

ACIS – Arizona Crash Information System

ADOT

Training Video 1

ACIS Features and Reports



ADOT Traffic Safety Group

Created on April 2023

ARIZONA DEPARTMENT OF TRANSPORTATION



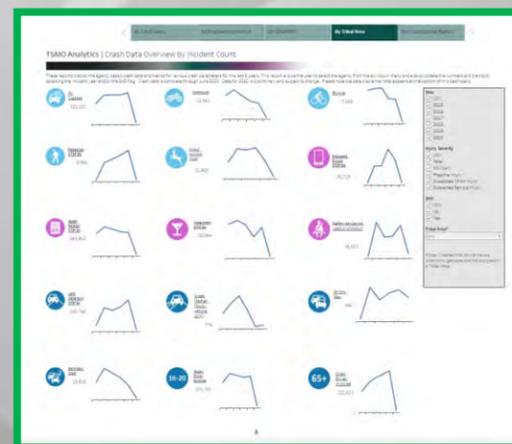
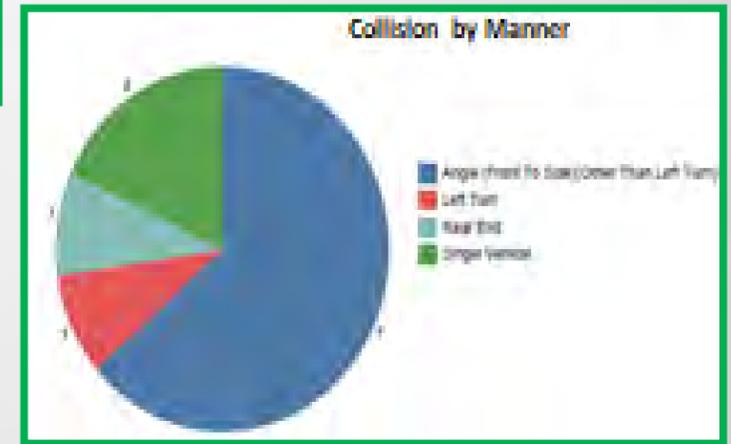
Existing Features of ACIS

- Crashes are geo-coded to ATIS Routes
- Advanced map search
- Built in Flags to customize your queries
- Search by Tribal Agency / MPO/ COG/ City / County/ ADOT District
- Site Summary Charts and Graphs
- Aerial Map / Map Report
- Collision Diagram
- Network Screening Report
- Dashboards - Agency Summary Charts and Graphs
- Crash Map

Crash Data for Crash Analysis/ Warrant Study/ Agency Summaries

- ✓ Query Crash Data
 - Open Map
 - Statewide
 - **By Agency**
 - By Project Site
 - By Route / Intersection
- ✓ Statistical Charts / Tables
 - **By Agency (Dashboards)**
 - By Route / Intersection
- ✓ Collision Diagram
 - By Route / Intersection
- ✓ Crash Location Maps/Aerial Maps
 - Open Map
 - **By Agency**
 - By Project Site
 - By Route / Intersection

Incident County Name	Incident Year	Incident Collision Manner Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Persons
1	La Paz	2013	Angle Front To Side(Other Than Left Turn)	2	0	0	8
2	La Paz	2014	Head On	1	1	1	3
3	La Paz	2014	Other	9	4	0	29
4	La Paz	2014	Rear End	24	19	2	88
5	La Paz	2014	Submerge Same Direction	22	0	0	84
6	La Paz	2014	Single Vehicle	128	78	2	240
7	La Paz	2015	Head On	1	0	1	3
8	La Paz	2015	Other	5	0	1	26
9	La Paz	2015	Rear End	42	27	2	125
10	La Paz	2015	Submerge Same Direction	29	14	0	98
11	La Paz	2015	Single Vehicle	136	86	7	249
12	La Paz	2016	Angle Front To Side(Other Than Left Turn)	1	0	0	2
13	La Paz	2016	Head On	1	1	0	3
14	La Paz	2016	Other	15	0	0	50
15	La Paz	2016	Rear End	202	119	1	270
16	La Paz	2016	Submerge Same Direction	49	10	0	170
17	La Paz	2016	Single Vehicle	111	72	4	227
18	La Paz	2017	Angle Front To Side(Other Than Left Turn)	2	0	0	9
19	La Paz	2017	Other	10	4	1	36
20	La Paz	2017	Rear End	42	27	1	113
21	La Paz	2017	Rear To Side	1	0	0	3
22	La Paz	2017	Submerge Opposite Direction	1	0	0	3
23	La Paz	2017	Submerge Same Direction	27	7	0	88
24	La Paz	2017	Single Vehicle	100	68	4	194
25	La Paz	2018	Head On	2	2	0	6
26	La Paz	2018	Other	13	0	2	42
27	La Paz	2018	Rear End	62	44	1	127
28	La Paz	2018	Submerge Opposite Direction	1	0	0	6
29	La Paz	2018	Submerge Same Direction	29	11	0	89



Outline

- ACIS functions
- What reports ACIS provides
- How to produce a ACIS report
- How to produce collision diagram
- How to produce network screening report



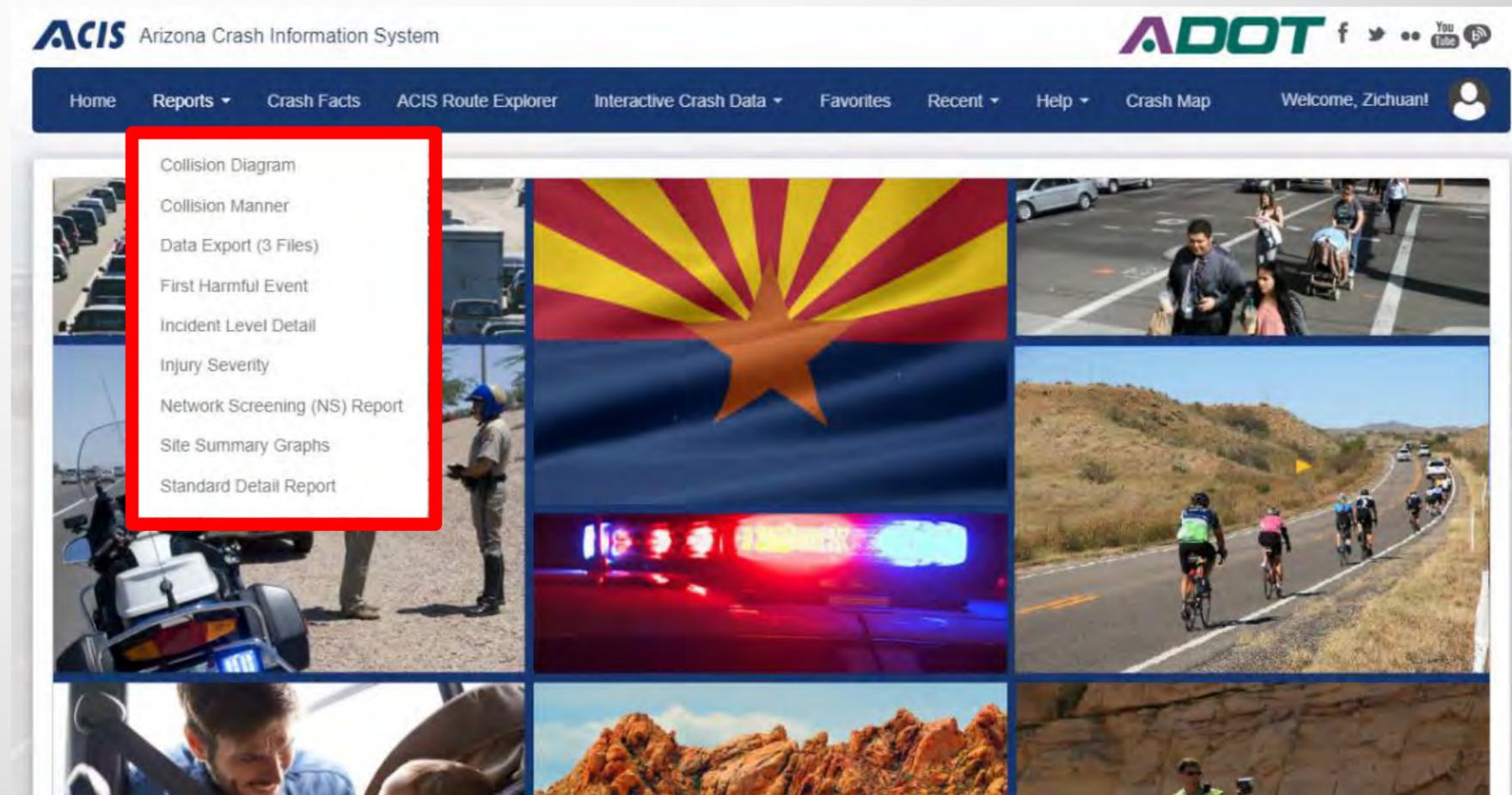
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- ACIS functions
- **What reports ACIS provides**
- How to produce a ACIS report
- How to produce collision diagram
- How to produce network screening report

Reports

✓ Reports

- **Summary reports**
 - **Collision Manner**
 - **First Harmful Event**
 - **Injury Severity**
- **Other reports**
 - **Collision Diagram**
 - **Data Export**
 - **Incident Level Detail**
 - **Network Screening**
 - **Site Summary Graphs**
 - **Standard Detail Report**



This report provides crash diagram for collisions, visualizing collision type, direction, severity, etc. and uses an aerial map or other basemaps which the user can select.



This report only provides crash summary for the collision manner grouped by the year.

	A	B	C	D	E	F	G	H
1	Incident County Name	Incident Year	Incident Collision Manner Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Persons
2	La Paz	2014	Angle (Front To Side)(Other Than Left Turn)	2	0	0	4	4
3	La Paz	2014	Head On	1	1	1	2	2
4	La Paz	2014	Other	9	4	0	19	29
5	La Paz	2014	Rear End	24	19	2	50	68
6	La Paz	2014	Sideswipe Same Direction	22	0	0	44	64
7	La Paz	2014	Single Vehicle	129	78	2	129	240
8	La Paz	2015	Head On	1	8	1	4	10
9	La Paz	2015	Other	5	0	1	13	26
10	La Paz	2015	Rear End	42	27	2	87	115
11	La Paz	2015	Sideswipe Same Direction	29	14	0	38	83
12	La Paz	2015	Single Vehicle	136	66	7	136	249
13	La Paz	2016	Angle (Front To Side)(Other Than Left Turn)	1	2	0	2	2
14	La Paz	2016	Head On	1	1	0	2	3
15	La Paz	2016	Other	13	2	0	27	50
16	La Paz	2016	Rear End	62	49	3	143	276
17	La Paz	2016	Sideswipe Same Direction	49	10	0	101	170
18	La Paz	2016	Single Vehicle	131	72	4	131	227
19	La Paz	2017	Angle (Front To Side)(Other Than Left Turn)	2	3	0	4	9
20	La Paz	2017	Other	10	4	1	24	36
21	La Paz	2017	Rear End	42	37	1	87	131
22	La Paz	2017	Rear To Side	1	0	0	2	3
23	La Paz	2017	Sideswipe Opposite Direction	1	3	0	2	9
24	La Paz	2017	Sideswipe Same Direction	27	7	0	54	85
25	La Paz	2017	Single Vehicle	100	68	4	100	194
26	La Paz	2018	Head On	2	2	4	4	6
27	La Paz	2018	Other	13	5	2	28	42
28	La Paz	2018	Rear End	52	44	1	107	151
29	La Paz	2018	Sideswipe Opposite Direction	1	2	0	2	6
30	La Paz	2018	Sideswipe Same Direction	29	11	0	58	80

This report provides crash data tables (INCIDENT, UNIT and PERSON) with all the crash fields that are entered from the crash report. These files are in CSV (comma separated values) or XML format.

The screenshot displays a web interface for data export. At the top, there are two input fields: "To Crossing Feature (optional)" with a placeholder "Leave this empty to search on an intersection" and "Offset for To Crossing Feature (feet)" with a placeholder "Enter an offset in feet". Below these is a section titled "Output" which contains a dropdown menu labeled "Output Report As" with the text "Select a format for download". The dropdown menu is open, showing the following options: "Incident File (CSV)", "Person File (CSV)", "Unit File (CSV)", "Incident File (XML)", "Person File (XML)", and "Unit File (XML)". At the bottom of the interface, there are two buttons: "View Report" and "Add Favorite".

This report only provides the crash summary for the first harmful event grouped by the year.

Incident County Name	Incident Year	Incident First Harmful Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Persons
Maricopa	2016	Circle	1	0	0	1	1
Maricopa	2017	Concrete Traffic Barrier	1	0	0	1	1
Maricopa	2017	Motor Vehicle In Transport	1	0	0	2	2
Maricopa	2017	Other Traffic Barrier	1	0	0	1	2
Maricopa	2017	Overturn/Rollover	1	1	0	1	1
			5	1	0	6	7

This report provides crash details at an incident level including the incident id, date, on road, crossing features, offset, severity, first harmful event, weather, collision manner, junction relation and traffic incident management (TIM) fields.

