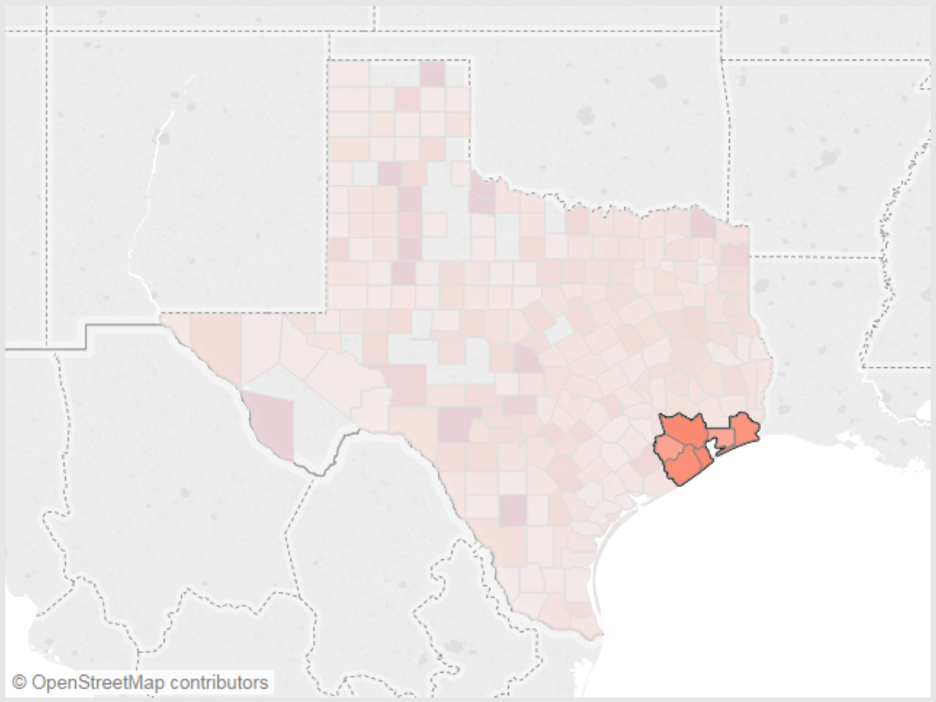
1,069

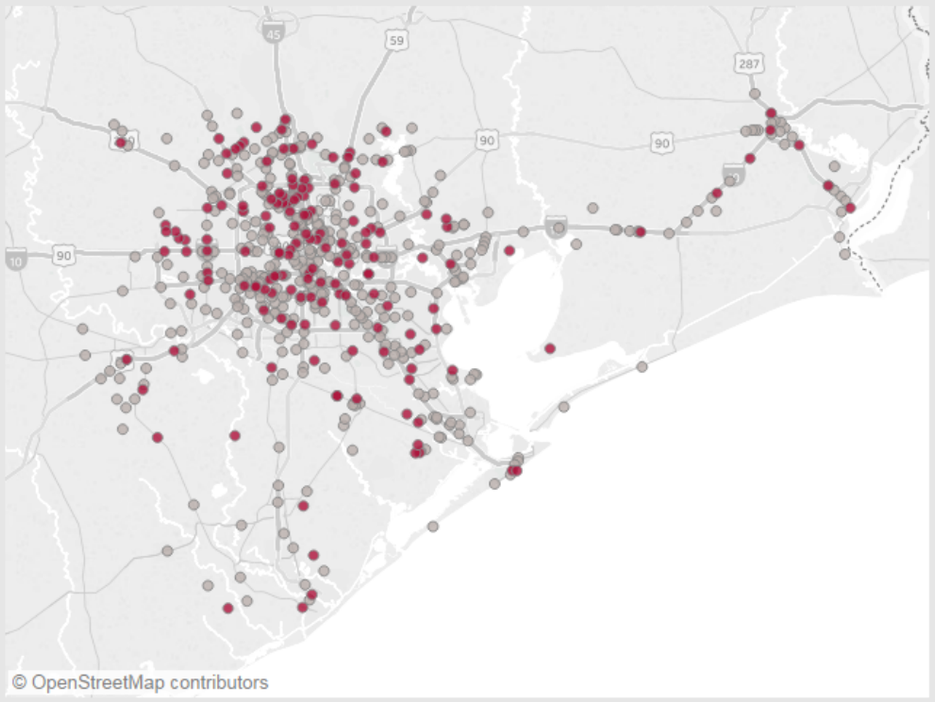
Texas % Speeding Related Fatalities

28%

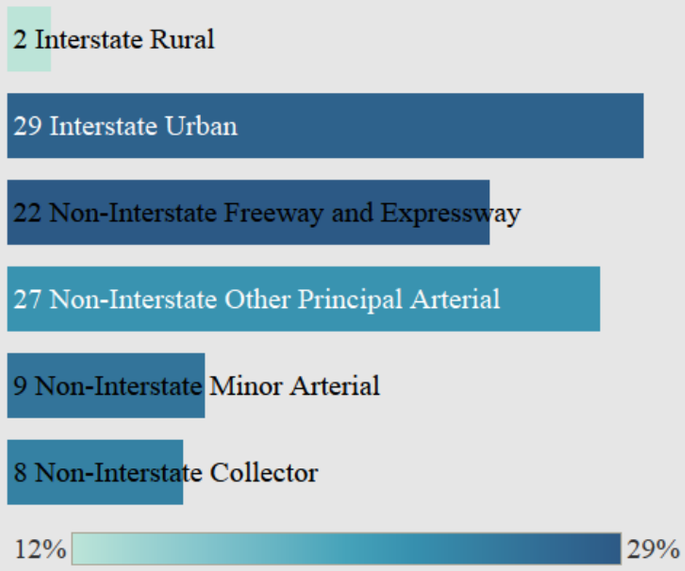
