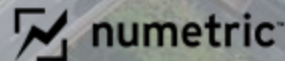


AASHTO Ware™



SAFETY



Using Crash Data to Prioritize Enforcement and Outreach Efforts

Audra Engle | Numetric, Inc.

Ben Seipert | Numetric, Inc.

November, 2023

Background

- AASHTOWare Safety powered by Numetric
- Partnering with Tennessee Department of Transportation since 2021
- Approximately 300 Users
- Numetric receives weekly data updates from TDOT
 - Crash Data - TITAN → TRIMS DB → AASHTOWare Safety (Numetric)
 - Crash Data available from January 1, 2015 to current
- AASHTOWare Safety Suite of Applications:
 - Dashboards
 - Crash Query
 - Network Screening
 - Sliding Window Analysis
 - Safety Analysis
 - Crash Tree Diagrams
 - Collision Diagrams

Roadway Safety Management Process

HSM Part B - Roadway Safety Management Process

1. Network Screening
2. Diagnosis
3. Countermeasure Selection
4. Economic Appraisal
5. Project Prioritization
6. Safety Effectiveness Evaluation

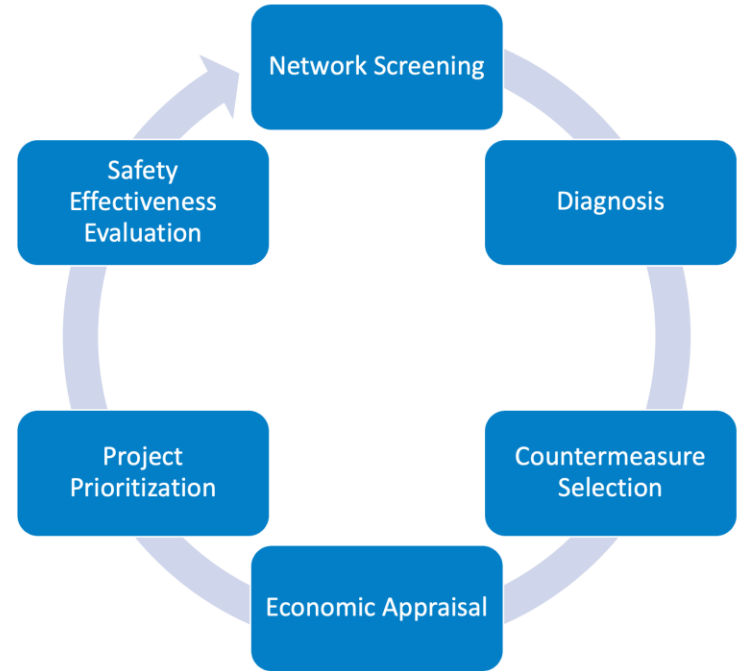


Figure 1. HSM 6-step Roadway Safety Management Process

Safe System Approach

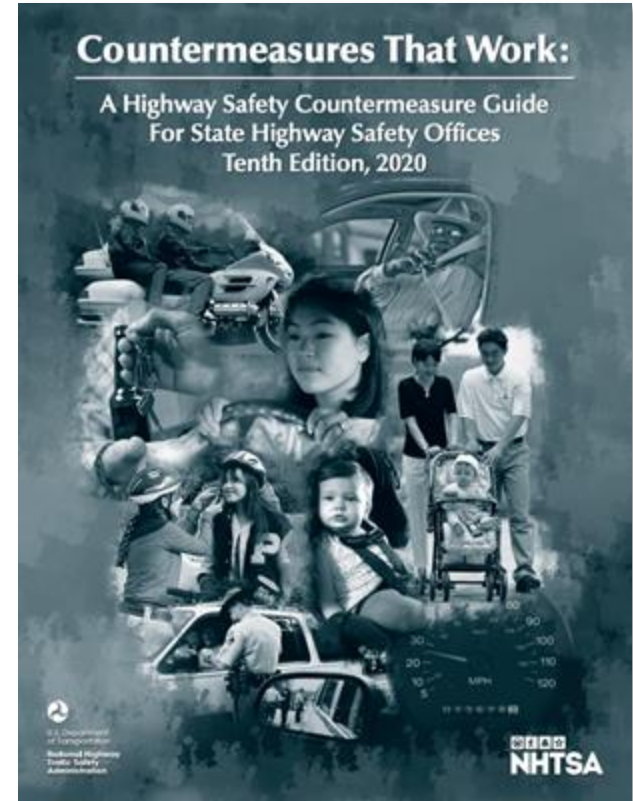
Principles of a Safe System Approach

- Humans Make Mistakes
- Humans are Vulnerable
- Responsibility is Shared
- Safety is Proactive
- Redundancy is Crucial

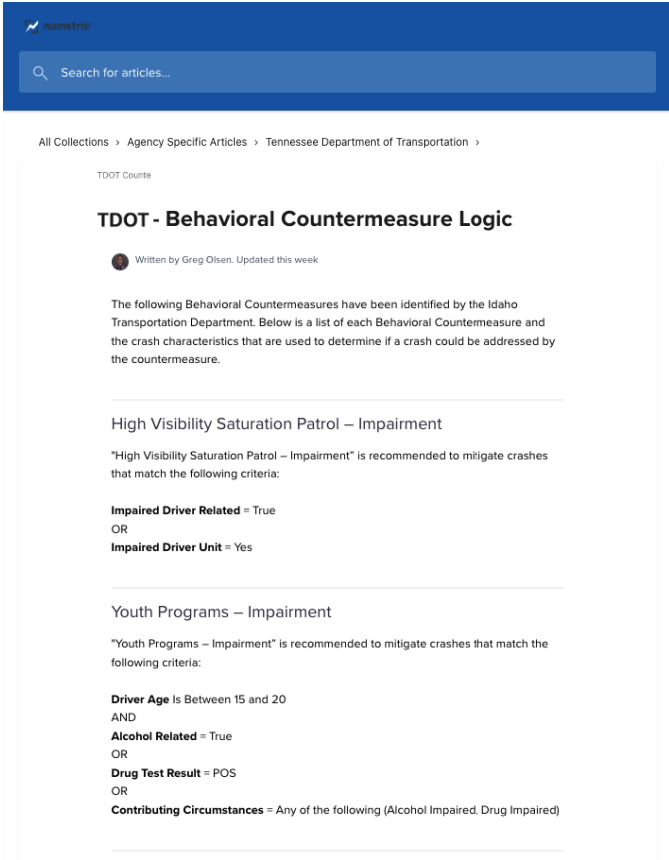


Behavioral Countermeasures

- High Visibility Saturation Patrol – Impairment
- Youth Programs – Impairment
- Enforcement of Drug Impaired Driving
- Short Term, High Visibility Seat Belt Law Enforcement
- Short Term, High Visibility Child Restraint/Booster Law Enforcement
- High Visibility Speed Enforcement
- High Visibility Cell Phone and Distracted Driving Enforcement
- Law Enforcement Roles – Older Drivers
- Impaired Pedestrian Patrol
- Bicycle Enforcement Strategies



Behavioral Countermeasure Logic



numetric

Search for articles...

All Collections > Agency Specific Articles > Tennessee Department of Transportation >

TDOT Counts

TDOT - Behavioral Countermeasure Logic

Written by Greg Olsen. Updated this week

The following Behavioral Countermeasures have been identified by the Idaho Transportation Department. Below is a list of each Behavioral Countermeasure and the crash characteristics that are used to determine if a crash could be addressed by the countermeasure.

High Visibility Saturation Patrol – Impairment

"High Visibility Saturation Patrol – Impairment" is recommended to mitigate crashes that match the following criteria:

Impaired Driver Related = True
OR
Impaired Driver Unit = Yes

Youth Programs – Impairment

"Youth Programs – Impairment" is recommended to mitigate crashes that match the following criteria:

Driver Age Is Between 15 and 20
AND
Alcohol Related = True
OR
Drug Test Result = POS
OR
Contributing Circumstances = Any of the following (Alcohol Impaired, Drug Impaired)

Short Term, High Visibility Seat Belt Law Enforcement

"Short Term, High Visibility Seat Belt Law Enforcement" is recommended to mitigate crashes that match the following criteria:

Unbelted Related = True

OR

Protective Device Name = Any of the following (None, Shoulder Belt Only, No Belts in Use, Air Bag Activated-No Belts in Use, Non-Activated Air Bag- No Belts in Use)
AND

Unit Type = Any of the following (Pickup, SUV/Crossover, Van - 1 to 8 seats, Van - 9 to 15 seats, Cargo Van, Car)

AND

Age ≥ 7

Short Term, High Visibility Child Restraint/Booster Law Enforcement

"Short Term, High Visibility Child Restraint/Booster Law Enforcement" is recommended to mitigate crashes that match the following criteria:

Protective Device Name = Any of the following (None, Shoulder Belt Only, No Belts in Use, Air Bag Activated- No Belts in Use, Non-Activated Air Bag- No Belts in Use)
AND

Unit Type = Any of the following (Pickup, SUV/Crossover, Van - 1 to 8 seats, Van - 9 to 15 seats, Cargo Van, Car)

AND

Age is between 0 and 6

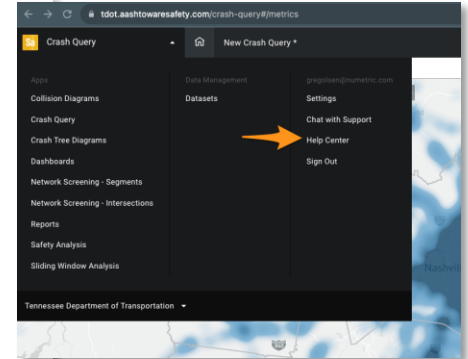
High Visibility Speed Enforcement

"High Visibility Speed Enforcement" is recommended to mitigate crashes that match the following criteria:

Contributing Circumstances = Any of the following (Speed Too Fast For Conditions or Exceeded Posted Speed)

High Visibility Cell Phone and Distracted Driving Enforcement

"High Visibility Cell Phone and Distracted Driving Enforcement" is recommended to



tdot.aashiowaresafety.com/crash-query/metrics

Crash Query

New Crash Query *

Apps

- Collision Diagrams
- Crash Query
- Crash Tree Diagrams
- Dashboards
- Network Screening - Segments
- Network Screening - Intersections
- Reports
- Safety Analysis
- Sliding Window Analysis

Data Management

- Datasets

sig@numetric.com

- Settings
- Chat with Support
- Help Center
- Sign Out

Tennessee Department of Transportation

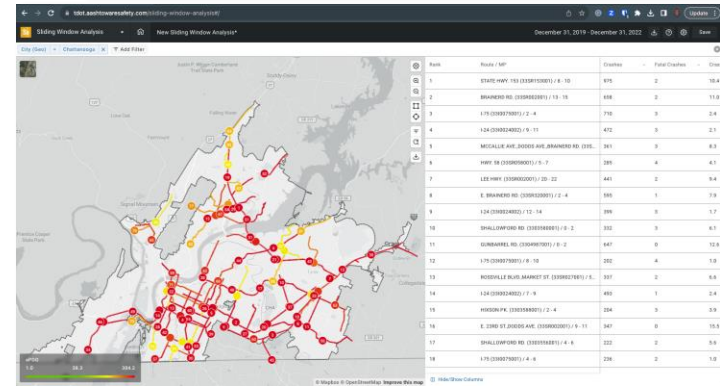
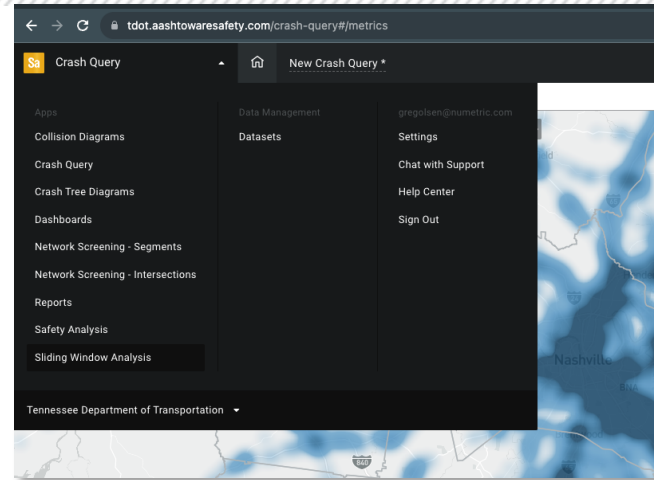
Sliding Window Analysis

Purpose of Sliding Window Analysis

- It is a frequency-based Network Screening approach that helps users determine where the most crashes are occurring along their roadway network in a given sized window.
- Users can determine the size of the window they would like to use to segment their roadways.
- Users can apply filters to narrow down their search criteria.