Incident ID	Incident Mile/Dir	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity Description	Incident First Harmful Description	Incident Collision Manner Description	Incident Weather Description	Incident Junction Relation Description
1046021		1/25/2016 9:05:00 PM	S 051	N000	0.87	SUSPECTED MINOR INJURY?	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1046030		1/25/2016 9:10:00 PM	S 051	N001	0	NO INJURY	MOTOR VEHICLE IN TRANSPORT	SIDESWIP-SAME DIRECTION	CLEAR	NOT JUNCTION RELATED
1046185		2/23/2016 4:44:00 PM	S 051	N000.00 (N2 IN PROGRESS)	-1.5	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1046932		2/23/2016 4:03:00 PM	S 051	N000	0.05	POSSIBLE INJURY	MOTOR VEHICLE IN TRANSPORT	SIDESWIP-SAME DIRECTION	CLEAR	NOT JUNCTION RELATED
1074650		4/12/2016 3:25:00 PM	S 051	N001	9	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1078020		4/25/2016 2:53:00 PM	S 051	N000.00 (N2 IN PROGRESS)	-0.1	POSSIBLE INJURY	MOTOR VEHICLE IN TRANSPORT	OTHER	CLEAR	NOT JUNCTION RELATED
1078710		4/25/2016 3:22:00 PM	S 051	N000	0.54	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	ENTRANCE/EXIT RAMP INTERCHANGE
1083314		4/27/2016 3:52:00 PM	S 051	N001	0	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1083325		5/11/2016 4:39:00 AM	S 051	N000.00 (N2 IN PROGRESS)	0.3	POSSIBLE INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1088201		3/23/2016 10:31:00 AM	S 051	N001	0	NO INJURY	FENCE	SINGLE VEHICLE	CLEAR	NOT JUNCTION RELATED
1088210		3/23/2016 7:41:00 AM	S 051	N001	0	SUSPECTED MINOR INJURY?	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1088234		3/23/2016 7:51:00 AM	S 051	N001	0	POSSIBLE INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1088237		3/23/2016 8:22:00 AM	S 051	N000.00 (N2 IN PROGRESS)	-0.5	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1094500		1/30/2016 2:43:00 PM	S 051	N001	0	POSSIBLE INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1101600		5/20/2016 6:43:00 AM	S 051	N001	0	NO INJURY	OTHER NON FIXED OBJECT	OTHER	CLEAR	NOT JUNCTION RELATED
1104807		6/14/2016 7:25:00 AM	S 051	N001	0.81	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED
1104935		7/21/2016 4:29:00 PM	S 051	N000	0.20	NO INJURY	MOTOR VEHICLE IN TRANSPORT	REAR END	CLEAR	NOT JUNCTION RELATED

This report provides the crash summary for the injury severity grouped by the year.

Incident County Name	Incident Year	Incident Injury Severity Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Persons
Cochise	2001	No Injury	4	0	0	5	6
Cochise	2001	Suspected Minor Injury	2	6	0	3	6
Cochise	2001	Suspected Serious Injury	2	3	0	3	9
Cochise	2002	No Injury	8	0	0	11	29
Cochise	2002	Possible Injury	2	2	0	3	5
Cochise	2002	Suspected Minor Injury	1	1	0	1	1
Cochise	2003	No Injury	3	0	0	3	3
Cochise	2003	Possible Injury	1	2	0	1	2
Cochise	2003	Suspected Minor Injury	1	1	0	2	6
Cochise	2004	No Injury	3	0	0	3	3
Cochise	2004	Possible Injury	2	2	0	2	2
Cochise	2004	Suspected Minor Injury	1	2	0	2	4
Cochise	2004	Suspected Serious Injury	1	1	0	1	1
Cochise	2005	Fatal	1	4	3	2	7
Cochise	2005	No Injury	4	0	0	7	9
Cochise	2005	Possible Injury	3	4	0	3	5
Cochise	2005	Suspected Minor Injury	3	6	0	6	21
Cochise	2005	Suspected Serious Injury	1	5	0	1	7
Cochise	2006	Fatal	1	0	1	1	1
Cochise	2006	No Injury	2	0	0	3	6
Cochise	2006	Suspected Minor Injury	1	1	0	1	1
Cochise	2007	No Injury	4	0	0	5	15
Cochise	2007	Possible Injury	1	4	0	1	4

This report provides high crash locations for segments, intersections, or ramps based on fatal and serious injury crash count or total crash counts for locations with at least 10 crashes. These reports can be generated by COG/MPO, City, County, District, or tribal area. Flags such as lane departure or pedestrian can be added as well. Also, crash and violation type reports for segments, intersections, or ramps can be generated.

Network Screening Report: Crash Type - State Highway

Rank	Crash Type	Severity					Total
		K+A Total	Fatal (K)	Serious (A)	Minor/Poss (B+C)	PDO (O)	
1	Single Vehicle	1419	391	1028	6760	####	27508
2	Rear End	579	124	455	15245	####	45186
3	Head On	246	148	98	138	84	468
4	Sideswipe Same Direction	238	31	207	3198	####	20526
5	Pedestrian	219	137	82	105	0	324
6	Angle (Front To Side)(Other	82	12	70	421	723	1226
7	Left Turn	60	5	55	372	546	978
8	Sideswipe Opposite	57	37	20	121	245	423
9	Pedalcyclist	29	10	19	50	0	79
10	U Turn	13	4	9	30	52	95

Report Parameters

Request ID : b32f01fe-445f-4d25-8d1b-1fd4c5ae6570
 Incident Date Range : 1/1/2020-12/31/2022

This report is subject to the provisions of 23 USC § 407. Any intentional or inadvertent release of this material, or any data derived from its use does not constitute a waiver of privilege pursuant to 23 USC §407. 23 USC § 407 - Discovery and admission as evidence of certain reports and surveys. Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules,

Site Summary Graph & Charts

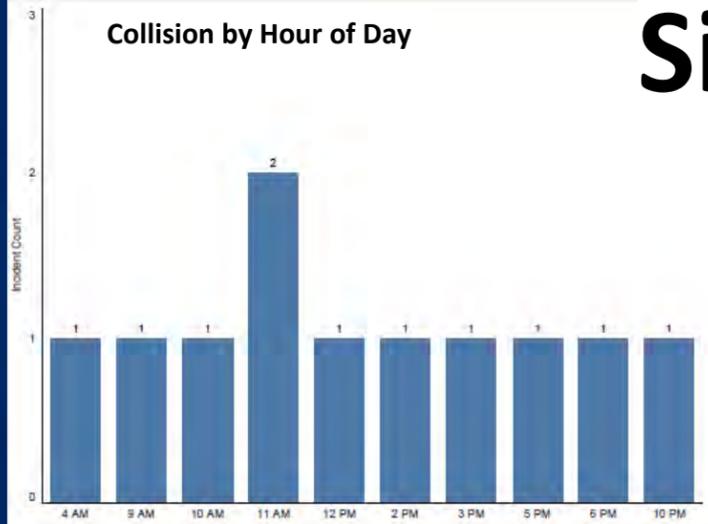
ADOT

- Collision by **Severity**
- Collision by **Severity** and by Incident Year
- Collision by **Severity** and by Mile Post/Crossing feature
- Collision by Manner by Incident Year,
- Collision by Manner and by Mile Post/Crossing feature
- Secondary Collision by Severity and by Incident Year
- Collision by Hour of Day
- Collision by Day of Week
- Collision by Month
- Collision by Manner
- Collision by Light Condition, Collision by Weather
- Single Vehicle Collision by First Harmful Event and by Incident Year
- Single Vehicle Collision by First Harmful Event and By Mile Post/Crossing feature
- Collision by Road Condition (Unit)
- Collision by Surface Condition (Unit)
- Collision by Violation, Collision by Physical (Person)

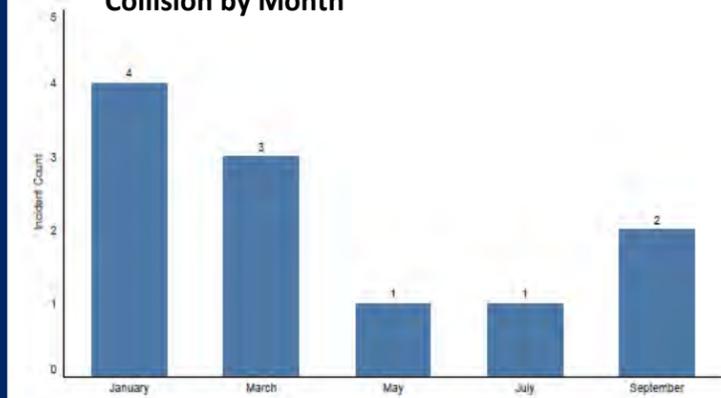
Site Summary Charts

SR-88 and Lost Dutchman Blvd (2014-2018)

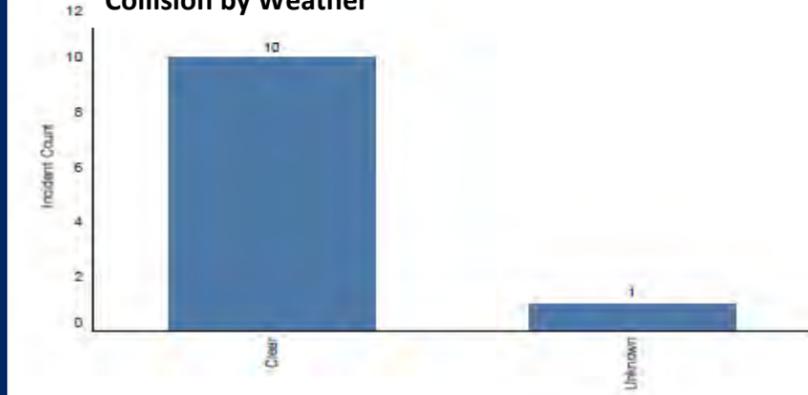
Collision by Hour of Day



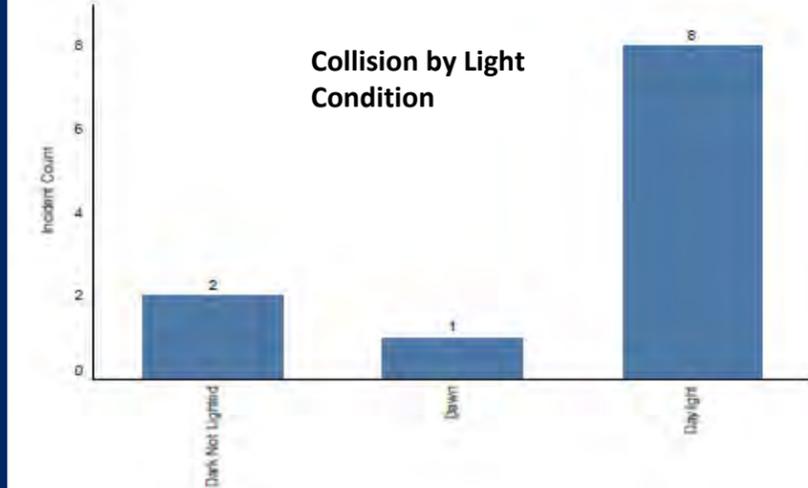
Collision by Month



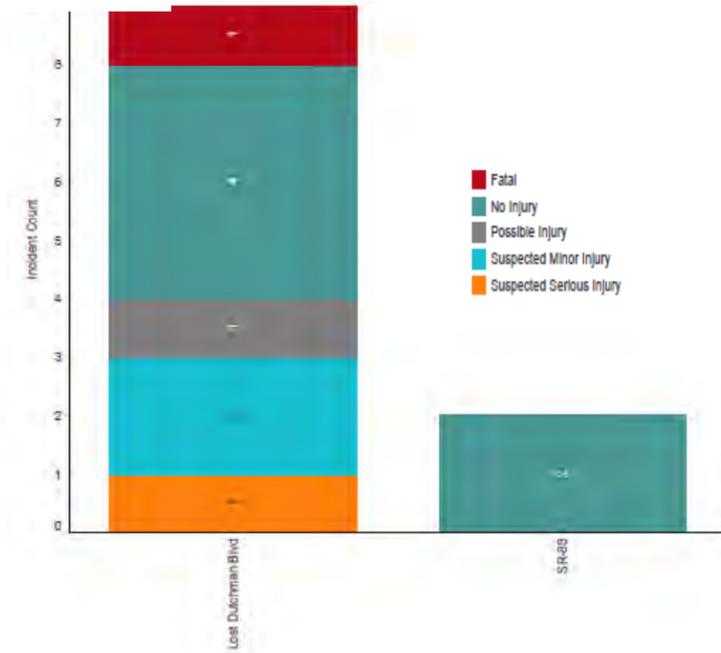
Collision by Weather



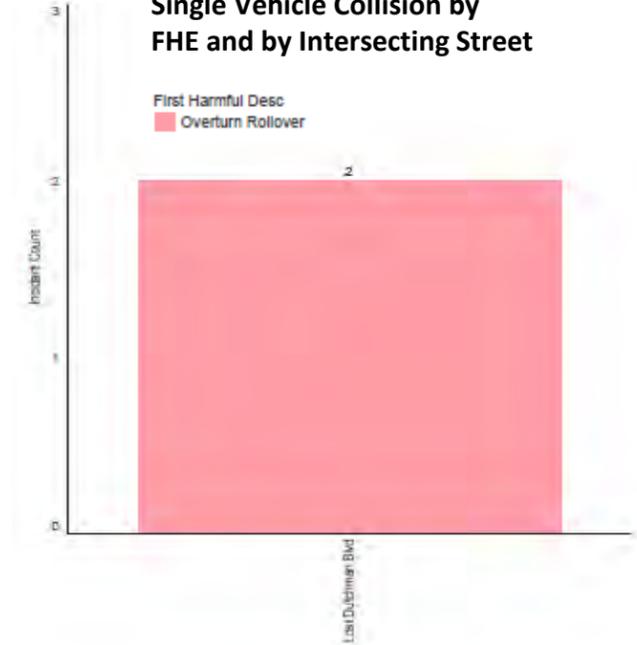
Collision by Light Condition



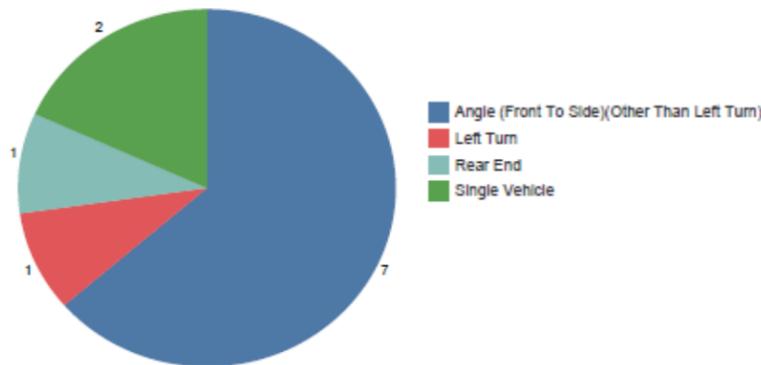
Collision by Severity and by Intersecting Street