Back to U.S. Dashboard

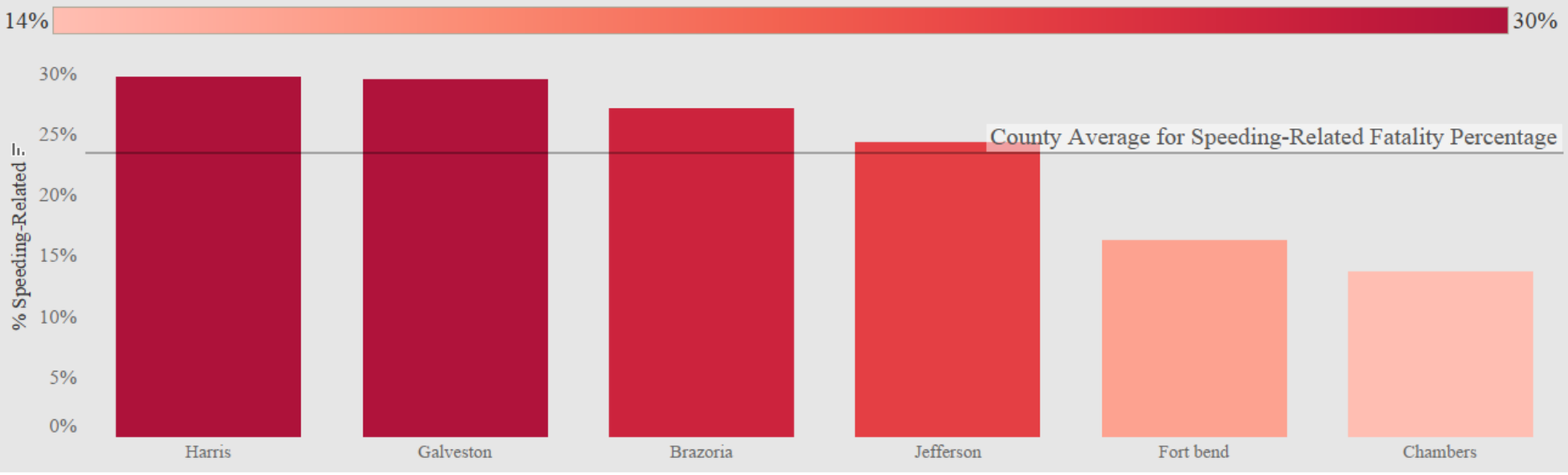
State Breakdown of Traffic Fatalities by Speeding Involvement, 2016