Sliding Window Analysis Deliverables

- On-demand Network Screenings
- Network Screening Reports
- Spreadsheet downloads



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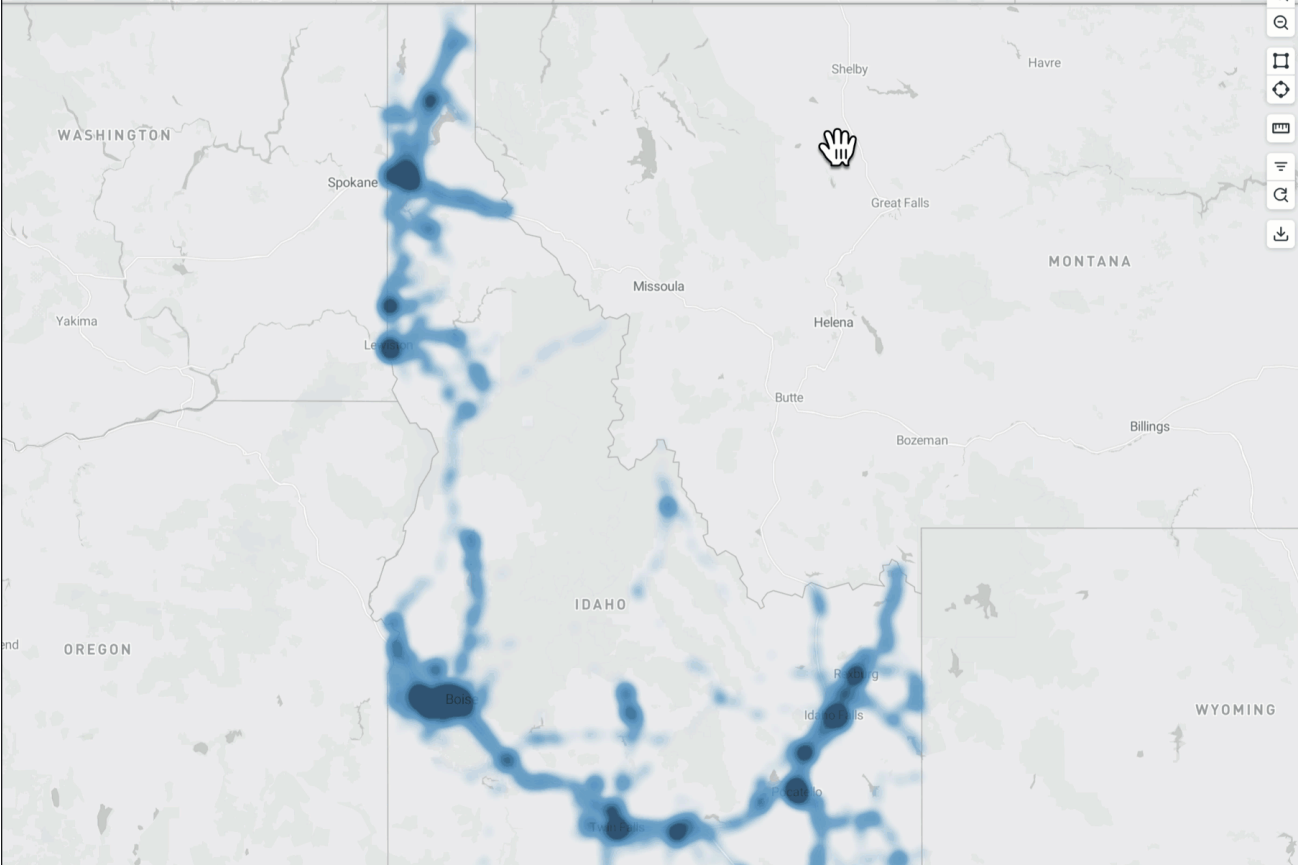
For access, please contact:
Jeff Murphy
jeff.murphy@tn.gov



Sliding Window Analysis

Add Filter

Showing 338,716 of 338,759 Crashes



- ⚙️
- 🔍
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- 📏
- 🔄
- 📄
- ☰
- 🔍
- 📌

Metrics Chart Builder Raw Table

ITD Crash Summary		Crash -New
Total Crashes	338,759	100.00%
Intersection Related	139,212	41.09%
Fixed Object	65,397	19.30%
CMV Related	29,354	8.67%
Impaired Driver Related	21,468	6.34%
Alcohol Related	18,087	5.34%
Wild Animal Related	17,361	5.12%
Distracted Driver Related	13,282	3.92%
Show all (5 more)	23,007	6.79%

Date & Time (Year)		Crash -New
2023	5,619	1.66%
2022	27,555	8.13%
2021	27,707	8.18%
2020	22,694	6.70%
2019	27,222	8.04%
2018	24,333	7.18%
2017	25,941	7.66%
2016	25,511	7.53%
Show all (8 more)	152,177	44.94%

Crash Severity (# of Crashes)		Crash -New
(O) Property Damage Report	217,919	64.33%
(C) Possible Injury/Complaint	63,281	18.68%
(B) Suspected Minor/Visible Injury	40,387	11.92%
(A) Suspected Serious Injury	14,411	4.25%
(K) Fatal Injury	2,761	0.82%

- K
- A
- B
- C
- O

← → ↻ itd.aashtowaresafety.com/crash-query#/metrics

Sa Crash Query ▲ 🏠 New Crash Query *

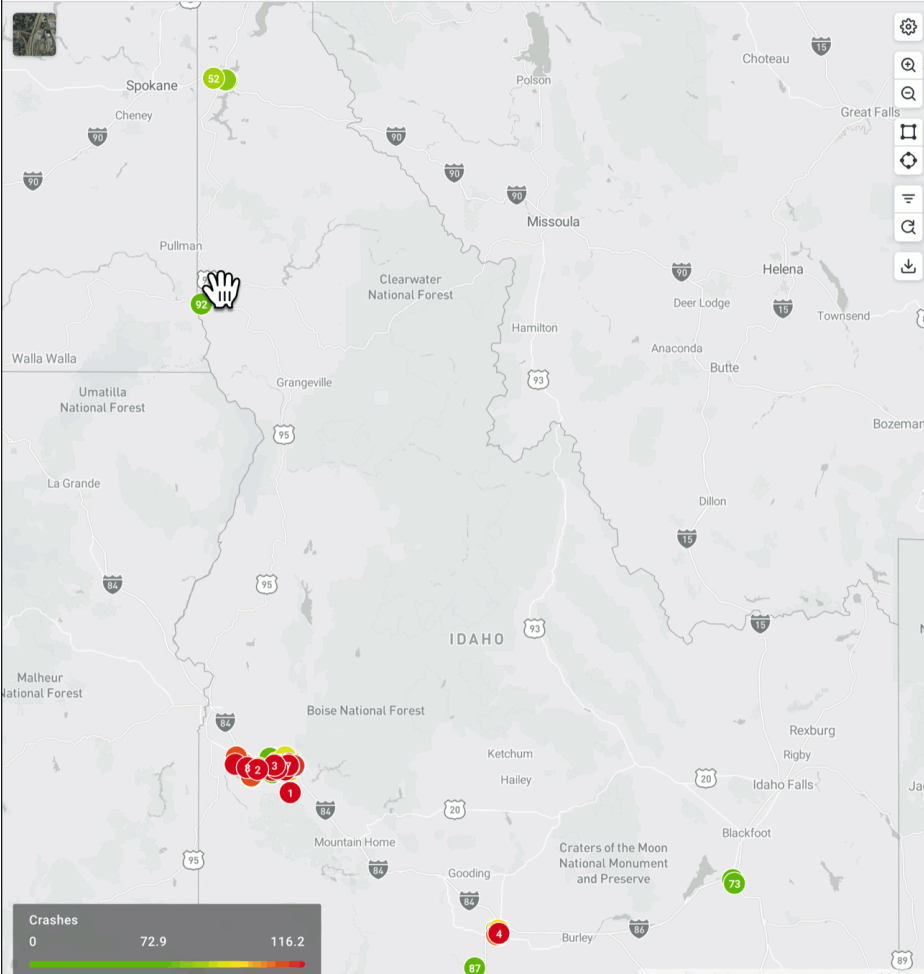
Apps	Data Management	audraengle@numetric.com
Crash Query	Datasets	Settings
Dashboards	Dictionary	Chat with Support
Network Screening - Segments	Tables	Help Center
Reports	Sources	Sign Out
Safety Analysis	Queues	
Sliding Window Analysis	Schemas	
	Configuration	

Idaho Transportation Department ▼

Yakima

Missouri

☰ Add Filter

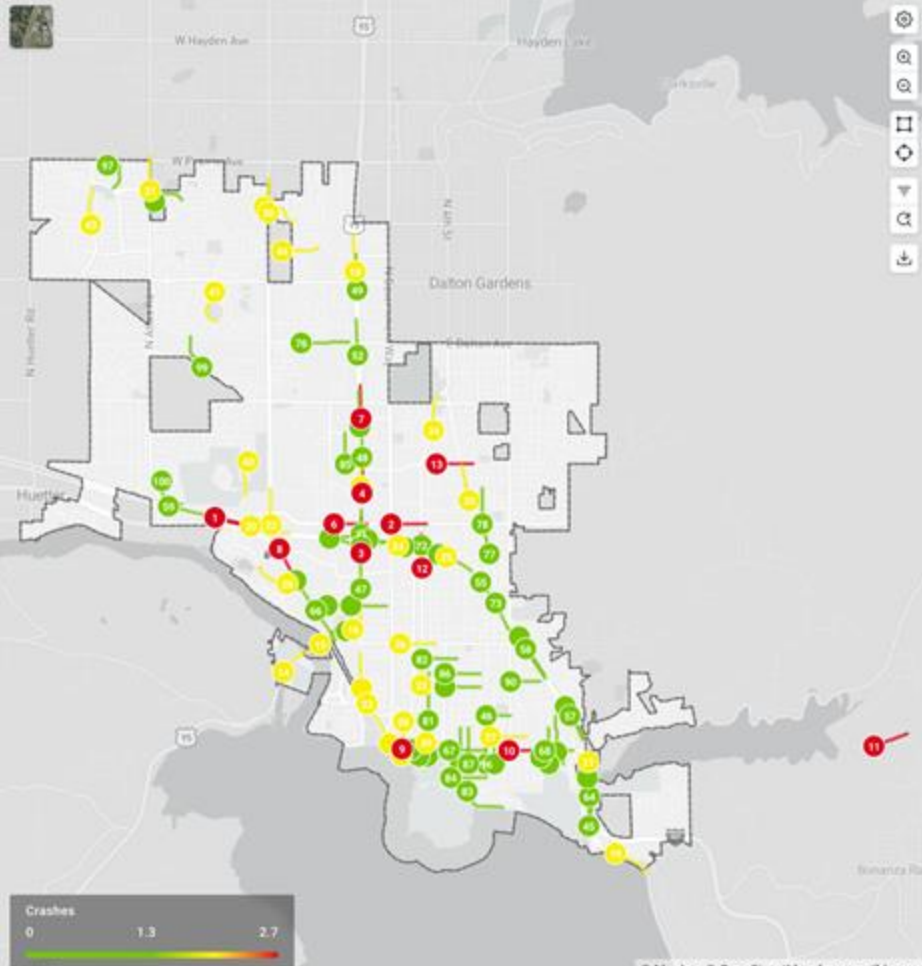


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- 📄

Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	05573APO000 / 0 - 0.3	209	0	3338.4
2	Garrity (02042AIN084) / 5.3 - 5.6	150	0	2386.5
3	02000AOH000 / 2.5 - 2.8	146	0	2860.8
4	Blue Lakes (02043AUS093) / 6.5 - 6.8	136	0	1581.3
5	Eagle (01990ASH055) / 29.2 - 29.5	133	0	2068.5
6	Meridian (02150ASH069) / 7.5 - 7.8	133	0	2170.0
7	02000AOH000 / 8.4 - 8.7	131	0	1531.2
8	Karcher, SH 55 (01990ASH055) / 15.9 - 16.2	130	0	1445.4
9	02590AOH000 / 7 - 7.3	124	0	1749.8
10	05574APO000 / 0 - 0.3	119	0	1388.0
11	02740AOH000 / 1.7 - 2	117	0	1413.5
12	02000AOH000 / 3.5 - 3.8	114	0	1653.8
13	01990DSH055 / 13.4 - 13.7	112	0	1436.3
14	02000AOH000 / 6.9 - 7.2	110	0	974.2
15	Front (02070DUS020) / 48.4 - 48.7	110	0	1134.1
16	12th Avenue (02160ASH045) / 16 - 16.3	109	0	1226.4
17	02705AOH000 / 4.2 - 4.5	109	0	926.2
18	02753AOH000 / 0.7 - 1	109	0	766.5
19	Simplot (02050ASH019) / 19.7 - 20	107	0	1262.6
20	Homedale (02041AIN084) / 0 - 0.3	105	0	1654.7
21	02590AOH000 / 3.3 - 3.6	104	0	1963.7