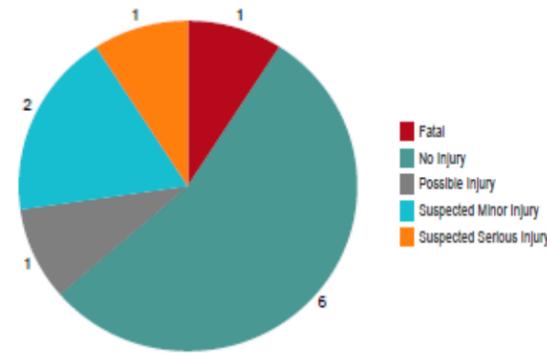
Single Vehicle Collision by FHE and by Intersecting Street



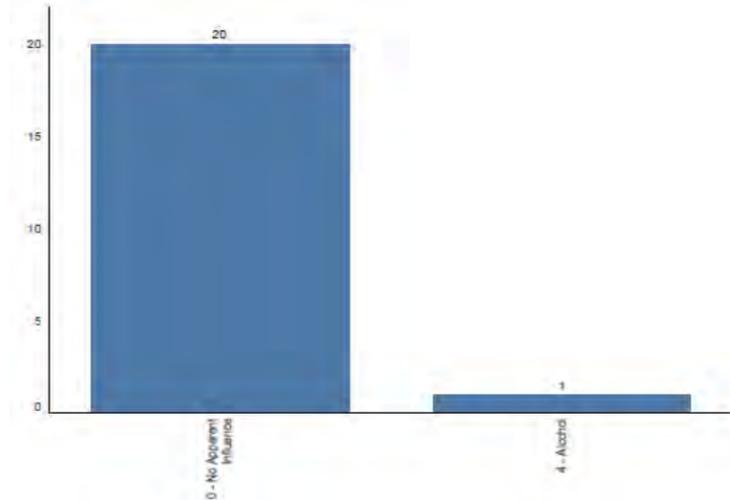
Collision by Manner



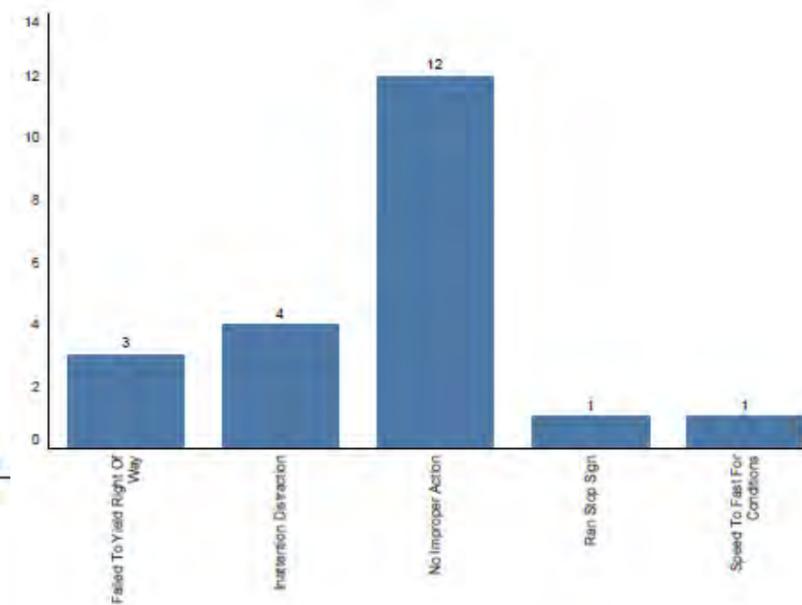
Collision by Severity



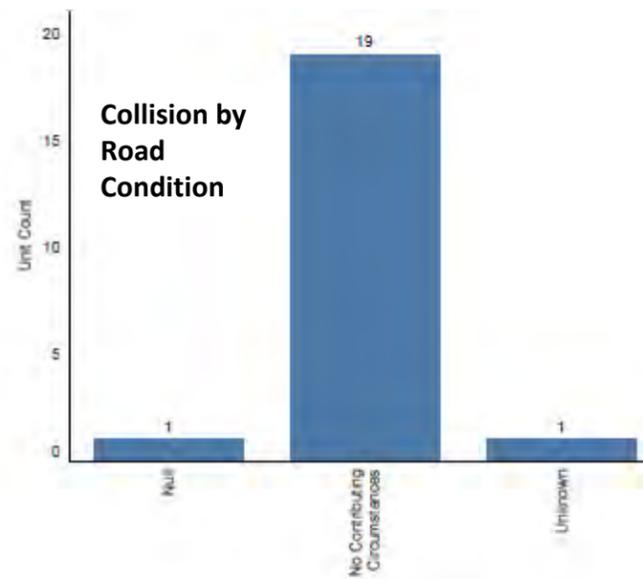
Collision by Physical Condition



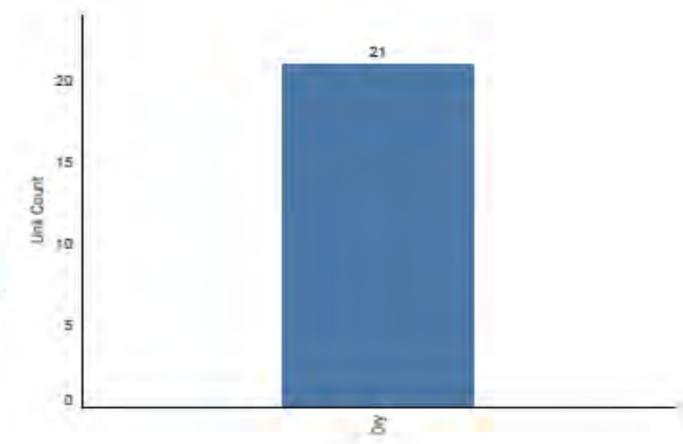
Collision by Violation



Collision by Road Condition

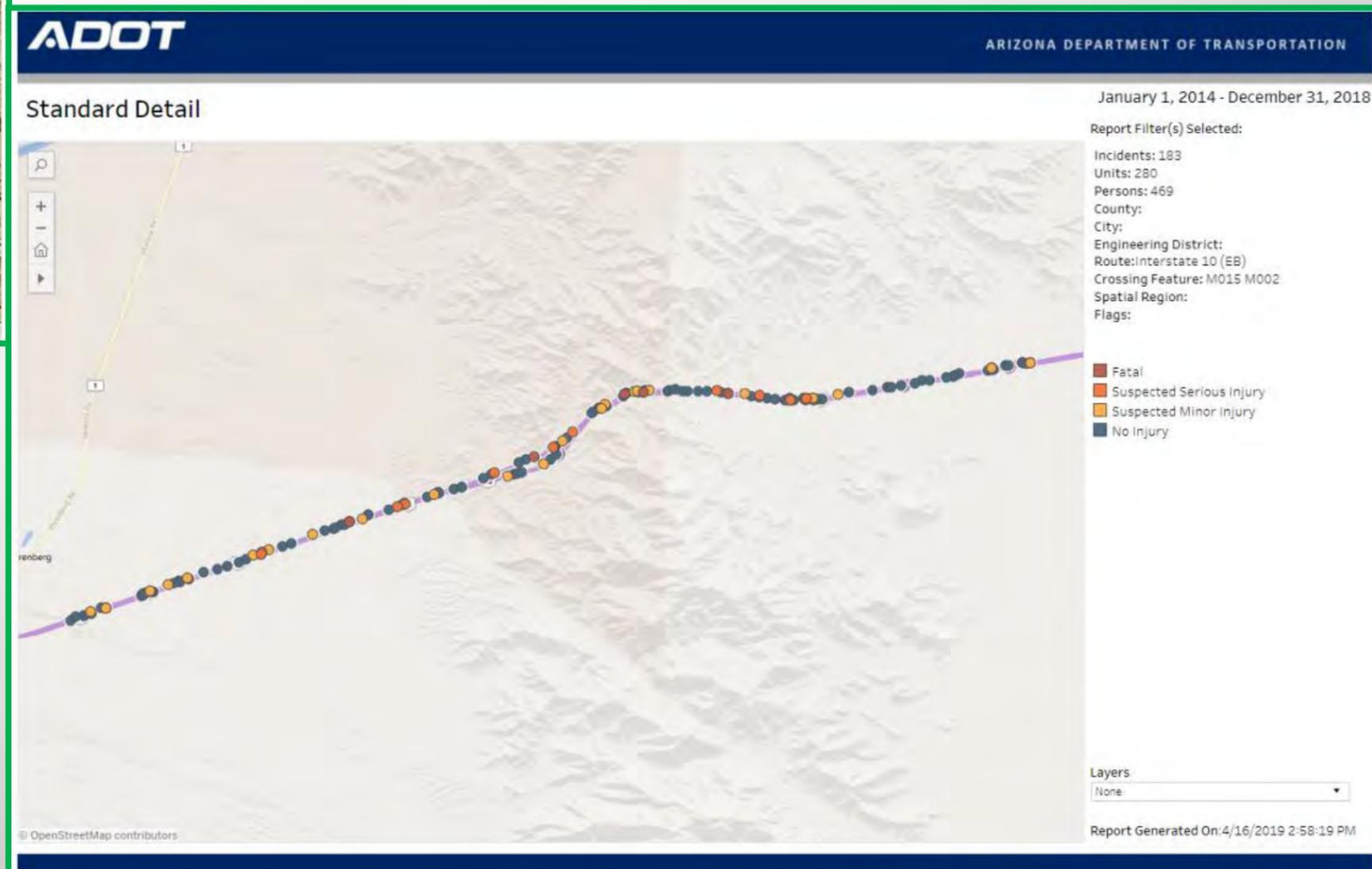
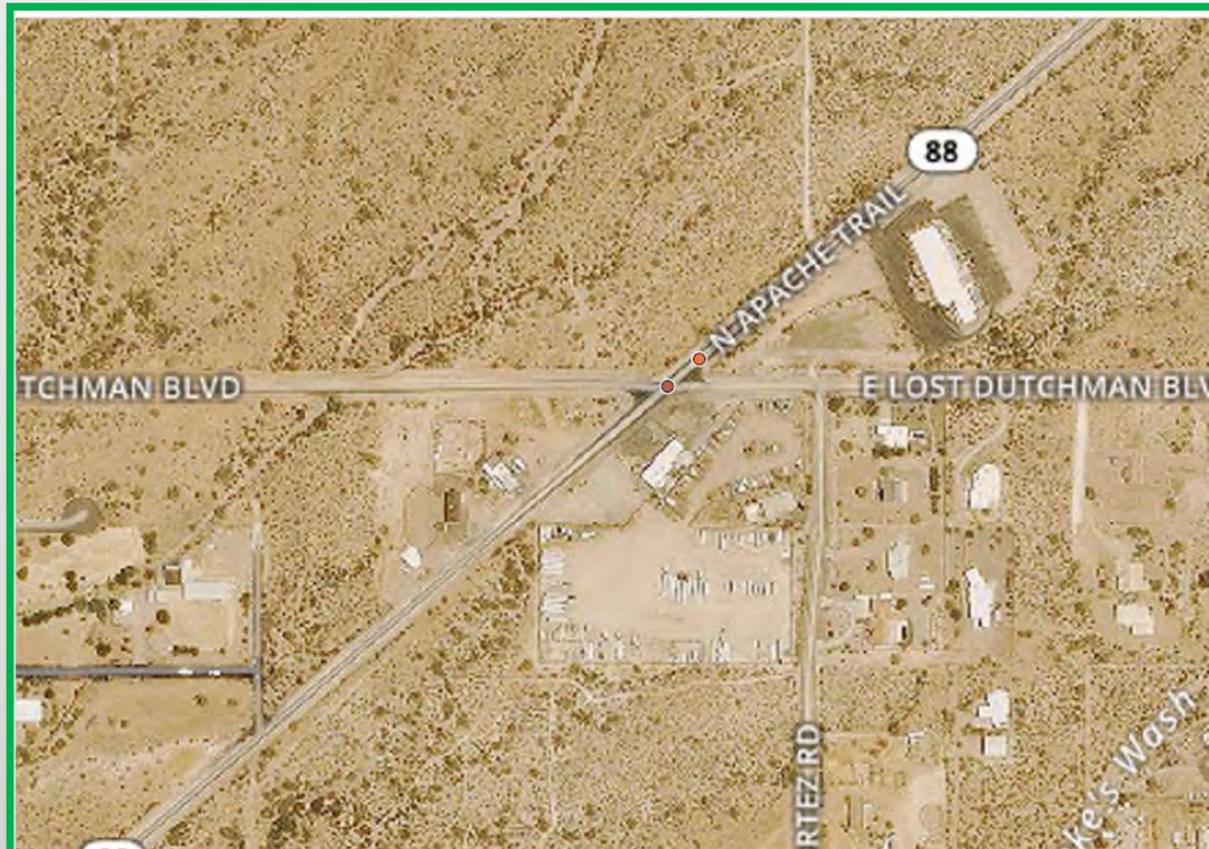