Speeding-Related Fatalities Per Roadway Type in **Texas**





Texas Traffic Fatalities in 2016

629

Texas Speeding-Related Fatalities

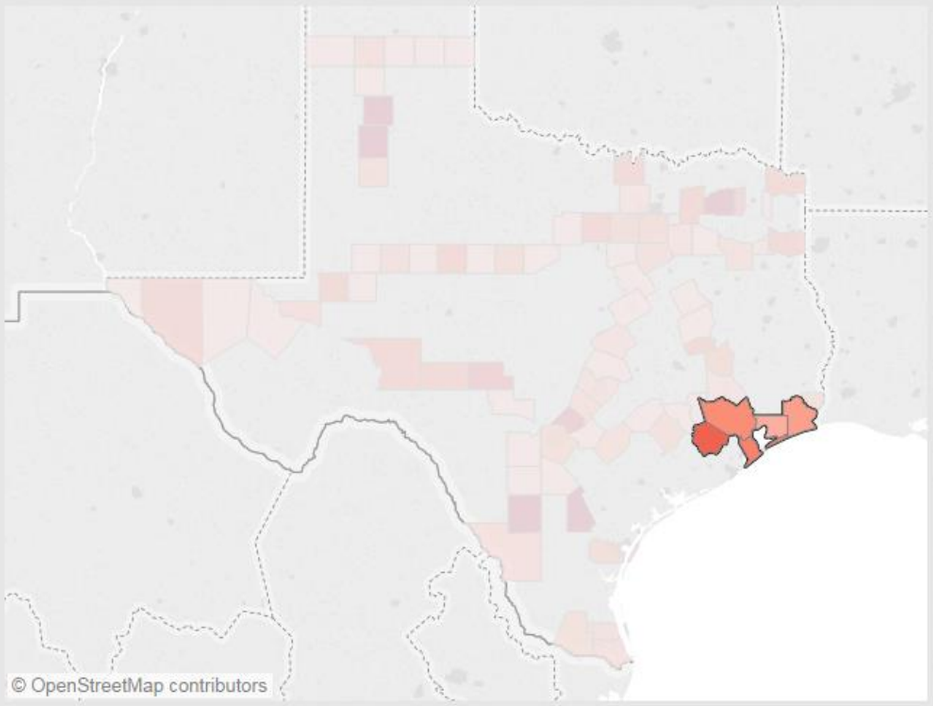
175

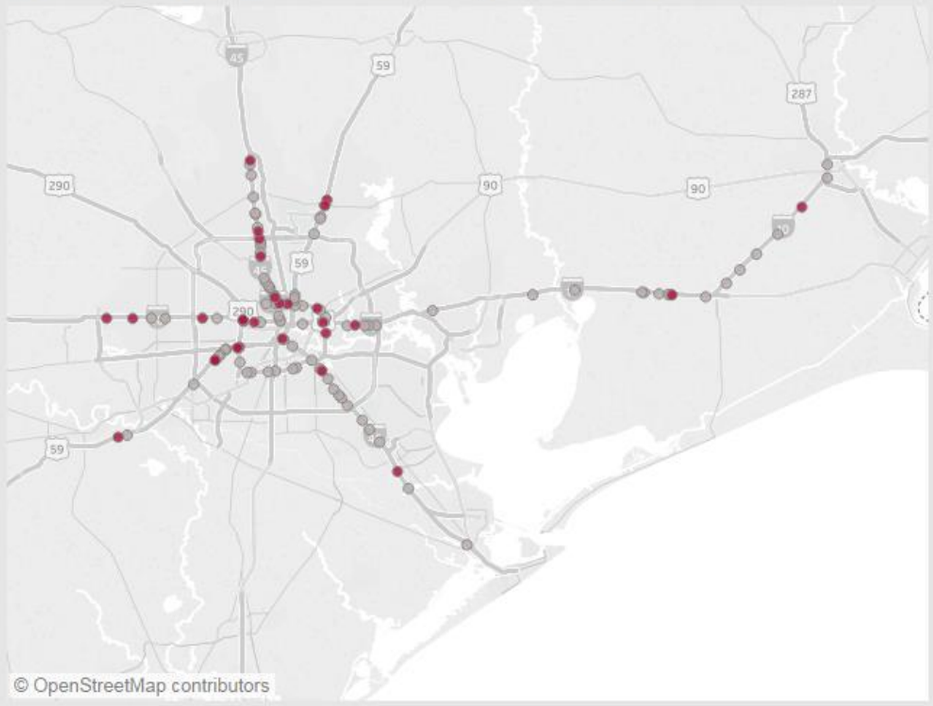
Texas % Speeding Related Fatalities

28%

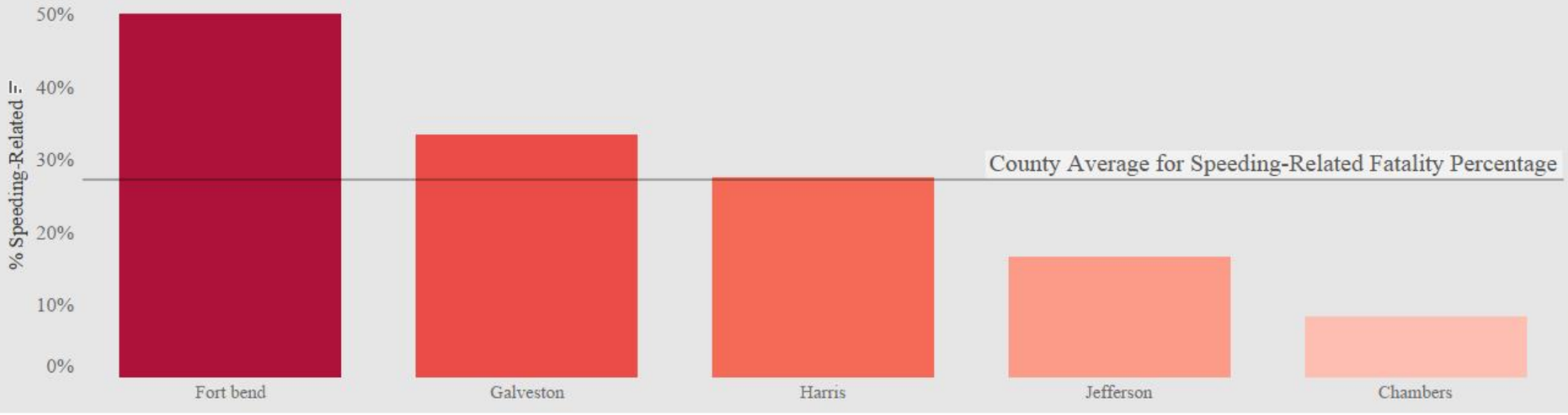
Back to U.S. Dashboard

State Breakdown of Traffic Fatalities by Speeding Involvement, 2016