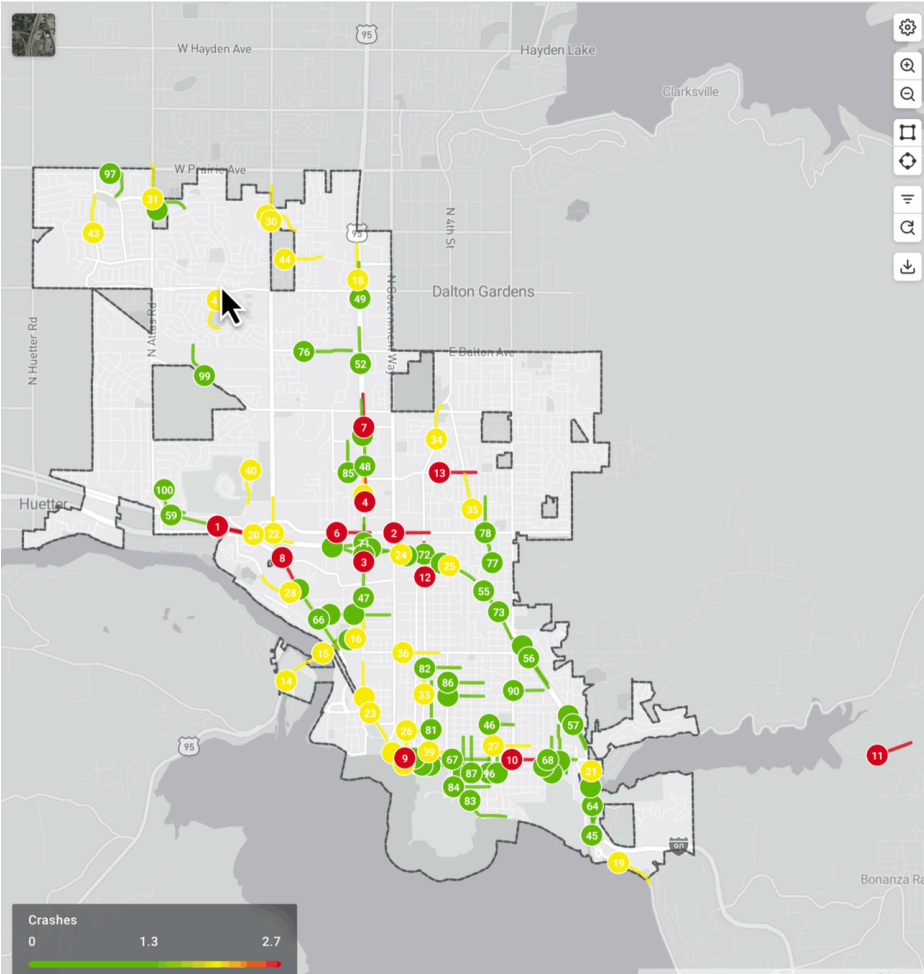


City (Geo) x Coueur d'Alene x Behavioral Countermeasures x High Visibility Saturation Patrol -Impairment x Add Filter



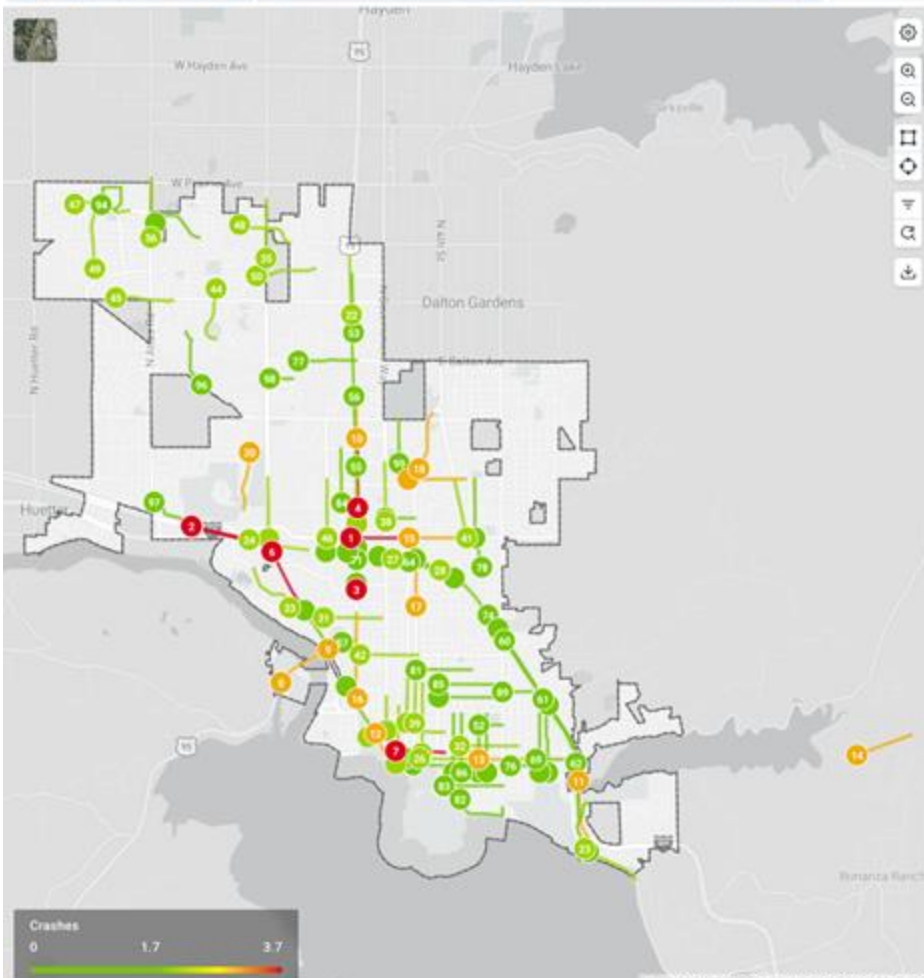
Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	01660DIN090 / 10.8 - 11.1	5	0	145.9
2	06110A0H000 / 1 - 1.3	5	0	324.5
3	Lincoln, US 95 (01540AUS095) / 417.6 - 417.9	4	1	3168.1
4	US 95 (01540AUS095) / 418.1 - 418.4	4	0	201.3
5	190 (01660AIN090) / 10.8 - 11.1	4	0	182.6
6	06110A0H000 / 0.5 - 0.8	4	1	3130.5
7	Lincoln, US 95 (01540AUS095) / 418.7 - 419	3	0	59.4
8	01662A0H000 / 0.1 - 0.4	3	0	59.4
9	01662A0H000 / 2.1 - 2.4	3	0	143.9
10	01662A0H000 / 3 - 3.3	3	0	78.2
11	05605AP0000 / 0 - 0.3	3	0	3.0
12	06160A0H000 / 1.5 - 1.8	3	0	40.7
13	06230A0H000 / 0.4 - 0.7	3	0	40.7
14	US 95 (01540AUS095) / 416.2 - 416.5	2	0	142.9
15	US 95 (01540AUS095) / 416.6 - 416.9	2	0	39.7
16	Lincoln (01540AUS095) / 416.9 - 417.2	2	0	2.0
17	01540DUS095 / 418.5 - 418.8	2	0	58.4
18	01540DUS095 / 420.3 - 420.6	2	0	20.7
19	01660A0H000 / 1 - 1.3	2	0	2.0
20	01660DIN090 / 11.1 - 11.4	2	0	2.0
21	01660DIN090 / 14.9 - 15.2	2	0	2.0

City (Geo) = Coeur d'Alene X Behavioral Countermeasures = High Visibility Saturation Patrol -Impairment X Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	01660DIN090 / 10.8 - 11.1	5	0	145.9
2	06110AOH000 / 1 - 1.3	5	0	324.5
3	Lincoln, US 95 (01540AUS095) / 417.6 - 417.9	4	1	3168.1
4	US 95 (01540AUS095) / 418.1 - 418.4	4	0	201.3
5	I 90 (01660AIN090) / 10.8 - 11.1	4	0	182.6
6	06110AOH000 / 0.5 - 0.8	4	1	3130.5
7	Lincoln, US 95 (01540AUS095) / 418.7 - 419	3	0	59.4
8	01662AOH000 / 0.1 - 0.4	3	0	59.4
9	01662AOH000 / 2.1 - 2.4	3	0	143.9
10	01662AOH000 / 3 - 3.3	3	0	78.3
11	05605APO000 / 0 - 0.3	3	0	3.0
12	06160AOH000 / 1.5 - 1.8	3	0	40.7
13	06230AOH000 / 0.4 - 0.7	3	0	40.7
14	US 95 (01540AUS095) / 416.2 - 416.5	2	0	142.9
15	US 95 (01540AUS095) / 416.6 - 416.9	2	0	39.7
16	Lincoln (01540AUS095) / 416.9 - 417.2	2	0	2.0
17	01540DUS095 / 418.5 - 418.8	2	0	58.4
18	01540DUS095 / 420.3 - 420.6	2	0	20.7
19	01660AOH000 / 1 - 1.3	2	0	2.0
20	01660DIN090 / 11.1 - 11.4	2	0	2.0
21	01660DIN090 / 14.9 - 15.2	2	0	2.0

[Hide/Show Columns](#)



Rank	Route / MP	Crashes
1	06110AOH000 / 0.7 - 1.2	7
2	01660DIN090 / 10.6 - 11.1	6
3	Lincoln, US 95 (01540AUS095) / 417.4 - 417.9	5
4	US 95 (01540AUS095) / 418.1 - 418.6	5
5	I 90 (01660AIN090) / 10.6 - 11.1	4
6	01662AOH000 / 0 - 0.5	4
7	08501AOH000 / 0.1 - 0.6	4
8	US 95 (01540AUS095) / 416.2 - 416.7	3
9	Lincoln, US 95 (01540AUS095) / 416.7 - 417.2	3
10	Lincoln, US 95 (01540AUS095) / 418.6 - 419.1	3
11	01660DIN090 / 15 - 15.5	3
12	01662AOH000 / 1.8 - 2.3	3
13	01662AOH000 / 2.8 - 3.3	3
14	05605APO000 / 0 - 0.5	3
15	06110AOH000 / 1.2 - 1.7	3
16	06120AOH000 / 0 - 0.5	3
17	06160AOH000 / 1.3 - 1.8	3
18	06180AOH000 / 0.6 - 1.1	3
19	06230AOH000 / 0.2 - 0.7	3
20	13651ADH000 / 0 - 0.5	3
21	015400US095 / 418.3 - 418.8	2

Settings Cancel Apply

Window Options

WINDOW LENGTH (MILES)