Collision by Surface Condition



This report option allows users to download the crash data for further analysis. This report includes all the crash-related variables based on the incident id such as location, light and weather condition, direction of travel for each unit involved, violations, physical condition, safety device usage, body style, lane, investigating agency, city/county location, report type (paper/electronic)

1	Incident ID	27	Unit Event Sequence Desc2
2	Incident Microfilm	28	Unit Event Sequence Desc3
3	Incident Date & Time	29	Unit Event Sequence Desc4
4	Incident On Road	30	Lane
5	Incident Crossing Feature	31	Person Type Desc
6	Incident Offset	32	Person Safety Device Desc
7	Incident Injury Severity Description	33	Person Violation Desc1
8	Incident First Harmful Description	34	Person Physical Desc0
9	Incident Collision Manner Desc	35	Person Physical Desc1
10	Incident Light Condition Desc	36	Person Physical Desc2
11	Incident Weather Desc	37	Person Physical Desc3
12	Incident Intersection Type Desc	38	Person Physical Desc4
13	Incident Junction Relation Desc	39	Person Physical Desc5
14	Incident Traffic Way Type Desc	40	Person Physical Desc6
15	Incident File Number	41	Person Physical Desc7
16	Investigating Agency	42	Person Physical Desc97
17	City/County Location	43	Person Physical Desc99
18	Unit Body Style Desc	44	Latitude
19	Unit Travel Direction Desc	45	Longitude
20	Unit Action Desc	46	X
21	Unit Road Condition Desc1	47	Y
22	Unit Surface Condition Desc1	48	Geocode On Road
23	Unit Env Condition Desc1	49	Geocode Crossing Feature
24	Unit Defect Desc1	50	Geocode Offset (miles)
25	Unit Number	51	Geocode Owner
26	Unit Event Sequence Desc1	52	Report Type



Outline

- ACIS functions
- What reports ACIS provides
- **How to produce a ACIS report**
- How to produce collision diagram
- How to produce network screening report

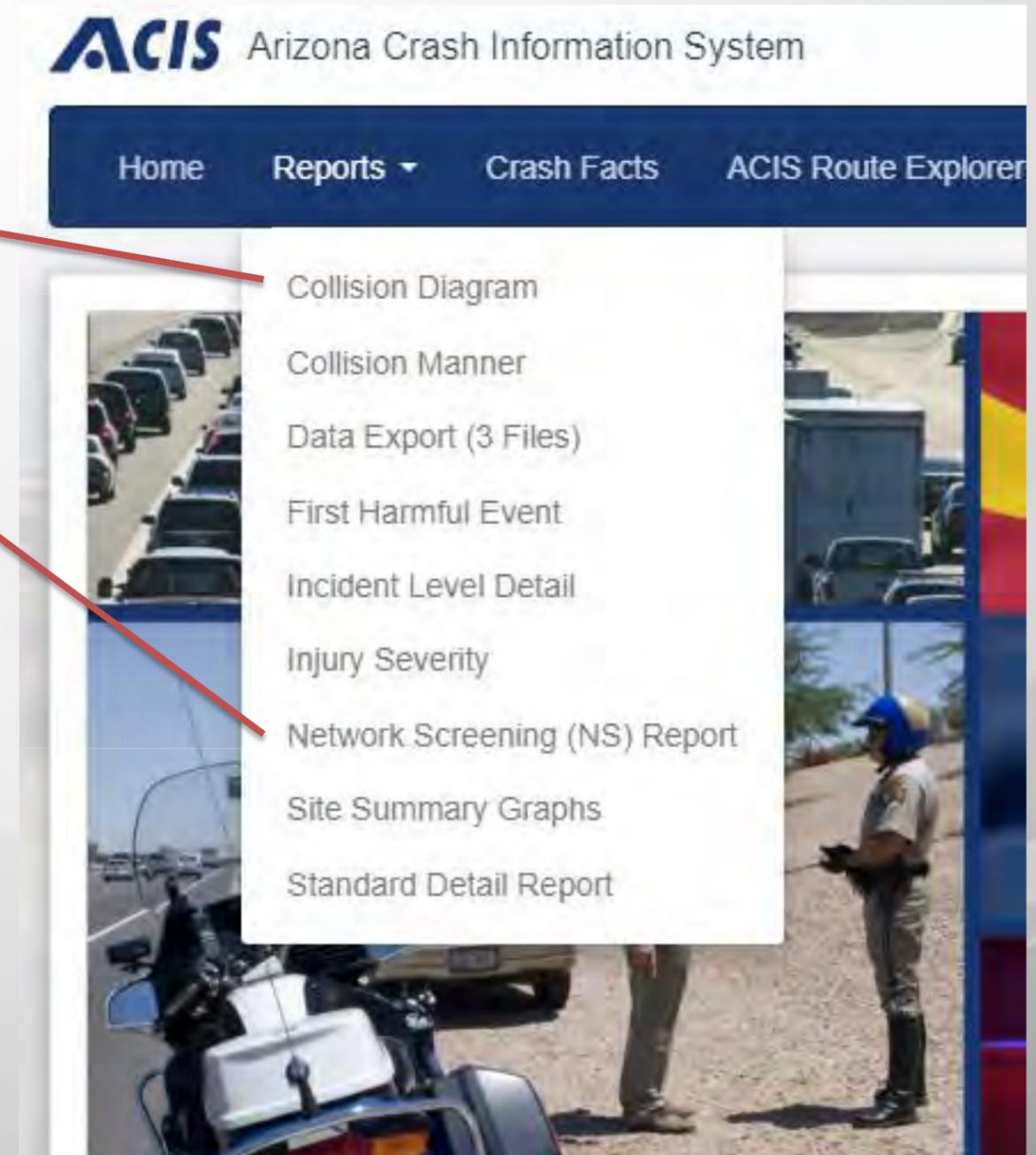
Reports Query Form

✓ Crash Query

- *Collision Diagram Query (NEW)*
- *Network Screening Query (NEW)*

Existing reports

- *Collision Manner*
- *Data Export*
- *First Harmful Event*
- *Incident Level Detail*
- *Injury Severity*
- *Site Summary Graphs*
- *Standard Detailed Report*



Standard Detail Report

General

Incident Date
mm/dd/yyyy - mm/dd/yyyy

Incident Flags
Select one or more Incident Flags...

Location

Location Criteria
Route

Route Type (add ramp to this box to search for ramps)
Highway Local

Route
Enter a route...

Include Both Directions? (Use when a route is physically divided)
Yes

From Crossing Feature
Select a Route before selecting a Crossing Feature...

Offset for 'From' Crossing Feature (in feet)
Enter an offset in feet...

To Crossing Feature (optional)
Leave this empty to search on an intersection

Offset for 'To' Crossing Feature (feet)
Enter an offset in feet...

Output

Output Report As*
Excel

✓ **General**

- **Crash Period**
- **Crash Flags**

✓ **Location**

- **Open Map**
- **County/City/ADOT District/COG/MPO/Tribal Area**
- **Route/Intersection/Segment**

✓ **Output**

- **Data – Excel/PDF/CSV/XML/HTML**
- **Visualization (Graphs/Charts)**
- **Map/Aerial Map**

Enter the date range in the boxes below or use the calendar to select by month and year

Incident Date

01/01/2018 - 12/31/2022

< Jan 2018 >

Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

< Dec 2022 >

Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Current Year

Prior Year

Prior 3 Years

Prior 5 Years

Current Month

Prior Month

Apply

Clear

Alcohol Use
Animal Involved Crash
Bus
Concrete or Cable Barrier Hit
Controlled Access Roads Excluded
Crossed Centerline
Crossed Median
Curve Related
Dark Light Condition
Disregarded Traffic Signal Violation Involved
Distracted Driving
Drug Use
Electronic Report
Fatal Crash
Fatal Or Serious Injury Crash
Fixed Object Involved
Guardrail Face or End Hit
Gross Vehicle Wight Rating (GVWR) 10,000 lbs or more
Hazardous Material Flag
Heavy Vehicle Involved
Hit And Run
Impairment
Intersection

Intersection Turning
Lane Departure
Local Road
Location Fixed by the Auto Correct Routine
Marijuana Use
Medical Transport
Medication Use
Motor Cycle
Multiple Vehicles Involved
Occurred on a Ramp
Occurred on Controlled Access Roads
Older Driver Involved
Over Turning
Paper Report
Pedalcyclist
Pedestrian
Pedestrian Or Pedalcyclist Involved
Ran Stop Sign Violation Involved
Road Rage
Run Off Road
Rural
Safety Device not Used
Safety Device not Used - Child Restraint Only

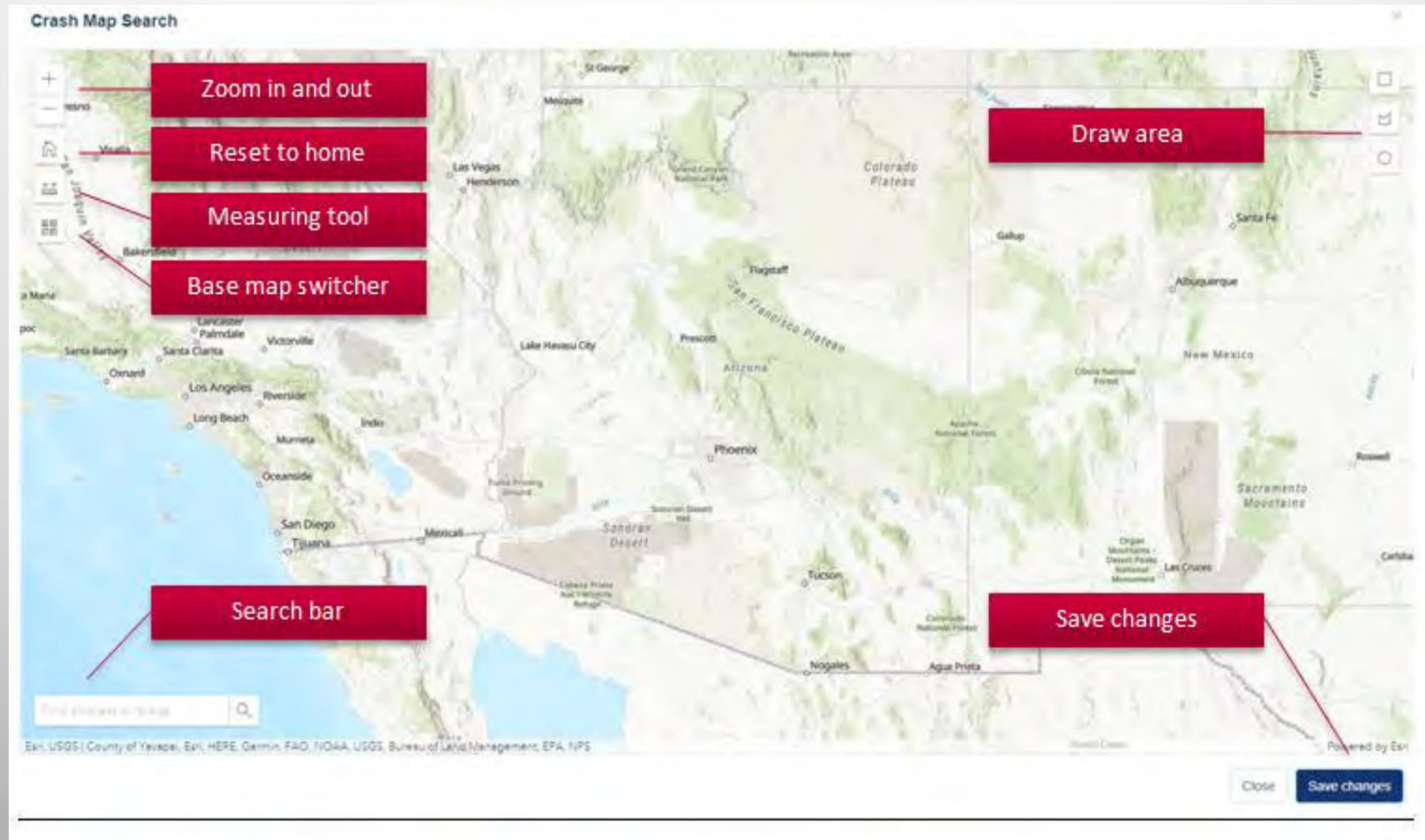
Safety Device not Used - Helmet Only
Safety Device not Used - Seatbelt Only
Safety Device Used
School Bus Related
Secondary Crash
Serious Injury Crash
State Highway System (SHS)
Signalized Intersection
Single Vehicle Involved
Speed Related
Speed Related without Impairment
Tow Away
Tree Related Crash
Truck Bus
Un-Signalized Intersection
Urban
Vehicle Train Crash
Weather Related Crash
Wet Surface Condition
Work Zone Related
Workers Present
Wrongway Crash
Younger Driver Involved

Advanced Map Search: Select map search in the location criteria drop down box and click on Open Map. A pop-up window with a geographic map will open. The user can zoom in and out by using the scroll on their mouse or the + and – icons within the map then left-click and span over the desired area. Alternatively, the user can type in the location name in the search bar, and the map extent will zoom into the specified location. To draw an area to be evaluated, the user can click on Draw Area icons located in the top right of the map. Once an area has been defined, the user can select Save Changes, and the application will apply the latitude and longitude of the area specified. A circle, polygon, or rectangle can be used for the draw area.