8% 50%



Speeding-Related Fatalities Per Roadway Type in **Texas**

2 Interstate Rural

29 Interstate Urban

22 Non-Interstate Freeway and Expressway

21 Non-Interstate Other Principal Arterial

9 Non-Interstate Minor Arterial

4 Non-Interstate Collector

12% 31%

Texas Traffic Fatalities in 2016

121

Texas Speeding-Related Fatalities

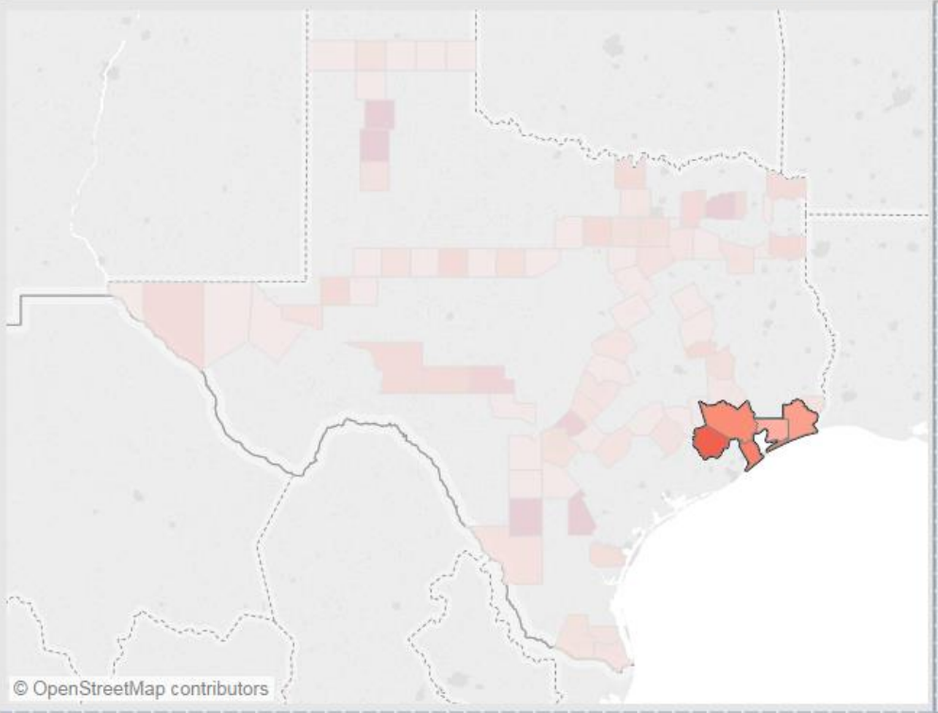
31

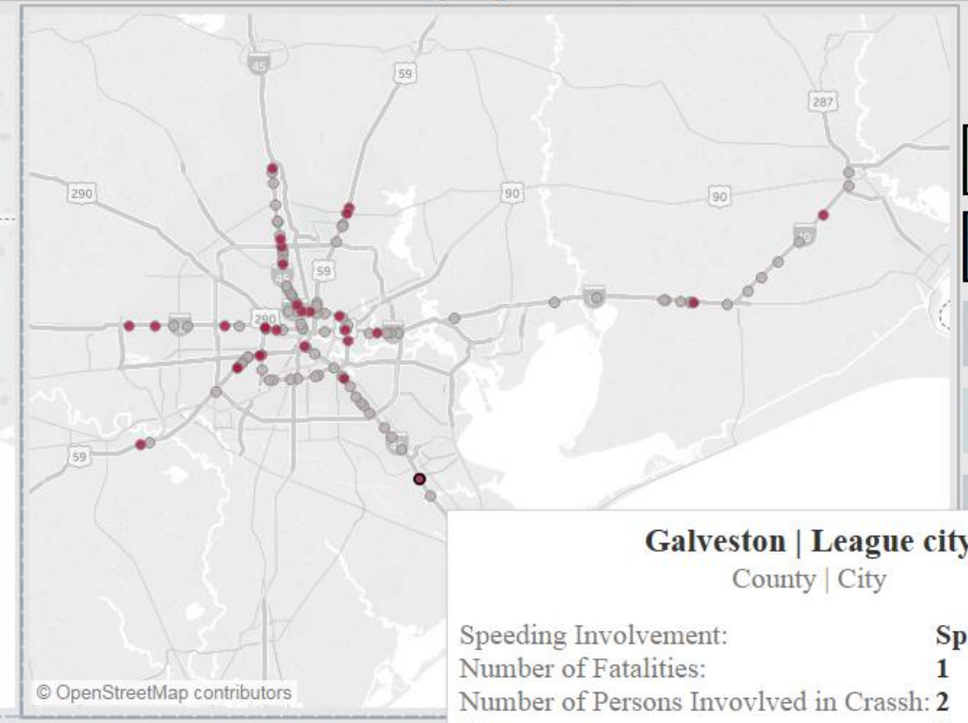
Texas % Speeding Related Fatalities

26%

Back to U.S. Dashboard

State Breakdown of Traffic Fatalities by Speeding Involvement, 2016





Galveston | League city
County | City

Speeding Involvement:	**Speeding-Related**
Number of Fatalities:	**1**
Number of Persons Invovlved in Crassh:	**2**
Time:	**Sunday 21:58**
Date:	**1/24/2016**
Roadway Functional Class:	**Interstate Urban**