0.5

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

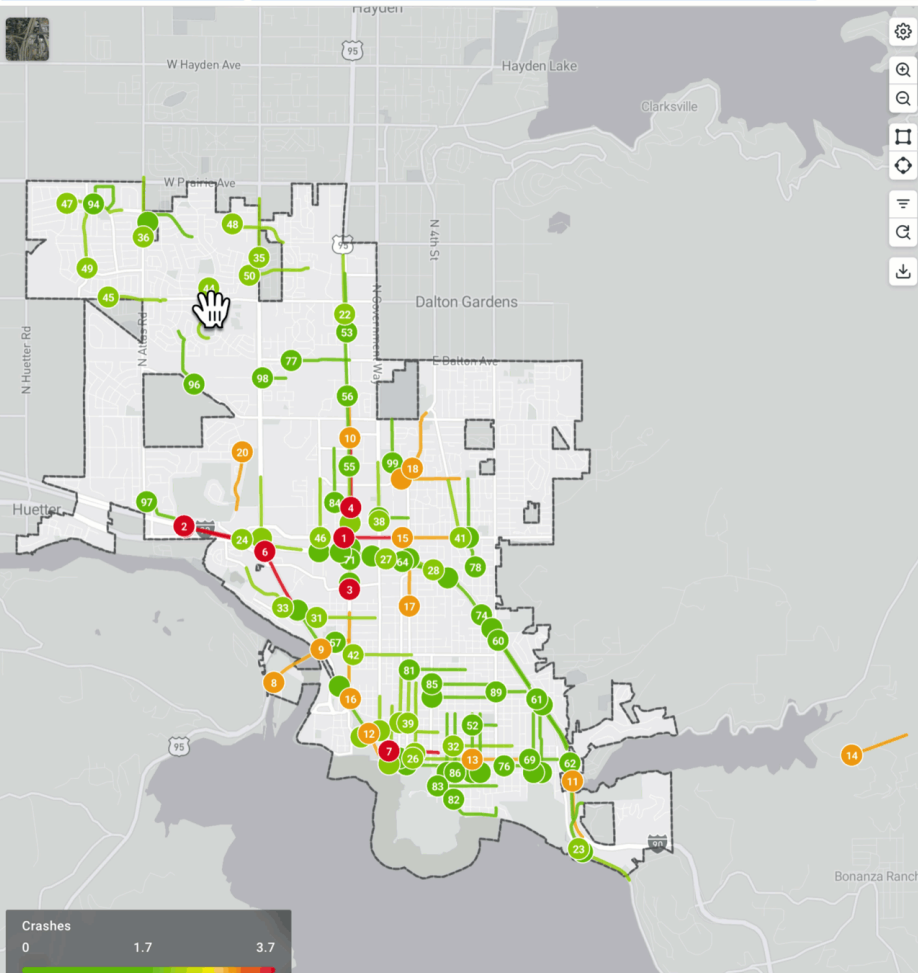
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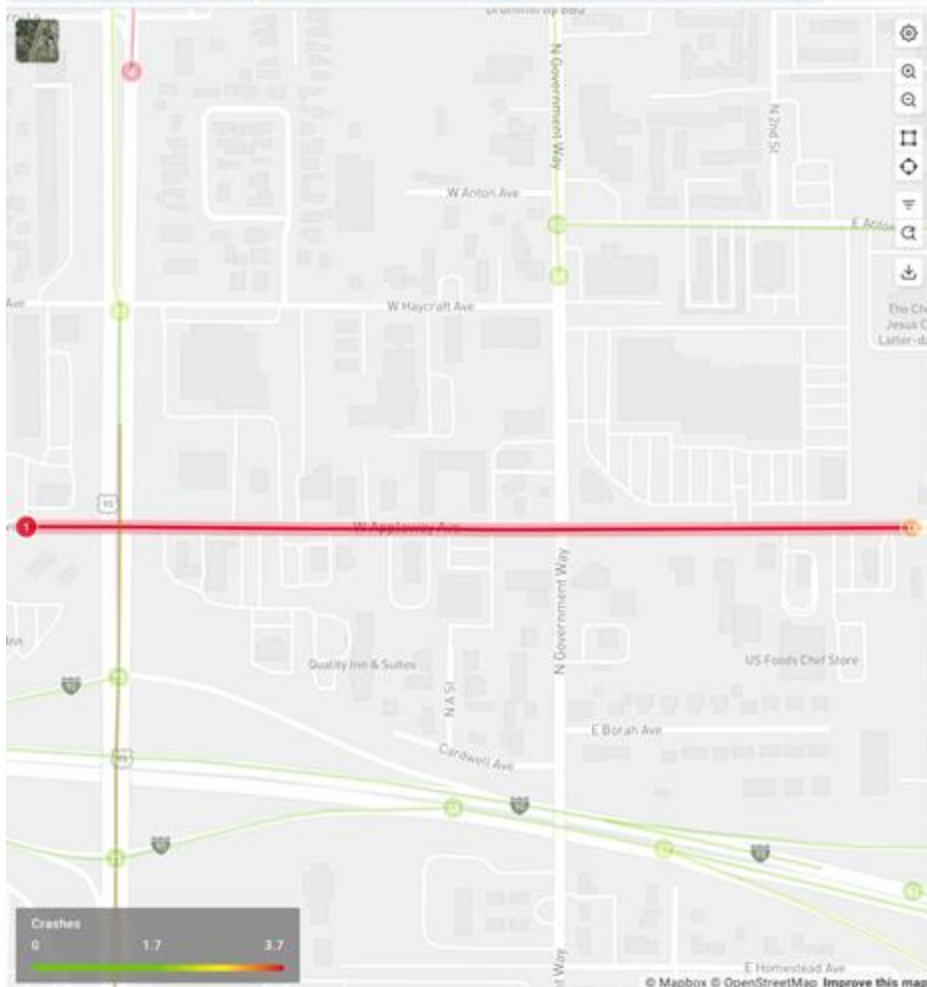
MINIMUM CRASH RATE

0

City (Geo) = Coeur d'Alene Behavioral Countermeasures = High Visibility Saturation Patrol -Impairment Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	06110AOH000 / 0.7 - 1.2	7	1	3171.1
2	01660DIN090 / 10.6 - 11.1	6	0	165.7
3	Lincoln, US 95 (01540AUS095) / 417.4 - 417.9	5	1	3169.1
4	US 95 (01540AUS095) / 418.1 - 418.6	5	0	202.3
5	I 90 (01660AIN090) / 10.6 - 11.1	4	0	182.6
6	01662AOH000 / 0 - 0.5	4	0	98.1
7	08501AOH000 / 0.1 - 0.6	4	0	4.0
8	US 95 (01540AUS095) / 416.2 - 416.7	3	0	143.9
9	Lincoln, US 95 (01540AUS095) / 416.7 - 417.2	3	0	40.7
10	Lincoln, US 95 (01540AUS095) / 418.6 - 419.1	3	0	59.4
11	01660DIN090 / 15 - 15.5	3	0	40.7
12	01662AOH000 / 1.8 - 2.3	3	0	143.9
13	01662AOH000 / 2.8 - 3.3	3	0	78.3
14	05605AP0000 / 0 - 0.5	3	0	3.0
15	06110AOH000 / 1.2 - 1.7	3	0	284.9
16	06120AOH000 / 0 - 0.5	3	1	3148.4
17	06160AOH000 / 1.3 - 1.8	3	0	40.7
18	06180AOH000 / 0.6 - 1.1	3	0	40.7
19	06230AOH000 / 0.2 - 0.7	3	0	40.7
20	13651AOH000 / 0 - 0.5	3	0	21.7
21	01540DUS095 / 418.3 - 418.8	2	0	58.4

City (Geo) × Coeur d'Alene × Behavioral Countermeasures × High Visibility Saturation Patrol -Impairment × + Add Filter

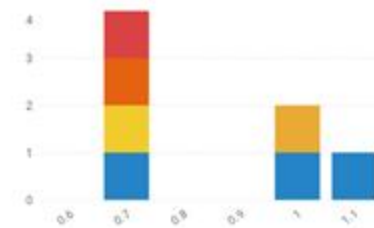
Rank	Route / MP	Crashes
1	06110A0H000 / 0.7 - 1.2	7
2	01660DIN090 / 10.6 - 11.1	6
3	Lincoln, US 95 (01540AUS095) / 417.4 - 417.9	5
4	US 95 (01540AUS095) / 418.1 - 418.6	5
5	190 (01660AIN090) / 10.6 - 11.1	4
6	01662A0H000 / 0 - 0.5	4
7	08501A0H000 / 0.1 - 0.6	4
8	US 95 (01540AUS095) / 416.2 - 416.7	3
9	Lincoln, US 95 (01540AUS095) / 416.7 - 417.2	3
10	Lincoln, US 95 (01540AUS095) / 418.6 - 419.1	3
11	01660DIN090 / 15 - 15.6	3
12	01662A0H000 / 1.8 - 2.3	3
13	01662A0H000 / 2.8 - 3.3	3
14	05605APO000 / 0 - 0.5	3
15	06110A0H000 / 1.2 - 1.7	3
16	06120A0H000 / 0 - 0.5	3
17	06160A0H000 / 1.3 - 1.8	3
18	06180A0H000 / 0.6 - 1.1	3
19	06230A0H000 / 0.2 - 0.7	3
20	13651A0H000 / 0 - 0.5	3
21	01540DUS095 / 418.3 - 418.8	2