The screenshot displays a web interface for location search. It features a 'Location' header, a 'Location Criteria' dropdown menu with 'Map Search' selected, and an 'Advanced Map Search' section containing 'Open Map' and 'Clear Map' buttons. The 'Open Map' button is highlighted with a red circle.

Use the search bar or zoom in to the segment or intersection of interest. A circle, square, or polygon can be used. The screenshot below shows how to use the map search.



Select by County (more than 1 county can be chosen)

Location

Location Criteria

Agency/Area

County

- Apache
- Cochise
- Coconino
- Gila
- Graham
- Greenlee
- La Paz
- Maricopa

Select by City (more than 1 city can be chosen)

Location

Location Criteria

Agency/Area

County

Enter a county

City

- Aguila**
- Ajo
- Akchin
- Alpine
- Amado
- Apache Junction
- Arivaca
- Arizona City

Select by Tribal Area (more than 1 tribal area can be chosen)

Location

Location Criteria

Agency/Area x

County

Enter a county...

City

Enter a city...

Tribal Area Description

|

- Fort Yuma-Quechan Tribe
- Tohono O'odham Nation
- Gila River Indian Community
- Colorado River Indian Tribes
- Tohono O'odham Nation (San Xavier)
- Salt River Pima-Maricopa Indian Community
- Fort McDowell Yavapai Nation
- Hualapai Tribe

Select by ADOT Engineering District (more than 1 district can be chosen)

Location

Location Criteria

Agency/Area

County

Enter a county

City

Enter a city

Tribal Area Description

Select Some Options

Engineering District

- Central
- Northcentral
- Northeast
- Northwest
- Southcentral
- Southeast
- Southwest

Select by COG (Council of Governments) or MPO (Metropolitan Planning Organization) (more than 1 COG/MPO can be chosen)

Location

Location Criteria

Agency/Area

County

Enter a county...

City

Enter a city...

COG/MPO

- Maricopa Association of Governments
- Pima Association of Governments
- Northern Arizona Council of Governments
- Western Arizona Council of Governments
- Central Arizona Council of Governments
- South Eastern Arizona Governments Organization
- Yuma Metropolitan Planning Organization
- Central Yavapai Metropolitan Planning Organization

Location

Location Criteria

Route

Route Type (add ramp to this box to search for ramps)

Route

Enter a route...

Include Both Directions? (Use when a route is physically divided)

Yes

From Crossing Feature

Select a Route before selecting a Crossing Feature...

Offset for 'From' Crossing Feature (in feet)

Enter an offset in feet...

To Crossing Feature (optional)

Leave this empty to search on an intersection

Offset for 'To' Crossing Feature (feet)

Enter an offset in feet...

Select a route by typing in the route search box. Make sure to add ramp to the route type box to search for ramps.

Location

Location Criteria ?

Route ✕ ▾

COG/MPO ?

Select Some Options

Route Type (add ramp to this box to search for ramps) ?

Highway ✕ Local ✕

Route ?

i-10

- Interstate 10 (EB) ?
- Interstate 10 (WB) ?
- Interstate 10 Frontage (1) (EB) ✕ ▾
- Interstate 10 Frontage (EB) ?
- Interstate 10 Frontage (WB) ?

Select a Route before selecting a Crossing Feature... ▾

Offset for 'From' Crossing Feature (in feet) ?

Enter an offset in feet...

To Crossing Feature (optional) ?

Leave this empty to search on an intersection •

Offset for 'To' Crossing Feature (feet) ?

Enter an offset in feet...

Use the ACIS route explorer to search for route names.

Location

Location Criteria ?

Route x ▾

COG/MPO ?

Select Some Options

Route Type (add ramp to this box to search for ramps) ?

Highway x Local x

Route ?

Interstate 10 (EB)

Include Both Directions? (Use when a route is physically divided) ?

No x ▾

🔍

Yes

No

Offset for 'From' Crossing Feature (in feet) ?

Enter an offset in feet...

To Crossing Feature (optional) ?

Leave this empty to search on an intersection •

Offset for 'To' Crossing Feature (feet) ?

Enter an offset in feet...

Select Yes for include both directions if the route is physically divided.

Location

Location Criteria

Route x

COG/MPO

Select Some Options

Route Type (add ramp to this box to search for ramps)

Highway x Local x

Route

Interstate 10 (EB)

Include Both Directions? (Use when a route is physically divided)

Yes x

From Crossing Feature

Select a crossing feature...

M000

M001

M002

M003

M004

M005

Tom Wells Rd

M006

Select a milepost or road name in the from crossing feature. The mileposts or road names that intersect with the route chosen will be shown.

Location

Location Criteria ?

Route ✕ ▾

COG/MPO ?

Select Some Options

Route Type (add ramp to this box to search for ramps) ?

Highway ✕ Local ✕

Route ?

Interstate 10 (EB)

Include Both Directions? (Use when a route is physically divided) ?

Yes ✕ ▾

From Crossing Feature ?

M100 ✕ ▾

Offset for 'From' Crossing Feature (in feet) ?

2,640

To Crossing Feature (optional) ?

M110 ✕ ▾

Offset for 'To' Crossing Feature (feet) ?

1584

To search for a milepost segment or local road segment, enter the milepost or road name in the to crossing feature. Enter the offset (in feet) for the distance from the milepost or local road name.

Route Type ?

Highway x Local x

Route ?

Bell Rd - MARICOPA - PHOENIX

Include Both Directions? ?

Yes x ▾

From Crossing Feature ?

35th Ave x ▾

Offset for 'From' Crossing Feature (in feet) ?

Enter an offset in feet...

To Crossing Feature (optional) **To Crossing Feature not needed for intersections** ?

Leave this empty to search on an intersection ▾

Offset for 'To' Crossing Feature (feet) ?

Enter an offset in feet...

To search for an intersection, leave the to crossing feature blank. If no value is entered in the offset field, the default search is a 150 foot buffer around the intersection.

Offset can be entered based on different intersections. For example – Roundabouts would need bigger offset

	A	B	C	D	E	F	G	H
	Incident County Name	Incident Year	Incident Collision Manner Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Persons
1	Maricopa	2020	Angle (Front To Side)(Other Than Left Turn)	1	0	0	2	2
2	Maricopa	2021	Rear End	2	0	0	4	4
3	Maricopa	2021	Sideswipe Same Direction	1	0	0	2	2
4								
5								

Every Report generated includes Query Parameters

Report Parameters

Request ID : 85a35923-9dc7-4fea-a515-872631654641

Incident Date Range : 1/1/2016-12/31/2018

Route : State Route 24 (EB)

From Crossing Feature : M000

To Crossing Feature : Ellsworth Rd

Both Directions Selected? : No

Intersection Selected : M000

Report Generated On : 2/15/2019 11:58:31 AM

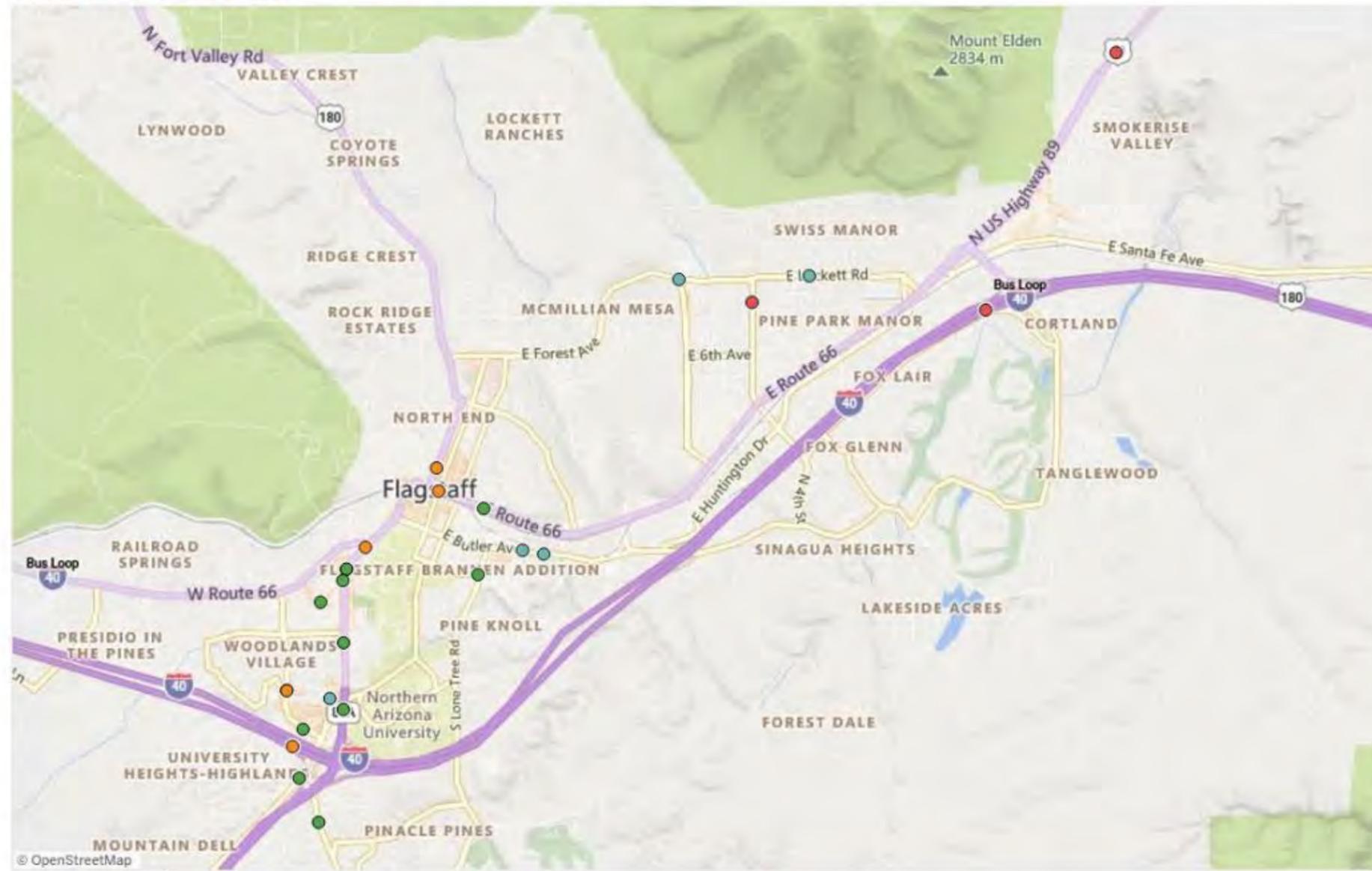
2/15/2019 11:58:31 AM

Two types of map output are available for the standard detailed report and incident level report – aerial map and Bing map.

The screenshot displays the ACIS Arizona Crash Information System interface. At the top, the ACIS logo and "Arizona Crash Information System" text are on the left, and the ADOT logo with social media icons and a user profile "Welcome, Zichuan!" are on the right. A dark blue navigation bar contains links for Home, Reports, Crash Facts, ACIS Route Explorer, Interactive Crash Data, Favorites, Recent, Help, and Crash Map. Below this, the "Injury Severity" section is visible, featuring a "General" tab and two input fields: "Incident Date" (with a date range placeholder "mm/dd/yyyy - mm/dd/yyyy") and "Incident Flags" (with a dropdown menu "Select one or more Incident Flags..."). The "Output" section below shows a dropdown menu for "Output Report As" with a search bar and a list of options: Report, PDF, Excel, CSV, Visualization, Map, XML, and Aerial Map.