Speeding-Related Fatalities Per Roadway Type in **Texas**

2 Interstate Rural

29 Interstate Urban

22 Non-Interstate Freeway and Expressway

21 Non-Interstate Other Principal Arterial

Minor Arterial

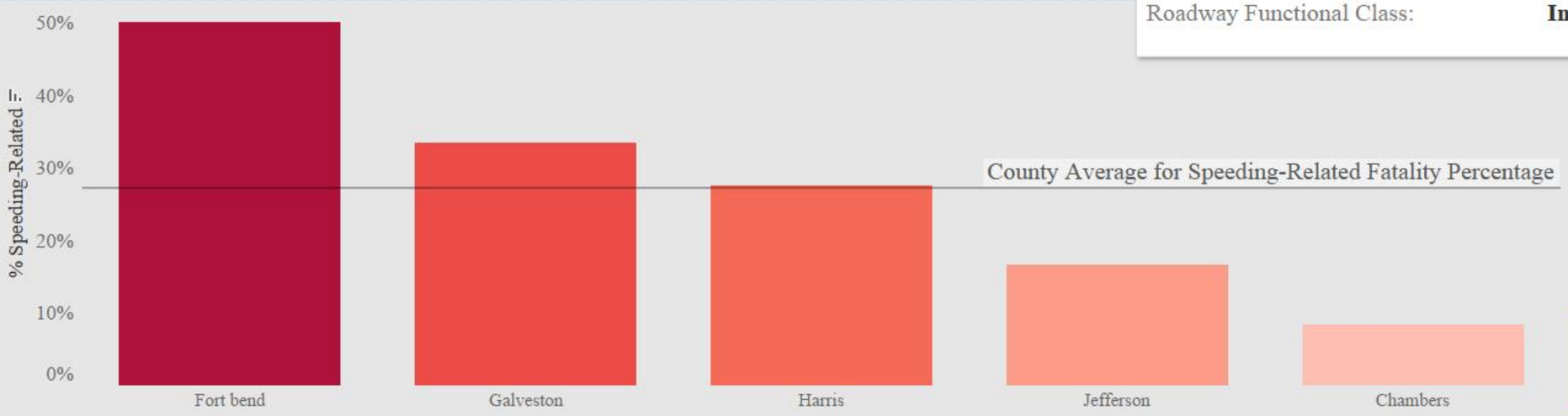
Collector

31%

8%

s Traffic Fatalities in 2016

121



Texas Speeding-Related Fatalities

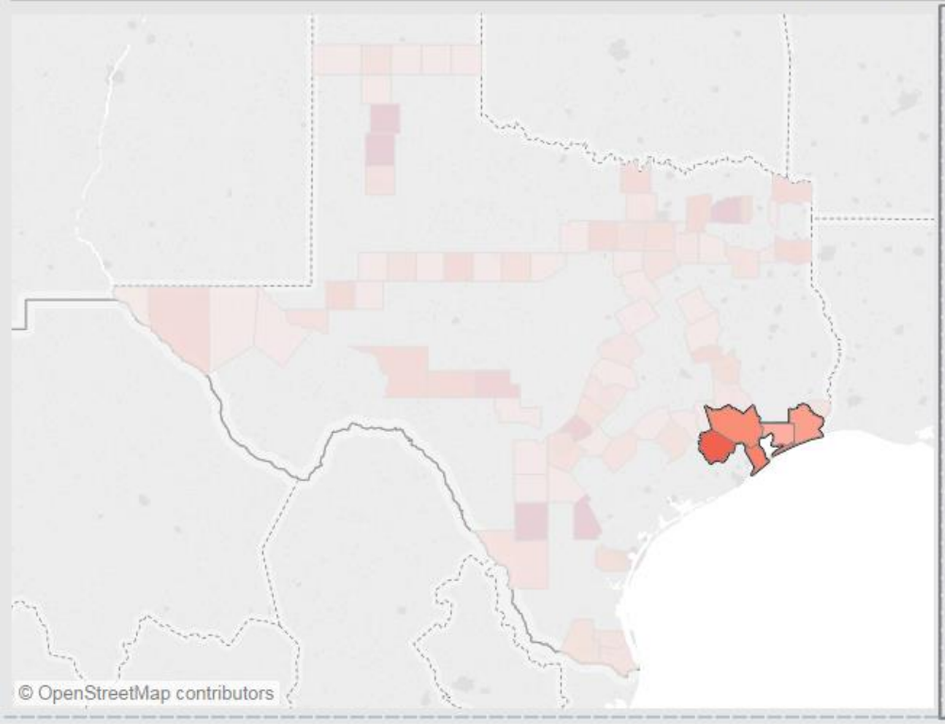
31

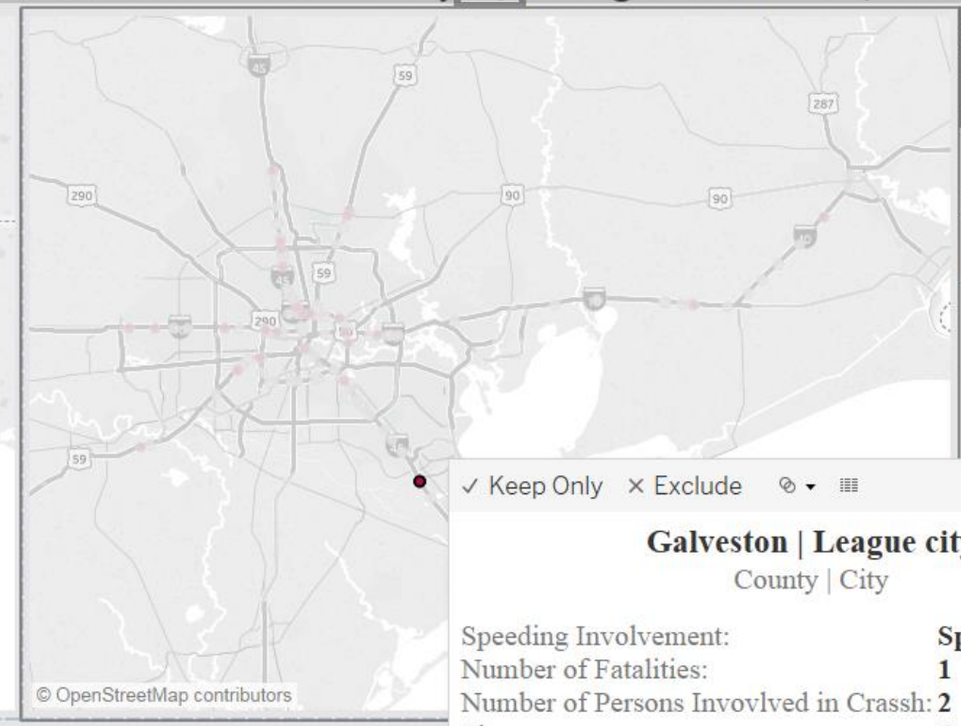
Texas % Speeding Related Fatalities

26%

Back to U.S. Dashboard

State Breakdown of Traffic Fatalities by Speeding Involvement, 2016