06110A0H000 / 0.7 - 1.2 ×

Open in Safety Analysis

Rank	State
Current	1

Crashes by Milepoint



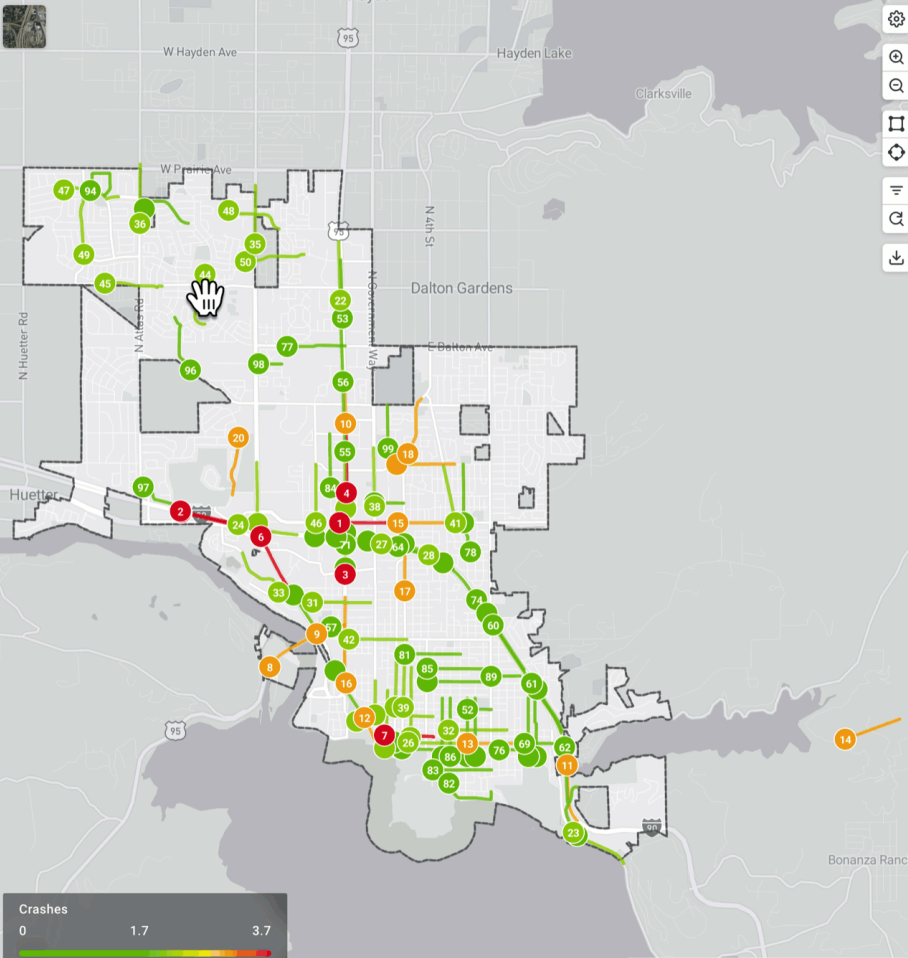
● K
 ● A
 ● B
 ● C
 ● D

Summary

Crashes	7
Fatal Crashes	1
ePDO	3,173.1
Crash Rate	0.0

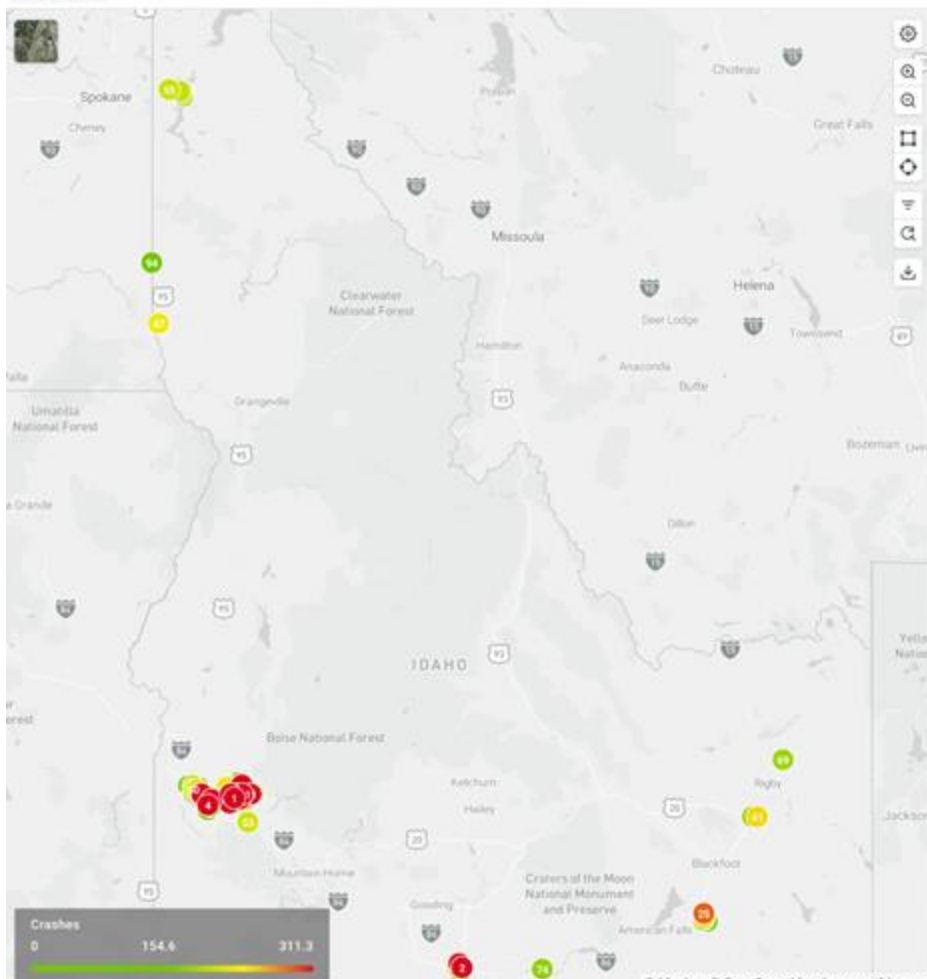
Hide/Show Columns

City (Geo) = Coeur d'Alene Behavioral Countermeasures = High Visibility Saturation Patrol -Impairment ⌵ Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	06110AOH000 / 0.7 - 1.2	7	1	3171.1
2	01660DIN090 / 10.6 - 11.1	6	0	165.7
3	Lincoln, US 95 (01540AUS095) / 417.4 - 417.9	5	1	3169.1
4	US 95 (01540AUS095) / 418.1 - 418.6	5	0	202.3
5	I 90 (01660AIN090) / 10.6 - 11.1	4	0	182.6
6	01662AOH000 / 0 - 0.5	4	0	98.1
7	08501AOH000 / 0.1 - 0.6	4	0	4.0
8	US 95 (01540AUS095) / 416.2 - 416.7	3	0	143.9
9	Lincoln, US 95 (01540AUS095) / 416.7 - 417.2	3	0	40.7
10	Lincoln, US 95 (01540AUS095) / 418.6 - 419.1	3	0	59.4
11	01660DIN090 / 15 - 15.5	3	0	40.7
12	01662AOH000 / 1.8 - 2.3	3	0	143.9
13	01662AOH000 / 2.8 - 3.3	3	0	78.3
14	05605APO000 / 0 - 0.5	3	0	3.0
15	06110AOH000 / 1.2 - 1.7	3	0	284.9
16	06120AOH000 / 0 - 0.5	3	1	3148.4
17	06160AOH000 / 1.3 - 1.8	3	0	40.7
18	06180AOH000 / 0.6 - 1.1	3	0	40.7
19	06230AOH000 / 0.2 - 0.7	3	0	40.7
20	13651AOH000 / 0 - 0.5	3	0	21.7
21	01540DUS095 / 418.3 - 418.8	2	0	58.4

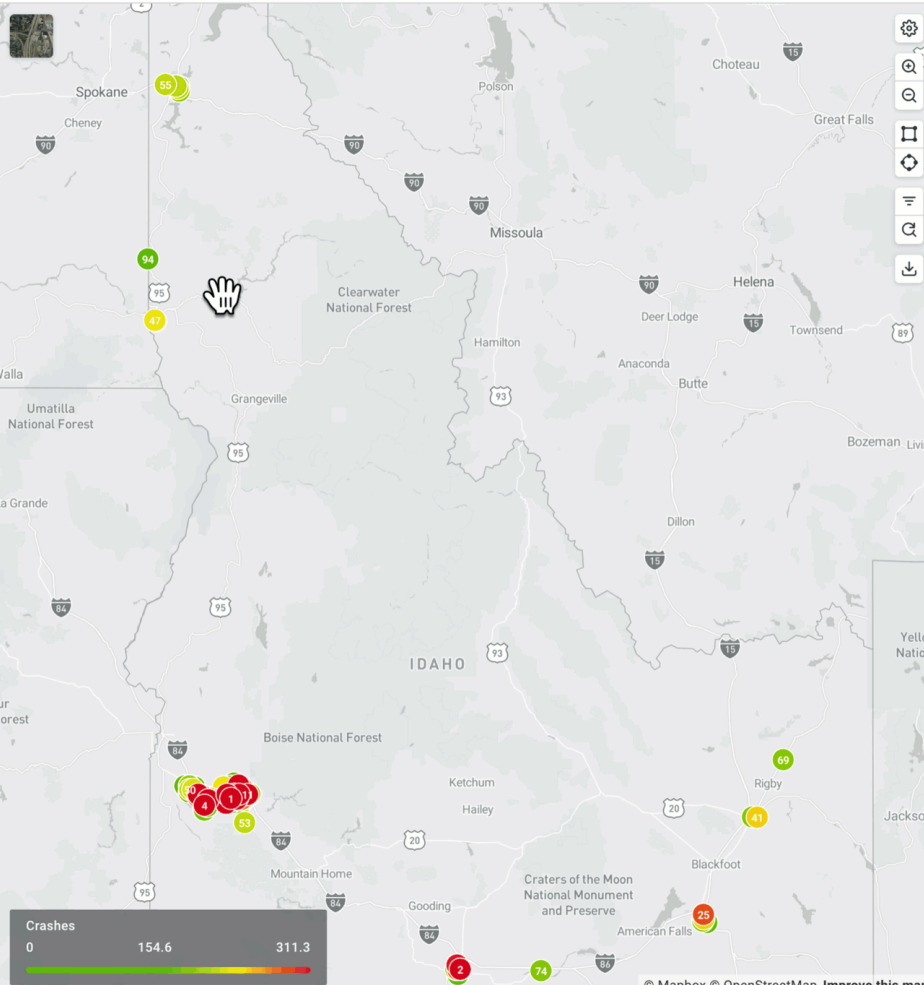
Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePOD
1	Eagle (01990ASH055) / 29 - 31	516	0	7493.2
2	Blue Lakes (02043AU093) / 6 - 8	493	1	8810.6
3	02000AGH000 / 2 - 4	469	0	7889.0
4	12th Avenue, 12th South, 2nd South (02160ASH0...	465	0	7089.1
5	02000AGH000 / 7 - 9	449	1	8301.2
6	02590AGH000 / 6 - 8	441	1	8642.6
7	02000AGH000 / 5 - 7	426	1	9520.5
8	02611AGH000 / 2 - 4	367	0	4087.8
9	Garry (02042AIN084) / 4 - 6	359	0	5836.3
10	I 84 IC 44 WB On Ramp, Meridian, SH 69 (02150...	358	2	12772.2
11	Broadway, Myrtle (02070AUS020) / 48 - 50	353	2	9979.1
12	Gary, Glenwood, State (02130ASH044) / 21 - 23	334	0	4175.5
13	019900SH055 / 13 - 15	320	0	4941.0
14	Centennial, Cleveland, Homedale (02041AIN084)...	318	0	4480.0
15	11th North, 11th South, 3rd South, Garry (02042...	318	1	7569.1
16	Broadway, Front, I 184 (02070AUS020) / 48 - 50	313	0	3648.0
17	02737AGH000 / 0 - 2	309	0	3917.8
18	Blue Lakes, Poleline (02220AUS093) / 48 - 50	303	0	3242.8
19	02590AGH000 / 2 - 4	303	0	6287.0
20	3rd South, Nampa-Caldwell (02042AIN084) / 0 - 2	302	0	3852.5
21	Eagle (01990ASH055) / 31 - 33	300	2	10713.0

Hide/Show Columns

☰ Add Filter

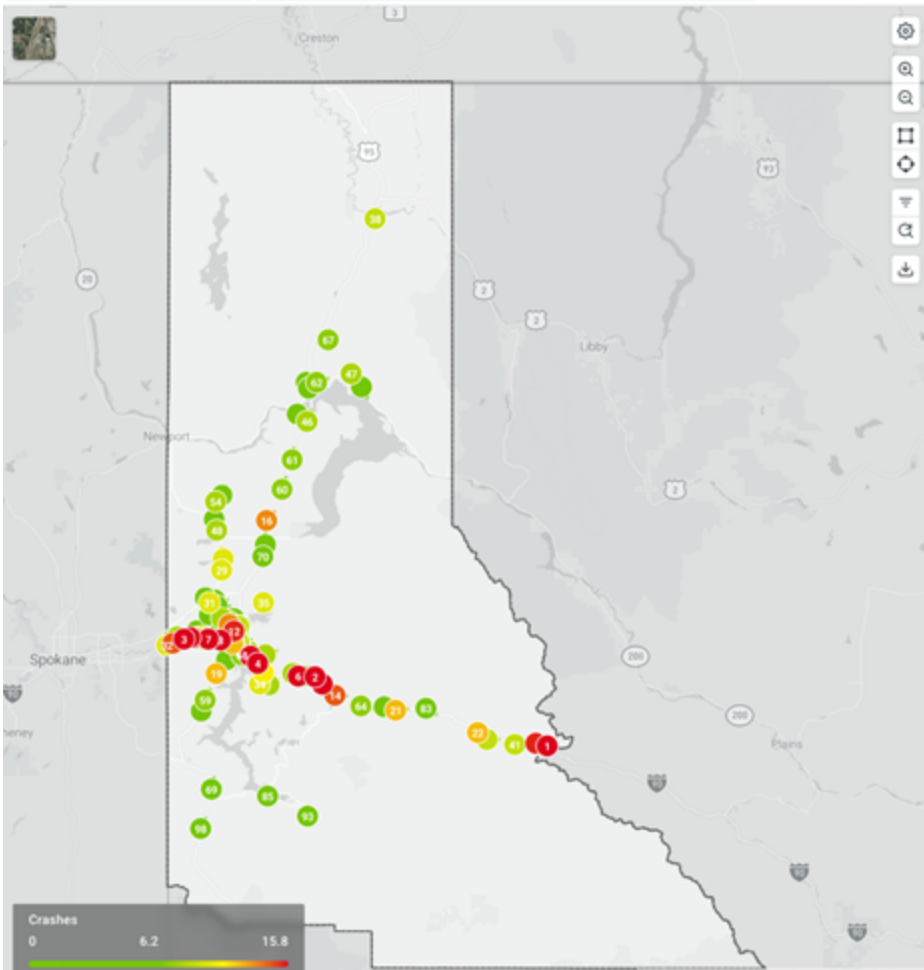


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Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	Eagle (01990ASH055) / 29 - 31	516	0	7493.2
2	Blue Lakes (02043AUS093) / 6 - 8	493	1	8810.6
3	02000AOH000 / 2 - 4	469	0	7889.0
4	12th Avenue, 12th South, 2nd South (02160ASH0...	465	0	7089.1
5	02000AOH000 / 7 - 9	449	1	8301.2
6	02590AOH000 / 6 - 8	441	1	8642.6
7	02000AOH000 / 5 - 7	426	1	9520.5
8	02611AOH000 / 2 - 4	367	0	4087.8
9	Garrytt (02042AIN084) / 4 - 6	359	0	5836.3
10	I 84 IC 44 WB On Ramp, Meridian, SH 69 (02150...	358	2	12772.2
11	Broadway, Myrtle (02070AUS020) / 48 - 50	353	2	9979.1
12	Gary, Glenwood, State (02130ASH044) / 21 - 23	334	0	4175.5
13	01990DSH055 / 13 - 15	320	0	4941.0
14	Centennial, Cleveland, Homedale (02041AIN084)...	318	0	4480.0
15	11th North, 11th South, 3rd South, Garrytt (02042...	318	1	7569.1
16	Broadway, Front, I 184 (02070DUS020) / 48 - 50	313	0	3648.0
17	02737AOH000 / 0 - 2	309	0	3917.8
18	Blue Lakes, Poleline (02220AUS093) / 48 - 50	303	0	3242.8
19	02590AOH000 / 2 - 4	303	0	6287.0
20	3rd South, Nampa-Caldwell (02042AIN084) / 0 - 2	302	0	3852.5
21	Eagle (01990ASH055) / 31 - 33	300	2	10713.0