Incident Level Detail

January 1, 2020 - December 31, 2020

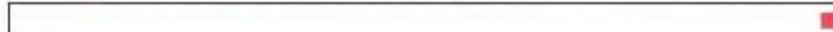


Incidents: 25
 Units: 50
 Persons: 59
 County:
 City: Flagstaff
 Engineering District:
 Route:
 Crossing Feature:
 Spatial Region:
 Flags: Pedestrian
 COG/MPO:
 Tribal Area:

IncidentInjurySeverityDesc

- Fatal
- Possible Injury
- Suspected Minor Injury
- Suspected Serious Injury

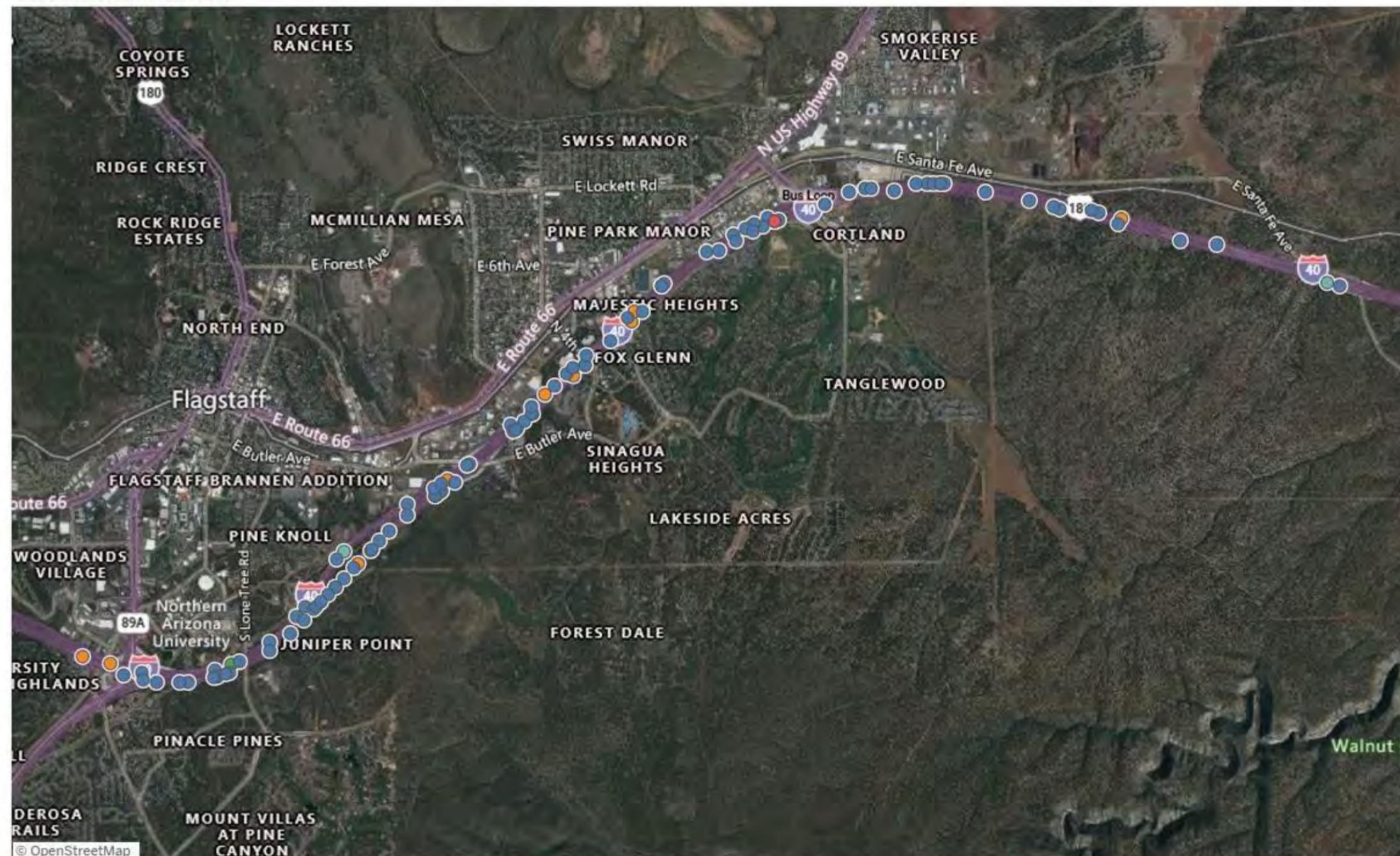
Injury Severity Count



3 Report Generated On: 3/21/2023 1:36:51 PM

Standard Detail

January 1, 2020 - December 31, 2020



Report Filter(s) Selected:

- Incidents: 113
- Units: 170
- Persons: 247
- County:
- City:
- Engineering District:
- Route: Interstate 40 (EB)
- Crossing Feature: M205 M195
- Spatial Region:
- Flags:
- COG/MPO:
- Tribal Area:

IncidentInjurySeverityDesc

- Fatal
- No Injury
- Possible Injury
- Suspected Minor Injury
- Suspected Serious Injury

Injury Severity Count	1	97	2	12	1
	■	■	■	■	■

Report Generated On: 3/31/2023 2:12:16 PM

ACIS Query did not **WORK**

- ✓ *Check your query parameters*
- ✓ *Check if you have access to the NCIC codes*
- ✓ *Check all programs are working*
- ✓ *Call ADOT Traffic Safety*



ACIS access will be disabled if you didn't login to ADOT network for 90 days

Crash Numbers Don't Match - ACIS

- ✓ *An agency may not have sent all their crash reports to ADOT or the reports have not been processed due to backlog*
- ✓ *Agencies may have different criteria for crashes, such as counting private property crashes or under minimum crashes, or including fatalities not matching NHTSA guidelines*
- ✓ *An agency may have different criteria for certain queries, example: counting all crashes within 250 feet of an intersection instead of 150 feet or using the intersection related box*
- ✓ *Any query run from 2 different databases may have different results*

Outline

- ACIS functions
- What reports ACIS provides
- How to produce a ACIS report
- **How to produce collision diagram**
- How to produce network screening report

ACIS Arizona Crash Information System

ADOT f t y

Welcome, Zichuan!

Collision Diagram

General

Incident Date*
mm/dd/yyyy - mm/dd/yyyy

Incident Flags
Select one or more Incident Flags...

Location

Route Type (add ramp to this box to search for ramps)*
Highway x Local x

Route*
Enter a route...

Include Both Directions? (Use when a route is physically divided)*
Yes x

From Crossing Feature*
Select a Route before selecting a Crossing Feature...

To Crossing Feature (optional)
Leave this empty to search on an intersection

View Diagram Add Favorite

- ✓ **General**
 - **Crash Period**
 - **Crash Flags**
- ✓ **Location**
 - **Route/Intersection/Segment**

General

*Incident Date** ?

Incident Flags ?

Location

*Route Type (add ramp to this box to search for ramps)** ?

*Route** ?

*Include Both Directions? (Use when a route is physically divided)** ?

x v

*From Crossing Feature** ?

v

To Crossing Feature (optional) ?

v

[View Diagram](#) [Add Favorite](#)

Collision Diagram

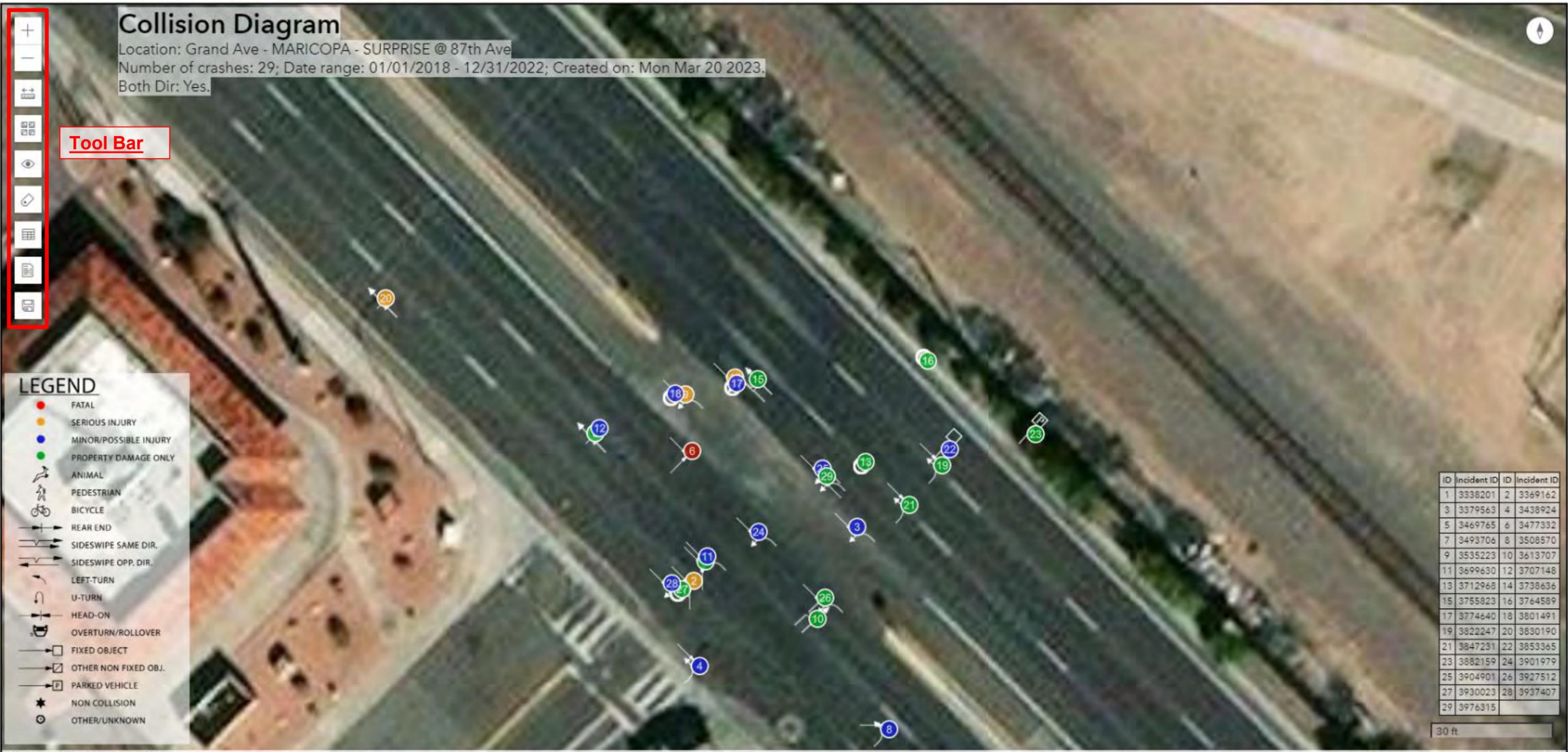
Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.



Tool Bar

LEGEND

- FATAL
- SERIOUS INJURY
- MINOR/POSSIBLE INJURY
- PROPERTY DAMAGE ONLY
- ANIMAL
- PEDESTRIAN
- BICYCLE
- REAR END
- SIDESWIPE SAME DIR.
- SIDESWIPE OPP. DIR.
- LEFT-TURN
- U-TURN
- HEAD-ON
- OVERTURN/ROLLOVER
- FIXED OBJECT
- OTHER NON FIXED OBJ.
- PARKED VEHICLE
- NON COLLISION
- OTHER/UNKNOWN



ID	Incident ID	ID	Incident ID
1	3338201	2	3369162
3	3379563	4	3438924
5	3469765	6	3477332
7	3493706	8	3508570
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11	3699630	12	3707148
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25	3904901	26	3927512
27	3930023	28	3937407
29	3976315		

30 ft

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
Both Dir: Yes.

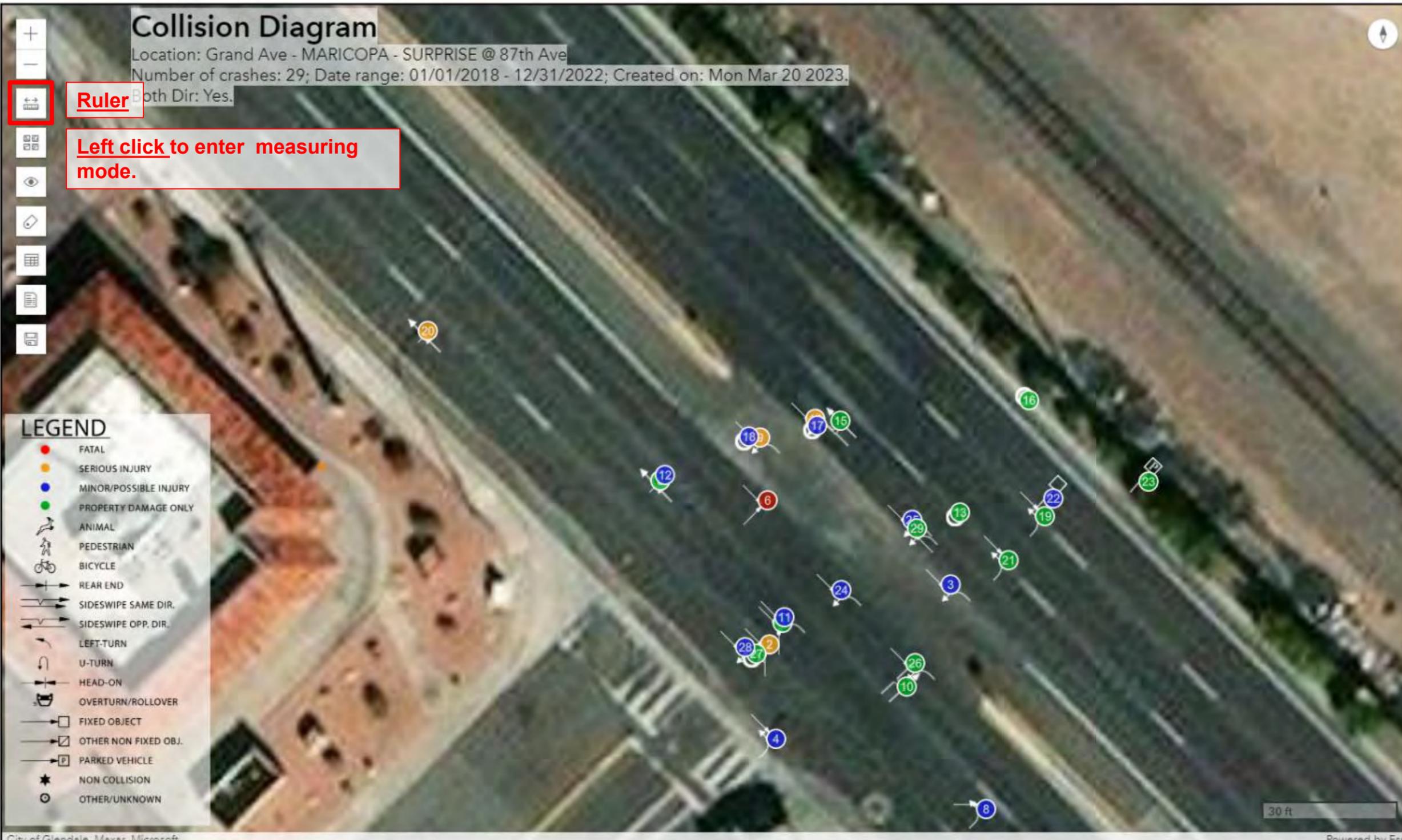


Ruler

Left click to enter measuring mode.