✓ Keep Only ✕ Exclude

Galveston | League city

County | City

Speeding Involvement:	**Speeding-Related**
Number of Fatalities:	**1**
Number of Persons Invovlved in Crassh:	**2**
Time:	**Sunday 21:58**
Date:	**1/24/2016**
Roadway Functional Class:	**Interstate Urban**

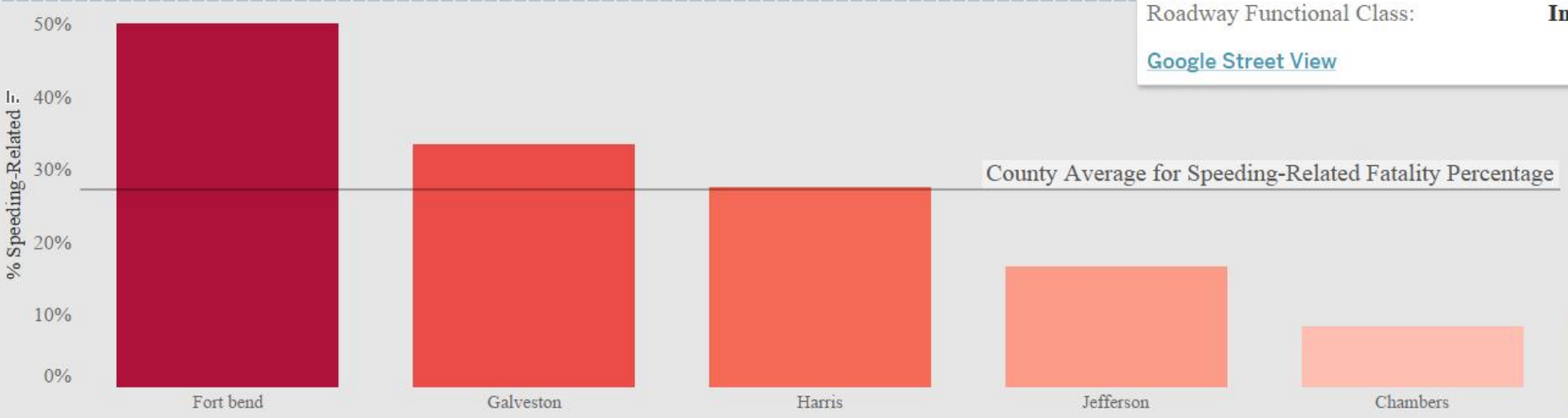
Google Street View

Speeding-Related Fatalities Per Roadway Type in **Texas**

8%

s Traffic Fatalities in 2016

121



Texas Speeding-Related Fatalities

31

Texas % Speeding Related Fatalities

26%

Back to U.S. Dashboard

THANK YOU