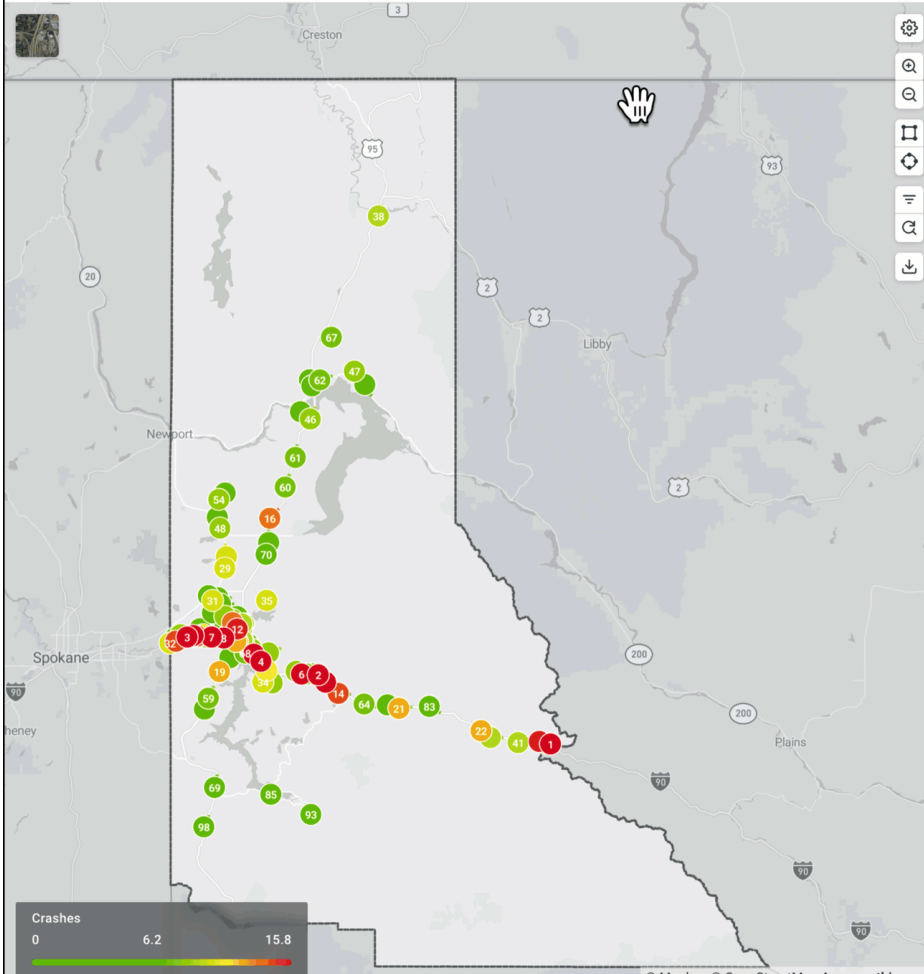
 Hide/Show Columns

Districts (Geo) x District 1 x Behavioral Countermeasures x High Visibility Speed Enforcement x Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	01660DIN090 / 72 - 74	42	0	549.6
2	190 (01660AIN090) / 28 - 30	32	1	3299.5
3	190 (01660AIN090) / 3 - 5	32	0	483.1
4	190 (01660AIN090) / 17 - 19	30	0	199.2
5	01660DIN090 / 4 - 6	25	0	335.1
6	01660DIN090 / 25 - 27	24	0	315.0
7	190 (01660AIN090) / 7 - 9	23	0	154.7
8	01660DIN090 / 9 - 11	21	0	133.6
9	01660DIN090 / 30 - 32	19	0	188.0
10	01660DIN090 / 15 - 17	17	0	364.8
11	01660DIN090 / 70 - 72	15	0	127.4
12	06103ADH000 / 2 - 4	15	0	250.0
13	01660DIN090 / 1 - 3	14	0	51.7
14	01660DIN090 / 33 - 35	14	0	211.2
15	190 IC 5 WB On Ramp (01676AIN090) / 0 - 2	14	0	89.1
16	US 95 (01540AUS095) / 439 - 441	13	1	3017.5
17	190 (01660AIN090) / 9 - 11	13	0	228.9
18	02017ADH000 / 9 - 11	13	0	125.8
19	US 95 (01540AUS095) / 411 - 413	12	0	152.9
20	190 (01660AIN090) / 11 - 13	12	0	228.3
21	190 (01660AIN090) / 44 - 46	12	0	152.9

Districts (Geo) = District 1 Behavioral Countermeasures = High Visibility Speed Enforcement ⌵ Add Filter

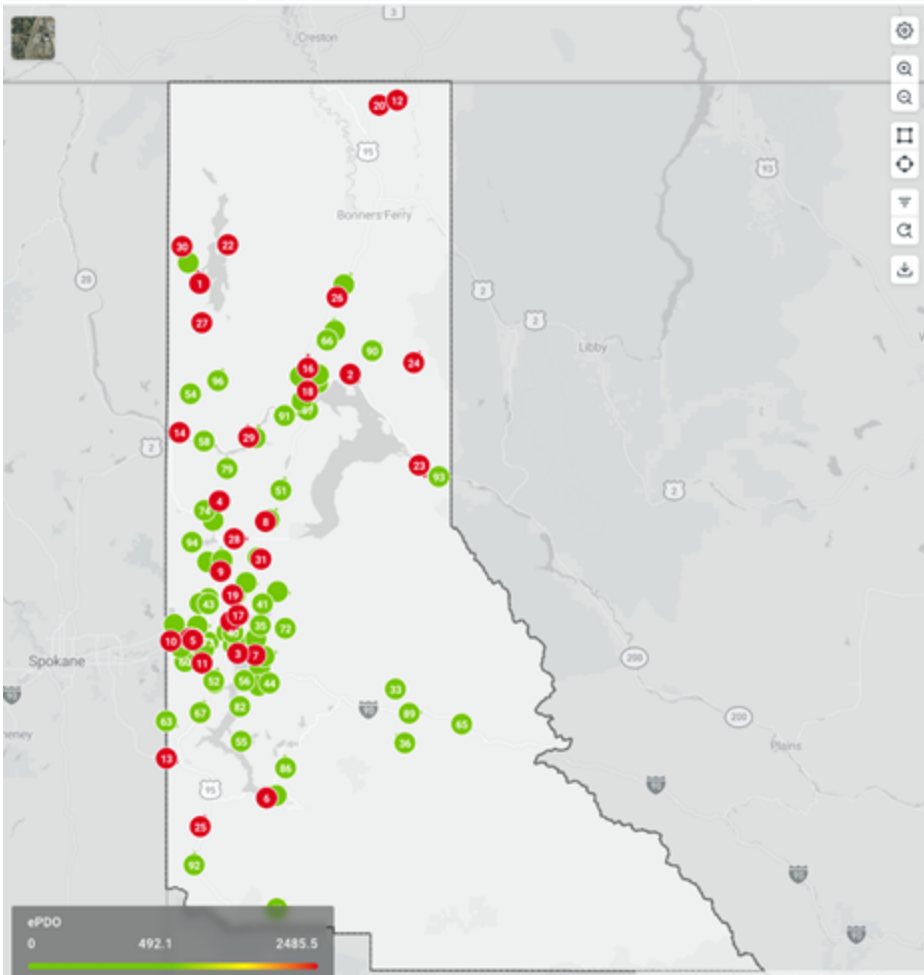


Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	01660DIN090 / 72 - 74	42	0	549.6
2	I 90 (01660AIN090) / 28 - 30	32	1	3299.5
3	I 90 (01660AIN090) / 3 - 5	32	0	483.1
4	I 90 (01660AIN090) / 17 - 19	30	0	199.2
5	01660DIN090 / 4 - 6	25	0	335.1
6	01660DIN090 / 25 - 27	24	0	315.0
7	I 90 (01660AIN090) / 7 - 9	23	0	154.7
8	01660DIN090 / 9 - 11	21	0	133.6
9	01660DIN090 / 30 - 32	19	0	188.0
10	01660DIN090 / 15 - 17	17	0	364.8
11	01660DIN090 / 70 - 72	15	0	127.4
12	06103AOH000 / 2 - 4	15	0	250.0
13	01660DIN090 / 1 - 3	14	0	51.7
14	01660DIN090 / 33 - 35	14	0	211.2
15	I 90 IC 5 WB On Ramp (01676AIN090) / 0 - 2	14	0	89.1
16	US 95 (01540AUS095) / 439 - 441	13	1	3017.5
17	I 90 (01660AIN090) / 9 - 11	13	0	228.9
18	02017AOH000 / 9 - 11	13	0	125.8
19	US 95 (01540AUS095) / 411 - 413	12	0	152.9
20	I 90 (01660AIN090) / 11 - 13	12	0	228.3
21	I 90 (01660AIN090) / 44 - 46	12	0	152.9

[Hide/Show Columns](#)

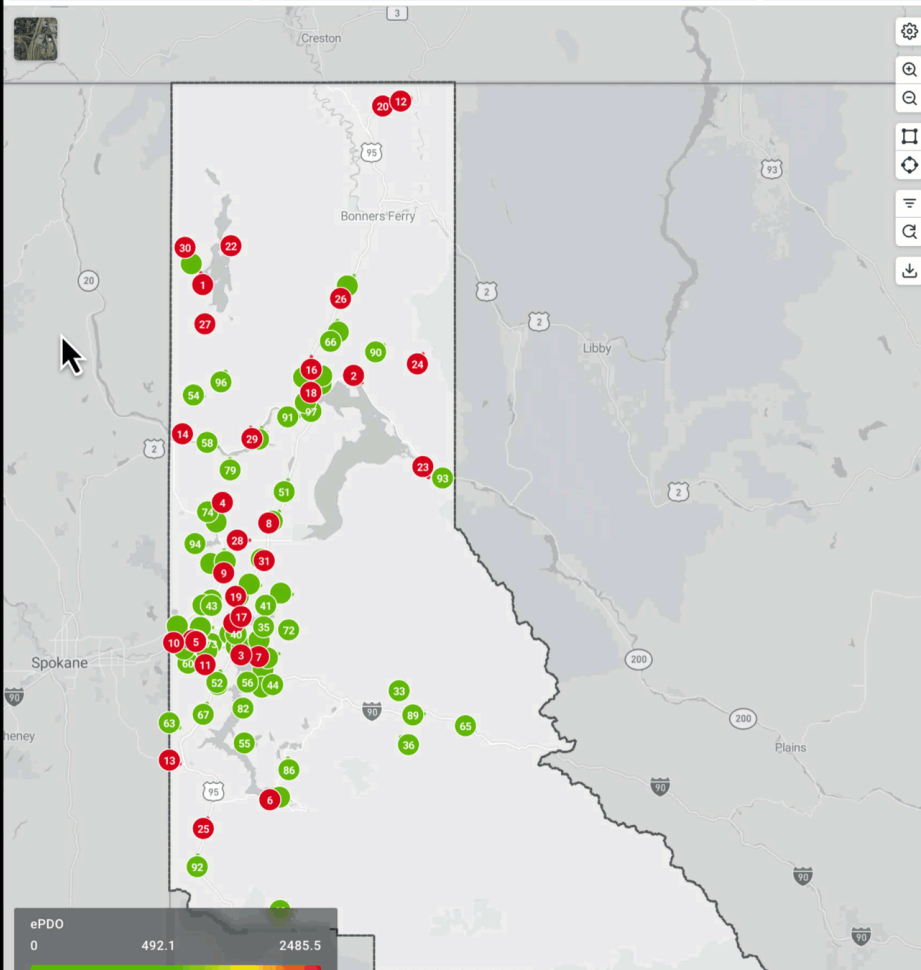


Districts (Geo) x District 1 x Behavioral Countermeasures x High Visibility Speed Enforcement x Road Functional Class x Interstate x Add Filter



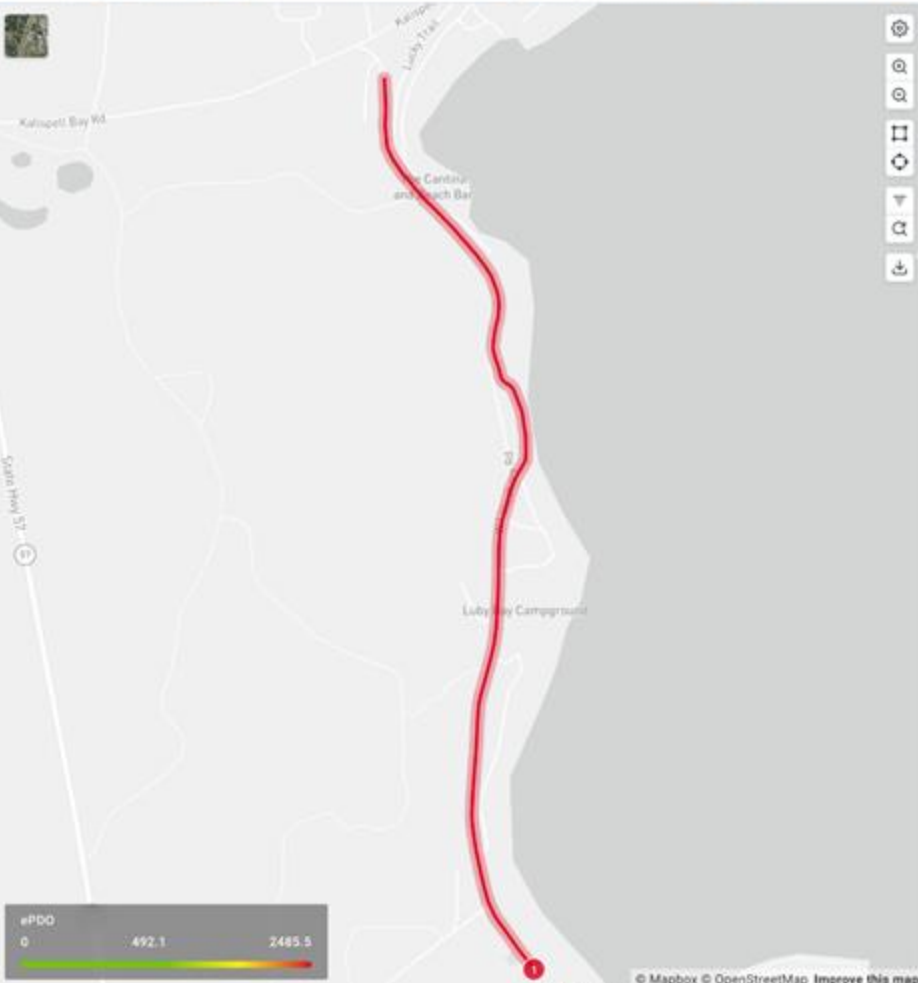
Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	00826AOH000 / 5 - 7	2	2	Equivalent to Property Damage Only
2	SH 200 (01610ASH200) / 8 - 10	8	1	(O) Property Damage-Only 1.0
3	06120AOH000 / 0 - 2	4	1	(C) Possible Injury 19.7
4	02536AOH000 / 4 - 6	6	1	(B) Suspected Minor Injury 38.7
5	Seltice, Spokane (01661AIN090) / 0 - 2	10	1	(A) Suspected Serious Injury 141.9
6	SH 5 (01820ASH005) / 11 - 13	6	1	(K) Fatal Injury 2,967.8
7	06300AOH000 / 1 - 3	3	1	3132.5
8	US 95 (01540AUS095) / 439 - 441	13	1	3070.7
9	SH 41 (01630ASH041) / 12 - 14	10	1	3029.2
10	01661AOH000 / 1 - 3	4	1	3026.2
11	02013AOH000 / 0 - 2	4	1	3017.5
12	US 95 (01540AUS095) / 517 - 519	3	1	3014.5
13	SH 58 (01810ASH058) / 0 - 2	3	1	3008.5
14	21948AOH000 / 1 - 3	2	1	3008.5
15	05950AOH000 / 0 - 2	4	1	3007.5
16	US 95 (01540AUS095) / 466 - 468	3	1	3007.5
17	01540DUS095 / 423 - 425	3	1	3007.5
18	SH 200 (01610ASH200) / 0 - 2	3	1	3006.5
19	SH 53 (01650ASH053) / 13 - 15	5	1	3006.5
20	US 95 (01540AUS095) / 514 - 516	2	1	2989.5
21	23750AOH000 / 0 - 2	2	1	2988.5