LEGEND

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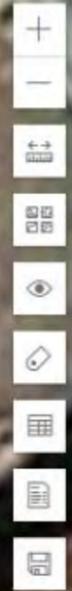


Start to measure by clicking in the map to place your first point

Diagram - Ruler

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
Both Dir: Yes.



Left click on the map to set the start point.
Left click again to set the next measure point.
Double click to end this measurement.

58.04 ft

Unit
Feet

Distance
58.04 ft

New measurement

LEGEND

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- SERIOUS INJURY
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Diagram - Ruler

Collision Diagram
Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
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Left click the second icon to measure an area.

Start to measure by clicking in the map to place your first point

30 ft

City of Glendale, Maxar, Microsoft

Powered by Esri

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

Unit
Square feet

Area
3,032.10 ft²

Perimeter
220.83 ft

[New measurement](#)

Left click on the map to set the polygon vertices.

Double click to end measuring

LEGEND

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- FIXED OBJECT
- OTHER NON FIXED OBJ.
- PARKED VEHICLE
- NON COLLISION
- OTHER/UNKNOWN

+

-

Ruler

[Map Icon]

[Layers Icon]

[Eye Icon]

[Home Icon]

[Table Icon]

[Print Icon]

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave

Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.

Both Dir: Yes.

Left click the icon again to exit measuring mode. Measuring line will be cleaned.

LEGEND

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30 ft

City of Glendale, Maxar, Microsoft

Powered by Esri

Collision Diagram
Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
Both Dir: Yes.

Base Map Switcher
Left click to view all base map options.

Default choice

LEGEND

- FATAL
- SERIOUS INJURY
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- NON COLLISION
- OTHER/UNKNOWN

City of Glendale, Maxar, Microsoft

Powered by Esri

Map styles list:
Topographic
Streets
World Street Map (with Relief)
Open Street Map
Imagery with Labels
Imagery (Default choice)
Imagery for Maricopa County only

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

Left click to change the base map.



LEGEND

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- OTHER/UNKNOWN

- Topographic
- Streets
- World Street Map (with Relief)
- Open Street Map
- Imagery with Labels
- Imagery
- Imagery for Maricopa County only



Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

☰ **Base Map Switcher**

☑ **Left click the icon again to close the base map panel.**

LEGEND

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- MINOR/POSSIBLE INJURY
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29	3976315		

30 ft

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Powered by Esri

Collision Diagram

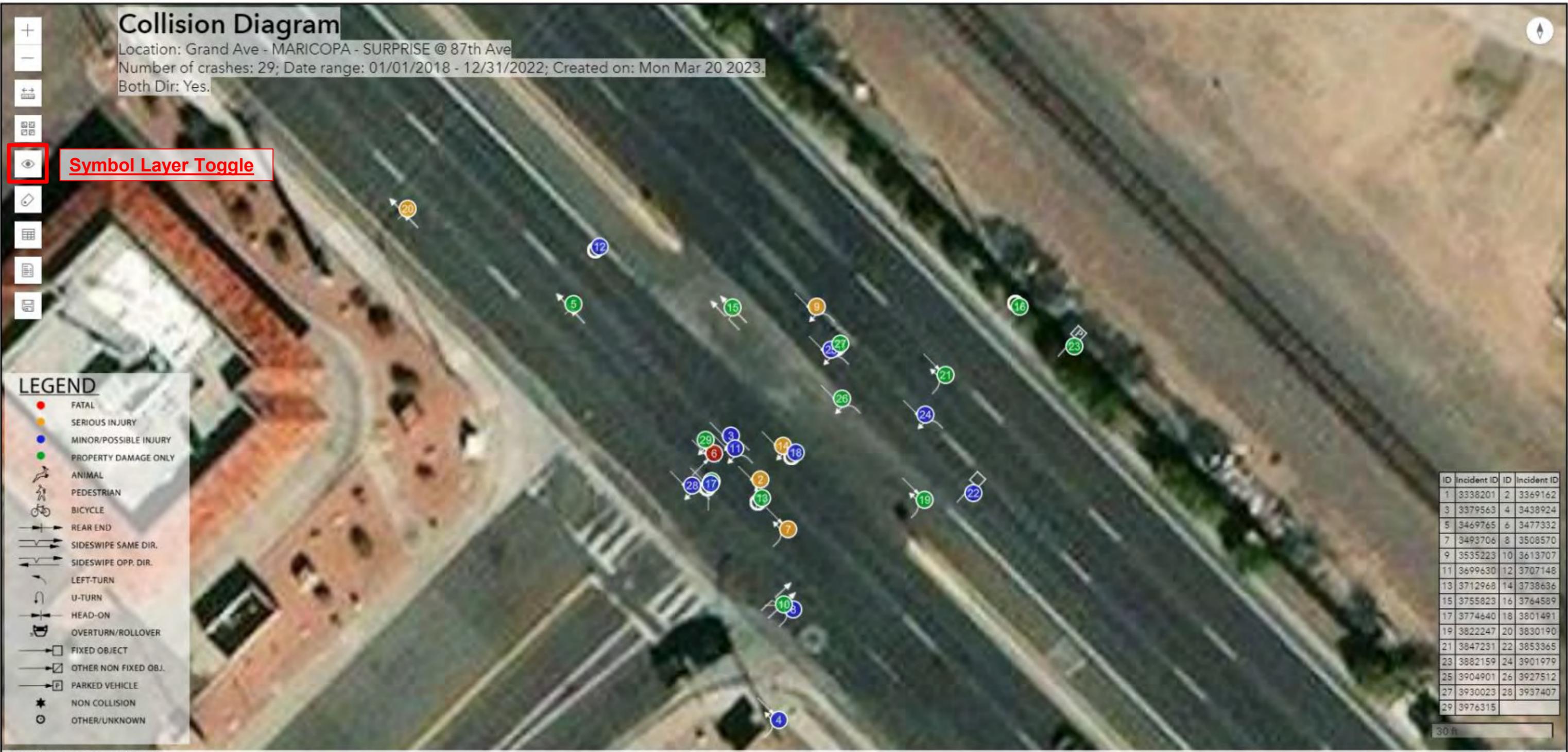
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Symbol Layer Toggle

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Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.



Symbol Layer Toggle

Left click to turn off the symbol layer.

LEGEND

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Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

👁️ **Symbol Layer Toggle**

Left click the icon again to turn on the symbol layer.

LEGEND

- FATAL
- SERIOUS INJURY
- MINOR/POSSIBLE INJURY
- PROPERTY DAMAGE ONLY
- ANIMAL
- PEDESTRIAN
- BICYCLE
- REAR END
- SIDESWIPE SAME DIR.
- SIDESWIPE OPP. DIR.
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City of Glendale, Maxar, Microsoft Powered by Esri

Collision Diagram

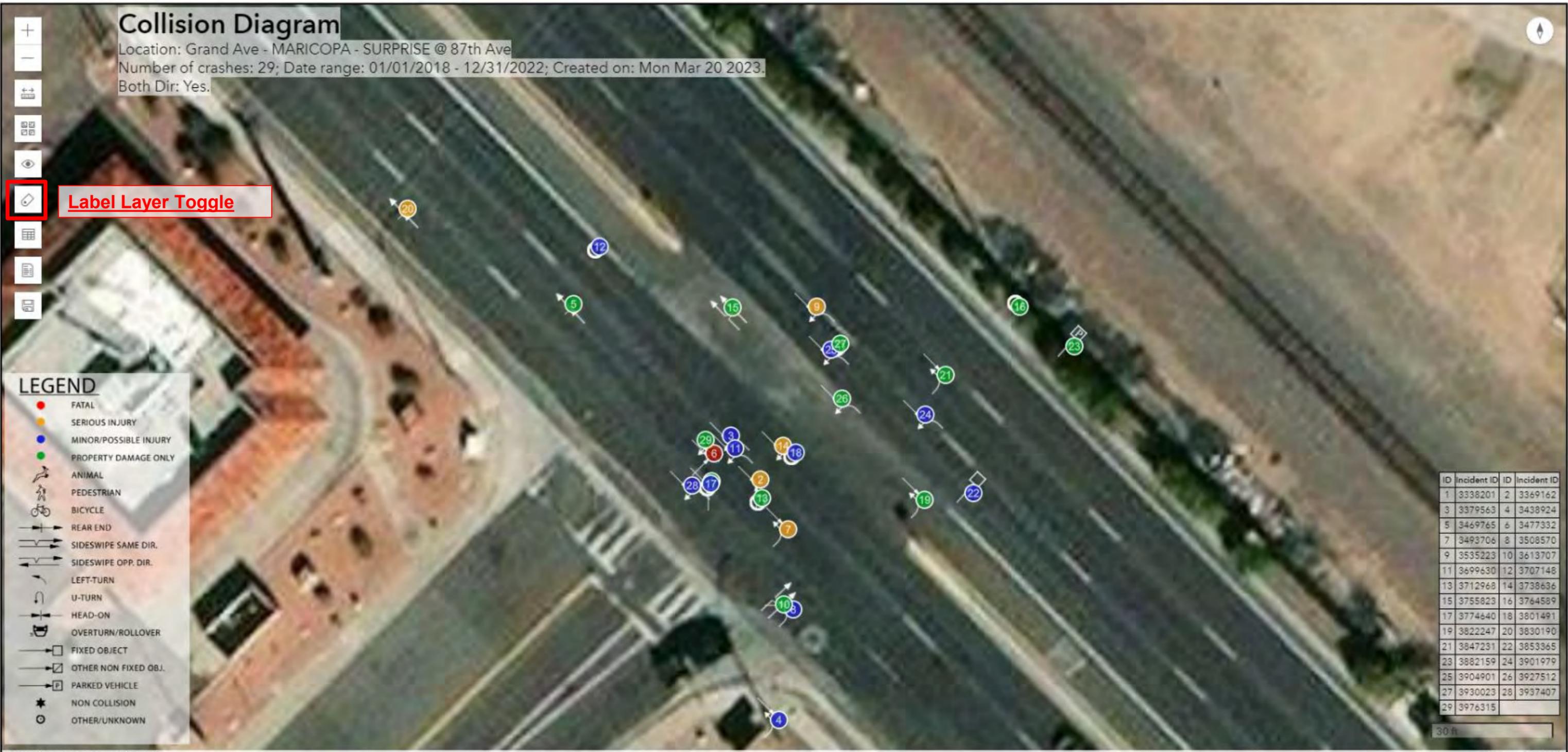
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Label Layer Toggle

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Diagram - Label

Collision Diagram

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30 ft

Diagram - Label

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City of Glendale, Maxar, Microsoft Powered by Esri

Collision Diagram

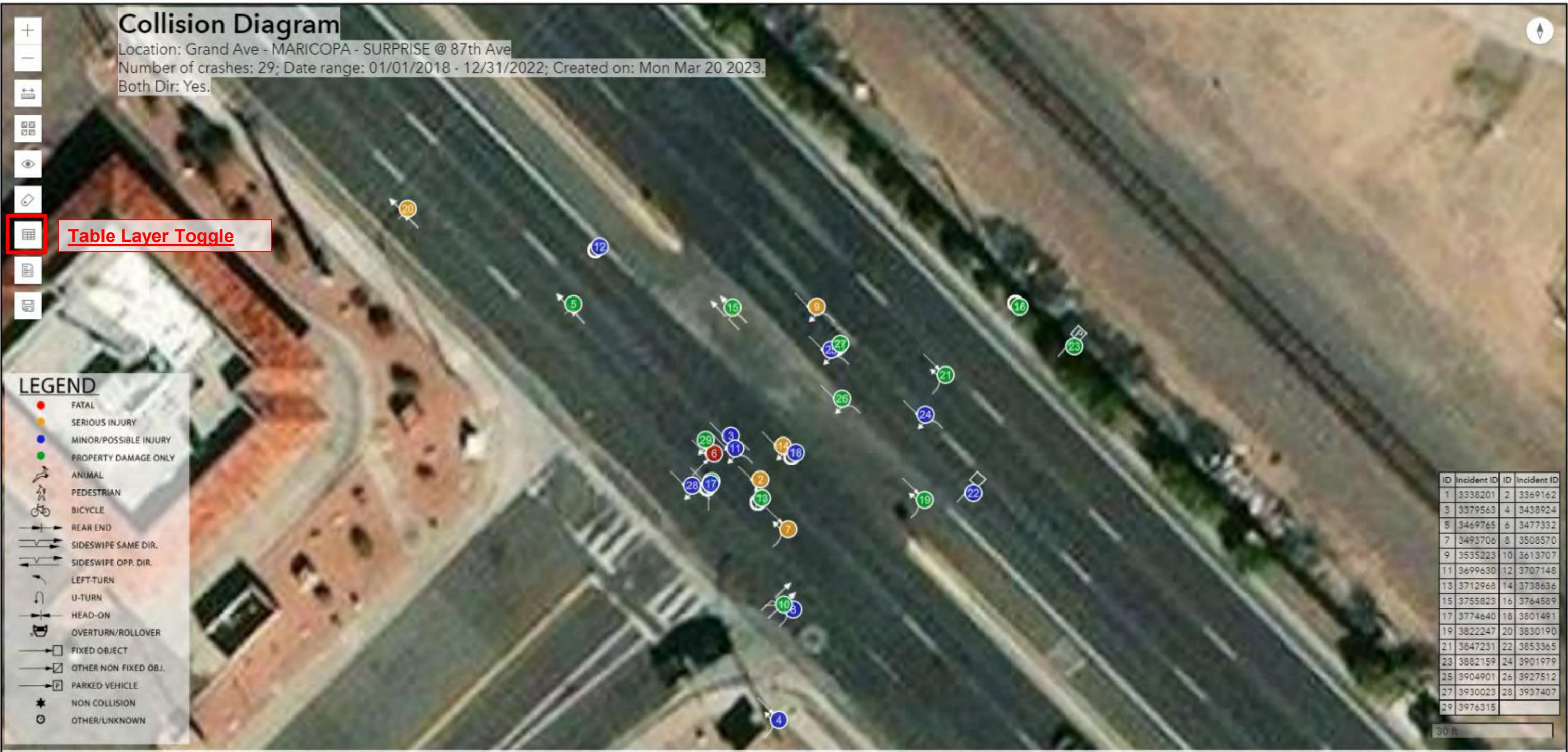
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Table Layer Toggle

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- + (Zoom In)
- (Zoom Out)
- 📏 (Scale)
- 📄 (Layers)
- 👁️ (Visibility)
- 📍 (Location)
- 📅 (Calendar)
- 📄 (Detailed Report)
- 📄 (Print)

Detailed Report

Left click to read the detailed report in a new tab.