Districts (Geo) = District 1 X Behavioral Countermeasures = High Visibility Speed Enforcement X Road Functional Class = Interstate X Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	00826AOH000 / 5 - 7	2	2	5935.6
2	SH 200 (01610ASH200) / 8 - 10	8	1	3172.1
3	06120AOH000 / 0 - 2	4	1	3149.4
4	02536AOH000 / 4 - 6	6	1	3132.5
5	Seltice, Spokane (01661AIN090) / 0 - 2	10	1	3070.7
6	SH 5 (01820ASH005) / 11 - 13	6	1	3029.2
7	06300AOH000 / 1 - 3	3	1	3026.2
8	US 95 (01540AUS095) / 439 - 441	13	1	3017.5
9	SH 41 (01630ASH041) / 12 - 14	10	1	3014.5
10	01661AOH000 / 1 - 3	4	1	3008.5
11	02013AOH000 / 0 - 2	4	1	3008.5
12	US 95 (01540AUS095) / 517 - 519	3	1	3007.5
13	SH 58 (01810ASH058) / 0 - 2	3	1	3007.5
14	21948AOH000 / 1 - 3	2	1	3006.5
15	05950AOH000 / 0 - 2	4	1	2989.5
16	US 95 (01540AUS095) / 466 - 468	3	1	2988.5
17	01540DUS095 / 423 - 425	3	1	2988.5
18	SH 200 (01610ASH200) / 0 - 2	3	1	2988.5
19	SH 53 (01650ASH053) / 13 - 15	5	1	2971.8
20	US 95 (01540AUS095) / 514 - 516	2	1	2968.8
21	23750AOH000 / 0 - 2	2	1	2968.8

Districts (Geo) x District 1 x Behavioral Countermeasures x High Visibility Speed Enforcement x Road Functional Class x Interstate x Add Filter



Rank	Route / MP	Crashes
1	00826ADH000 / 5 - 7	2
2	SH 200 (01610ASH200) / 8 - 10	8
3	06120ADH000 / 0 - 2	4
4	02536ADH000 / 4 - 6	6
5	Setlce, Spokane (01661AIN090) / 0 - 2	10
6	SH 5 (01820ASH005) / 11 - 13	6
7	06300ADH000 / 1 - 3	3
8	US 95 (01540AUS095) / 439 - 441	13
9	SH 41 (01630ASH041) / 12 - 14	10
10	01661ADH000 / 1 - 3	4
11	02013ADH000 / 0 - 2	4
12	US 95 (01540AUS095) / 517 - 519	3
13	SH 58 (01810ASH058) / 0 - 2	3
14	21948ADH000 / 1 - 3	2
15	05950ADH000 / 0 - 2	4
16	US 95 (01540AUS095) / 466 - 468	3
17	01540DUS095 / 423 - 425	3
18	SH 200 (01610ASH200) / 0 - 2	3
19	SH 53 (01650ASH053) / 13 - 15	5
20	US 95 (01540AUS095) / 514 - 516	2
21	23750ADH000 / 0 - 2	2

00826ADH000 / 5 - 7 x



Open in Safety Analysis

Rank	State
Current	1

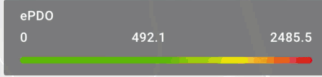
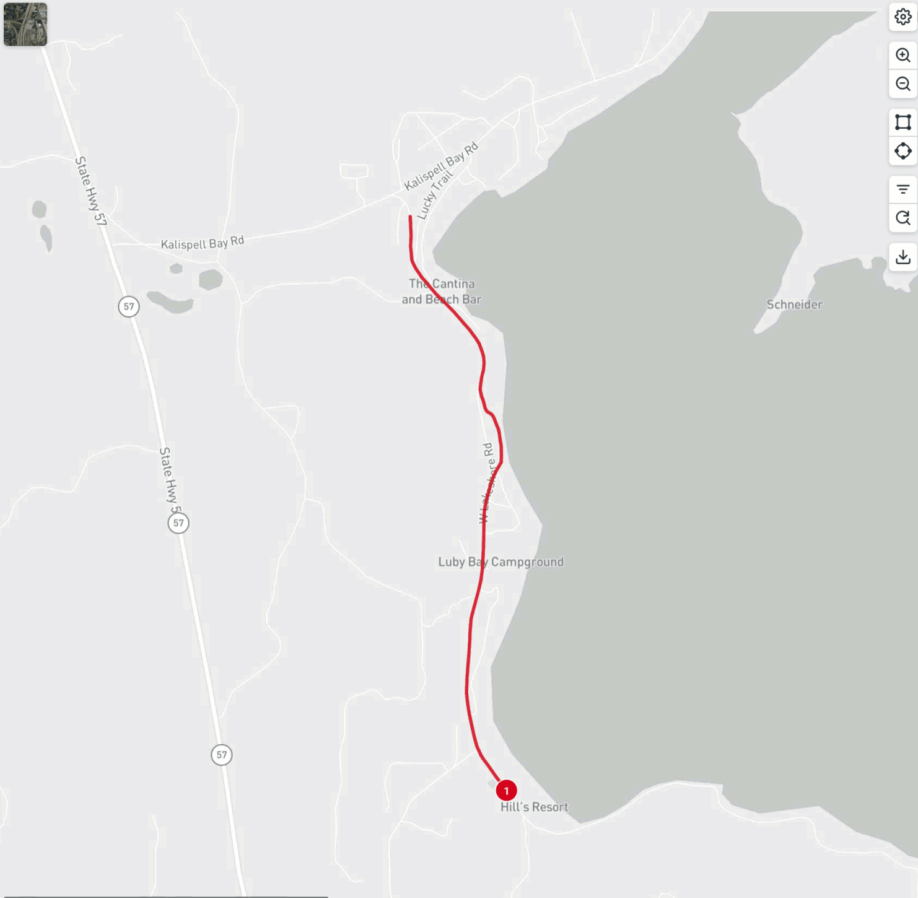
Crashes by Milepoint



Summary

Crashes	2
Fatal Crashes	2
ePDO	5,935.6
Crash Rate	0.0

Districts (Geo) = District 1 X Behavioral Countermeasures = High Visibility Speed Enforcement X Road Functional Class ≠ Interstate X Add Filter



Rank	Route / MP	Crashes	Fatal Crashes	ePDO
1	00826AOH000 / 5 - 7	2	2	5935.6
2	SH 200 (01610ASH200) / 8 - 10	8	1	3172.1
3	06120AOH000 / 0 - 2	4	1	3149.4
4	02536AOH000 / 4 - 6	6	1	3132.5
5	Seltice, Spokane (01661AIN090) / 0 - 2	10	1	3070.7
6	SH 5 (01820ASH005) / 11 - 13	6	1	3029.2
7	06300AOH000 / 1 - 3	3	1	3026.2
8	US 95 (01540AUS095) / 439 - 441	13	1	3017.5
9	SH 41 (01630ASH041) / 12 - 14	10	1	3014.5
10	01661AOH000 / 1 - 3	4	1	3008.5
11	02013AOH000 / 0 - 2	4	1	3008.5
12	US 95 (01540AUS095) / 517 - 519	3	1	3007.5
13	SH 58 (01810ASH058) / 0 - 2	3	1	3007.5
14	21948AOH000 / 1 - 3	2	1	3006.5
15	05950AOH000 / 0 - 2	4	1	2989.5
16	US 95 (01540AUS095) / 466 - 468	3	1	2988.5
17	01540DUS095 / 423 - 425	3	1	2988.5
18	SH 200 (01610ASH200) / 0 - 2	3	1	2988.5
19	SH 53 (01650ASH053) / 13 - 15	5	1	2971.8
20	US 95 (01540AUS095) / 514 - 516	2	1	2968.8
21	23750AOH000 / 0 - 2	2	1	2968.8

Edit Name & Category

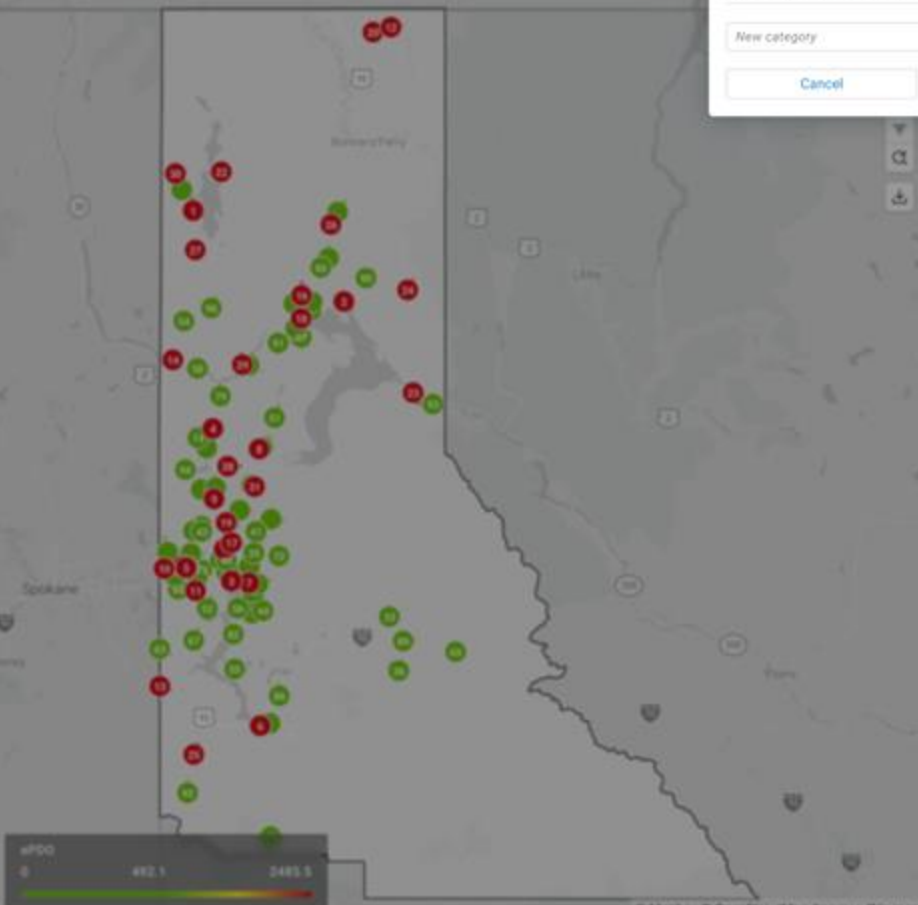
NAME

District 1 - High Visibility Speed Enforcement - ePDO (2 Miles)

New category

Cancel

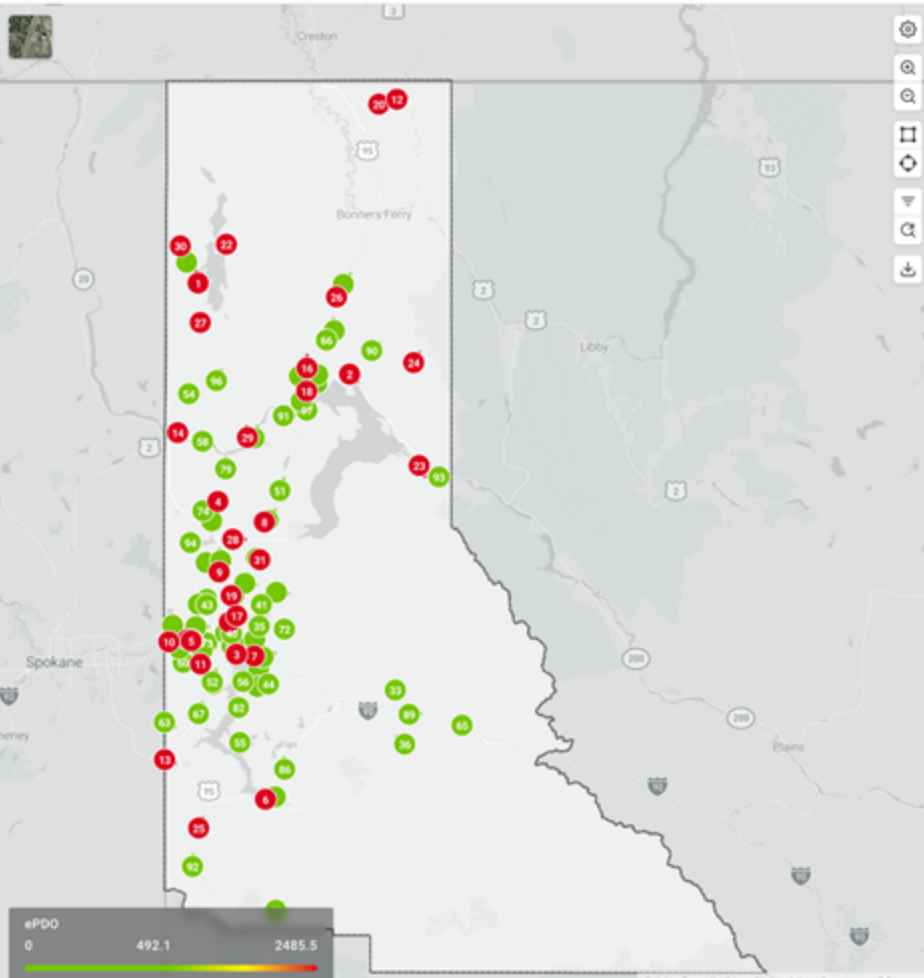
Apply



		Crashes	Fatal Crashes	ePDO
1	00 / 5 - 7	2	2	5035.6
2	1043H200 / 8 - 10	8	1	3172.1
3	00 / 0 - 2	4	1	3149.4
4	0233ADH00 / 4 - 6	6	1	3132.5
5	Selkirk, Spokane (01661AIND90) / 0 - 2	10	1	3070.7
6	SH 5 (01820ASHD00) / 11 - 13	6	1	3029.2
7	06306ADH00 / 1 - 3	3	1	3026.2
8	US 95 (01540AUS095) / 439 - 441	12	1	3017.5
9	SH 41 (01630ASH041) / 12 - 14	10	1	3014.5
10	01661ADH00 / 1 - 3	4	1	3008.5
11	0201SADH00 / 0 - 2	4	1	3008.5
12	US 95 (01540AUS095) / 517 - 519	3	1	3007.5
13	SH 58 (01810ASH058) / 0 - 2	3	1	3007.5
14	21948ADH00 / 1 - 3	2	1	3006.5
15	00950ADH00 / 0 - 2	4	1	2989.5
16	US 95 (01540AUS095) / 466 - 468	3	1	2968.5
17	01540DUS095 / 423 - 425	3	1	2968.5
18	SH 200 (01610ASH200) / 0 - 2	2	1	2968.5
19	SH 53 (01650ASH053) / 13 - 15	5	1	2971.8
20	US 95 (01540AUS095) / 514 - 516	2	1	2968.5
21	23750ADH00 / 0 - 2	2	1	2968.2

Districts (Geo) District 1 Behavioral Countermeasures High Visibility Speed Enforcement Road Functional Class Interstate Add Filter

Report (.pdf)
Worksheet (.xlsx)
Geometry zip (.kmz)



Rank	Route / MP	Crashes		
1	00826ADH000 / 5 - 7	2	2	5935.6
2	SH 200 (01610ASH200) / 8 - 10	8	1	3172.1
3	06120ADH000 / 0 - 2	4	1	3149.4
4	02536ADH000 / 4 - 6	6	1	3132.5
5	Seltice, Spokane (01661AIN090) / 0 - 2	10	1	3070.7
6	SH 5 (01820ASH005) / 11 - 13	6	1	3029.2
7	06300ADH000 / 1 - 3	3	1	3026.2
8	US 95 (01540AUS095) / 439 - 441	13	1	3017.5
9	SH 41 (01630ASH041) / 12 - 14	10	1	3014.5
10	01661ADH000 / 1 - 3	4	1	3008.5
11	02013ADH000 / 0 - 2	4	1	3008.5
12	US 95 (01540AUS095) / 517 - 519	3	1	3007.5
13	SH 58 (01810ASH058) / 0 - 2	3	1	3007.5
14	21948ADH000 / 1 - 3	2	1	3006.5
15	05950ADH000 / 0 - 2	4	1	2989.5
16	US 95 (01540AUS095) / 466 - 468	3	1	2988.5
17	01540AUS095 / 423 - 425	3	1	2988.5
18	SH 200 (01610ASH200) / 0 - 2	3	1	2988.5
19	SH 53 (01650ASH053) / 13 - 15	5	1	2971.8
20	US 95 (01540AUS095) / 514 - 516	2	1	2968.8
21	23750ADH000 / 0 - 2	2	1	2968.8

AutoSave | District 1, High Visibility Speed

Home | Insert | Draw | Page Layout | Formulas | Data | Review | View | Tell me

Paste | Cut | Copy | Format | Arial | 20 | Wrap Text | Merge & Center | General

A2 | Sliding Windows

Sliding Windows		Crash Counts by Severity							
Rank	Route / MP	Crashes	ePDO	K	A	B	C	D	U
1	00826A0H000 / 5 - 7	2	5,935.6	2	0	0	0	0	0
2	SH 200 (01610ASH200) / 8 - 10	8	3,172.1	1	1	1	1	4	0
3	06120A0H000 / 0 - 2	4	3,149.4	1	1	1	0	1	0
4	02536A0H000 / 4 - 6	6	3,132.5	1	1	0	1	3	0
5	Seltice, Spokane (01661AIN090) / 0 - 2	10	3,070.7	1	0	1	3	6	0
6	SH 5 (01820ASH005) / 11 - 13	6	3,029.2	1	0	1	1	3	0
7	06300A0H000 / 1 - 3	3	3,026.2	1	0	1	1	0	0
8	US 95 (01540AUS095) / 439 - 441	13	3,017.5	1	0	1	0	11	0
9	SH 41 (01630ASH041) / 12 - 14	10	3,014.5	1	0	1	0	8	0
10	01661A0H000 / 1 - 3	4	3,008.5	1	0	1	0	2	0
11	02013A0H000 / 0 - 2	4	3,008.5	1	0	1	0	2	0
12	US 95 (01540AUS095) / 517 - 519	3	3,007.5	1	0	1	0	1	0
13	SH 58 (01810ASH058) / 0 - 2	3	3,007.5	1	0	1	0	1	0
14	21948A0H000 / 1 - 3	2	3,006.5	1	0	1	0	0	0
15	02052A0H000 / 0 - 2	0	2,988.5	1	0	0	1	2	0
16	US 95 (01540AUS095) / 466 - 468	3	2,988.5	1	0	0	1	1	0
17	01540AUS095 / 423 - 425	3	2,988.5	1	0	0	1	1	0
18	SH 200 (01610ASH200) / 0 - 2	3	2,988.5	1	0	0	1	1	0
19	SH 53 (01650ASH053) / 13 - 15	5	2,971.8	1	0	0	0	4	0
20	US 95 (01540AUS095) / 514 - 516	2	2,968.8	1	0	0	0	1	0
21	23750A0H000 / 0 - 2	2	2,968.8	1	0	0	0	1	0
22	00798A0H000 / 12 - 14	1	2,967.8	1	0	0	0	0	0
23	00807A0H000 / 2 - 4	1	2,967.8	1	0	0	0	0	0
24	00840A0H000 / 2 - 4	1	2,967.8	1	0	0	0	0	0
25	01540AUS095 / 380 - 382	1	2,967.8	1	0	0	0	0	0
26	01540AUS095 / 479 - 481	1	2,967.8	1	0	0	0	0	0
27	SH 57 (01620ASH057) / 22 - 24	1	2,967.8	1	0	0	0	0	0
28	01540AUS095 / 13 - 5	1	2,967.8	1	0	0	0	0	0
29	21980A0H000 / 2 - 4	1	2,967.8	1	0	0	0	0	0
30	22003A0H000 / 0 - 2	1	2,967.8	1	0	0	0	0	0
31	26831AUS095 / 0 - 2	1	2,967.8	1	0	0	0	0	0
32	44965A0H000 / 0 - 2	1	2,967.8	1	0	0	0	0	0
33	02417A0H000 / 3 - 5	4	323.5	0	2	1	0	0	0
34	22101A0H000 / 1 - 3	4	304.6	0	2	0	1	1	0
35	02021A0H000 / 4 - 6	5	286.9	0	2	0	0	3	0
36	01460A0H000 / 2 - 4	4	285.9	0	2	0	0	2	0
37	01540AUS095 / 480 - 442	3	284.9	0	2	0	0	1	0
38	06340A0H000 / 2 - 4	3	284.9	0	2	0	0	1	0
39	21570A0H000 / 2 - 4	2	283.9	0	2	0	0	0	0
40	06103A0H000 / 2 - 4	15	250.0	1	2	1	11	0	0
41	01987A0H000 / 11 - 13	10	245.0	1	2	1	6	0	0
42	SH 41 (01630ASH041) / 14 - 16	10	244.8	0	1	1	3	5	0
43	SH 41 (01630ASH041) / 6 - 8	10	244.8	0	1	1	3	5	0
44	SH 97 (01790ASH097) / 33 - 35	8	224.1	0	1	1	2	4	0
45	06150A0H000 / 2 - 4	9	206.3	0	1	1	1	6	0
46	22813A0H000 / 0 - 2	5	202.3	0	1	1	1	2	0
47	SH 53 (01650ASH053) / 7 - 9	4	201.3	0	1	1	1	1	0
48	SH 3 (01800ASH003) / 90 - 92	4	201.3	0	1	1	1	1	0
49	23040A0H000 / 0 - 2	4	201.3	0	1	1	1	1	0
50	06110A0H000 / 0 - 2	12	190.4	0	1	0	2	9	0

SLIDING WINDOWS REPORT

District 1: High Visibility Speed Enforcement -ePDO (2 miles)



Created on April 5, 2023

Created by Audra Engle

Data extents: April 2, 2018 to April 2, 2023

Ranking Metric: ePDO

Applied Filters

Districts (Geo) * District 1 Behavioral Countermeasures (Crashes) * High Visibility Speed Enforcement

Road Functional Class (Sliding Windows) * Interstate

Rank	Route / State	Crashes	Fatal Crashes	ePDO
1 /	00826A0H000 / 5 - 7	2	2	5,935.6
2 /	SH 200 (01610ASH200) / 8 - 10	8	1	3,172.1
3 /	06120A0H000 / 0 - 2	4	1	3,149.4
4 /	02536A0H000 / 4 - 6	6	1	3,132.5
5 /	Seltice, Spokane (01661AIN090) / 0 - 2	10	1	3,070.7
6 /	SH 5 (01820ASH005) / 11 - 13	6	1	3,029.2
7 /	06300A0H000 / 1 - 3	3	1	3,026.2
8 /	US 95 (01540AUS095) / 439 - 441	13	1	3,017.5
9 /	SH 41 (01630ASH041) / 12 - 14	10	1	3,014.5
10 /	01661A0H000 / 1 - 3	4	1	3,008.5
11 /	02013A0H000 / 0 - 2	4	1	3,008.5
12 /	US 95 (01540AUS095) / 517 - 519	3	1	3,007.5
13 /	SH 58 (01810ASH058) / 0 - 2	3	1	3,007.5
14 /	21948A0H000 / 1 - 3	2	1	3,006.5

Safe System Approach

Principles of a Safe System Approach

- Humans Make Mistakes
- Humans are Vulnerable
- Responsibility is Shared
- Safety is Proactive
- Redundancy is Crucial



AASHTO Ware™



SAFETY

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