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ADOT Incident Level Standard Detail Report

Incident ID	Incident Microfilm	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity Description	Incident First Harmful Description	Incident Collision Manner Description	Incident Weather Description	Incident Junction Relation Description	Latitude	Longitude	X	Y
3632868		3/12/2020 12:14:00 PM	010 0	M001	0.03	Suspected Serious Injury	Motor Vehicle In Transport	Rear End	Rain	Not Junction Related	33.8025288992345	-114.514189714865	-90979.6601894138	956681.049179041
3668304		7/24/2020 4:43:00 PM	010	M001	0.02	No Injury	Other Non Fixed Object	Single Vehicle	Clear	Not Junction Related	33.8023744463497	-114.51434459626	-91028.2463810207	956626.012091407
3675289		8/19/2020 7:45:00 AM	010	M001	0.77	No Injury	Impact Attenuator Crash Cushion	Single Vehicle	Cloudy	Not Junction Related	33.6046414700528	-114.501697007287	-87155.2273640397	957354.723603397
3697000		10/18/2020 6:47:00 PM	010 0	M001	0.41	Suspected Serious Injury	Fence	Single Vehicle	Clear	Not Junction Related	33.6033458554943	-114.507689802138	-88992.3706540466	956928.705622886
3727577		1/31/2021 2:27:00 AM	010	M002	0.75	Suspected Minor Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Clear	Not Junction Related	32.8095705518533	-114.484641539209	-81915.8250768236	959018.538895945
3728891		1/28/2021 5:23:00 PM	010	M001	0.02	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.8023744463497	-114.51434459626	-91028.2463810207	956626.012091407
3748017		3/22/2021 11:46:00 PM	010	M001	0.46	No Injury	Fire Explosion	Single Vehicle	Clear	Not Junction Related	33.6032914408047	-114.506814671339	-88726.3069439088	956902.296657627
3753328		3/30/2021 2:28:00 PM	010 0	M002	0	Suspected Minor Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6063052056012	-114.497039458216	-85721.492974174	957924.91194897
3760205		5/1/2021 10:30:00 AM	010	M002	0.04	No Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Cloudy	Entrance Exit Ramp	33.8061863047509	-114.49634735061	-85511.7694141901	957876.374204816
3776114		6/5/2021 5:35:00 PM	010	M001	0.94	No Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Clear	Not Junction Related	33.8054359934443	-114.498945833219	-86310.0364233245	957623.004927384
3786883		7/7/2021 7:35:00 AM	010	M002	0	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6060199857515	-114.496922511507	-85688.462881879	957820.202716737
3786884		7/7/2021 7:45:00 AM	010	M002	0	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6060199857515	-114.496922511507	-85688.462881879	957820.202716737
3832913		11/3/2021 12:52:00 AM	010 0	M002	0.05	No Injury	Overturn Rollover	Single Vehicle	Clear	Not Junction Related	33.6065413430506	-114.496222680054	-85470.574904876	958004.682458629
3832968		10/31/2021 3:21:00 PM	010	M002	0.27	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6072973008274	-114.492505028372	-84331.4010132611	958251.81778671
3836532		11/18/2021 9:52:00 AM	010	M001	0	No Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Clear	Not Junction Related	33.6023634754497	-114.514690506419	-91133.7116134035	956624.664119556
3838652		11/24/2021 1:50:00 PM	010 0	M001	0.02	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6025225804006	-114.514362583685	-91032.3731336185	956680.071367476
3855773		1/9/2022 4:23:00 PM	010	M002	0.41	Suspected Minor Injury	Overturn Rollover	Single Vehicle	Clear	Not Junction Related	33.6079606534422	-114.49021061506	-83626.5692761848	958475.686442702
3885842		3/31/2022 12:01:00 PM	010	M001	0.06	Suspected Minor Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Clear	Not Junction Related	33.6024003716346	-114.513652182017	-90817.1047947536	956630.154476816
3895590		4/21/2022 6:05:00 AM	010 0	M001	0.81	No Injury	Other Fixed Object	Single Vehicle	Clear	Not Junction Related	33.6051326564529	-114.5011006601	-86969.1210276614	957528.979150665
3898147		4/30/2022 12:05:00 AM	010	M001	0.13	Suspected Serious Injury	Motor Vehicle In Transport	Other	Clear	Not Junction Related	33.6024820092837	-114.51244361826	-90448.2353143453	956650.632203049
3901870		4/25/2022 5:12:00 PM	010 0	M001	0.46	No Injury	Motor Vehicle In Transport	Rear End	Clear	Not Junction Related	33.6035328578534	-114.506852732669	-88735.699640591	956990.46373212
3902548		5/6/2022 7:48:00 PM	010 0	M003	0	No Injury	Motor Vehicle In Transport	Sideswipe Same Direction	Clear	Not Junction Related	33.6109985089805	-114.480801521199	-80733.3934542643	959510.303866176
3944644		9/18/2022 11:15:00 AM	010 0	M002	0.2	Suspected Minor Injury	Overturn Rollover	Single Vehicle	Clear	Not Junction Related	33.6072517464342	-114.493785329109	-84715.6730682732	958244.59657888

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Collision Diagram

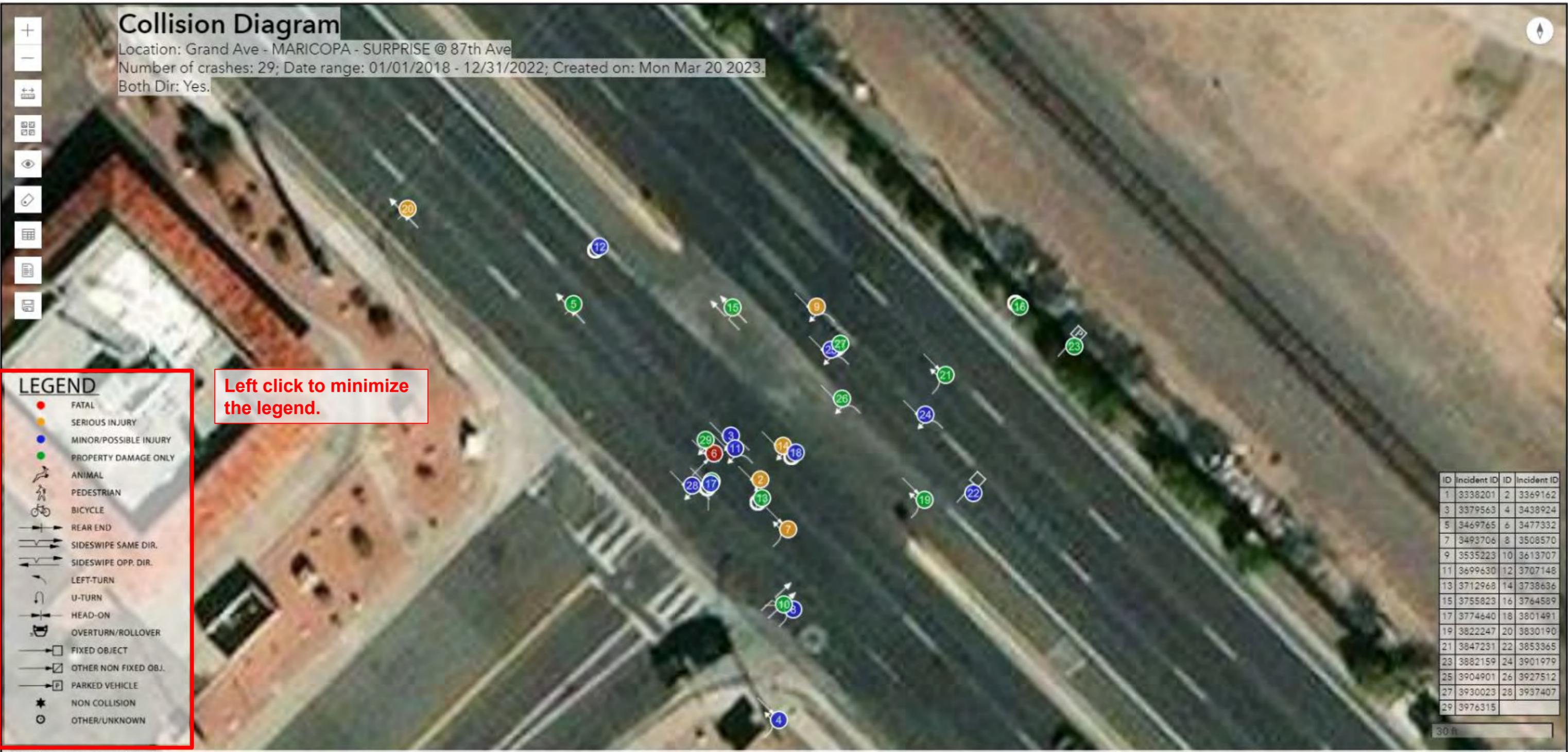
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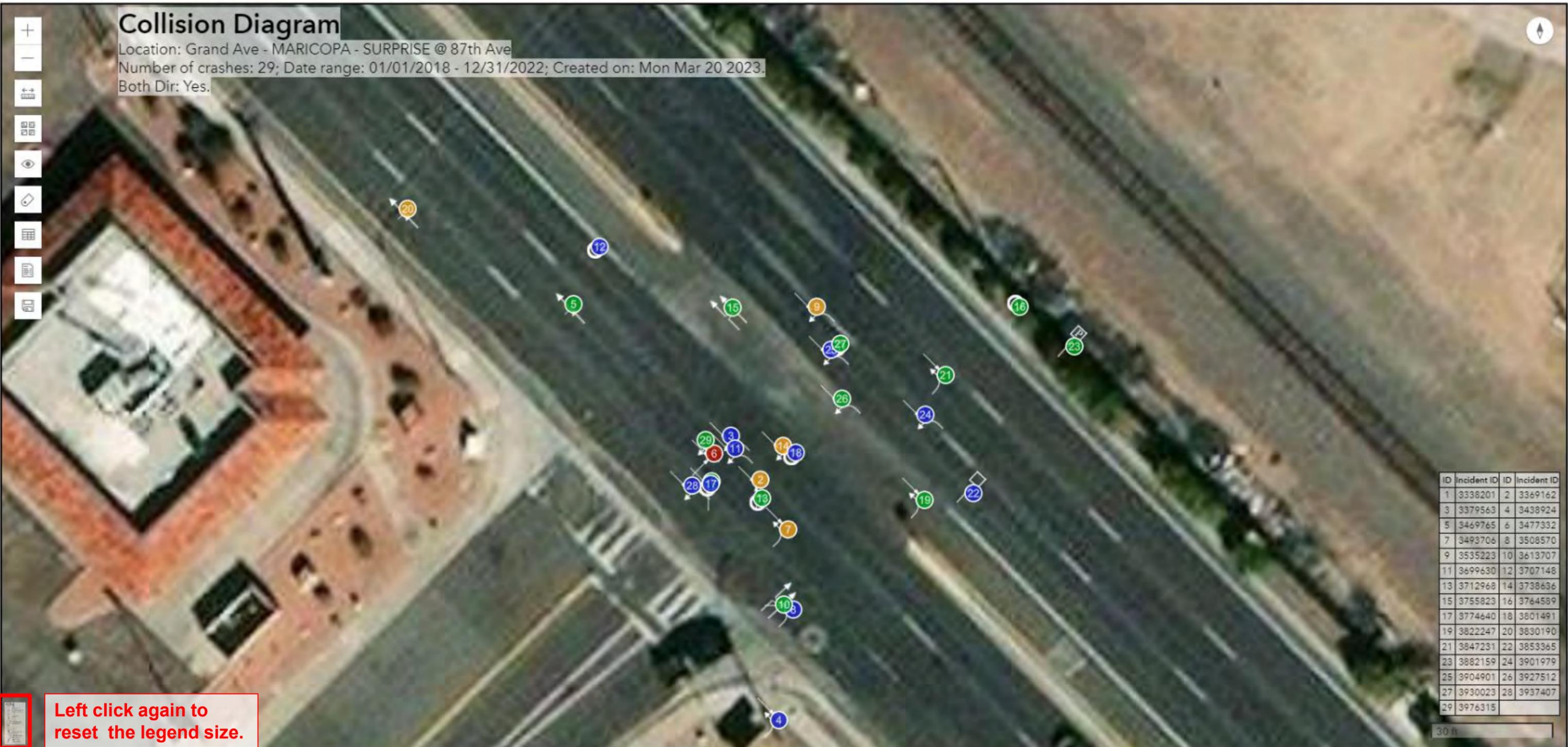


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Diagram - Legend

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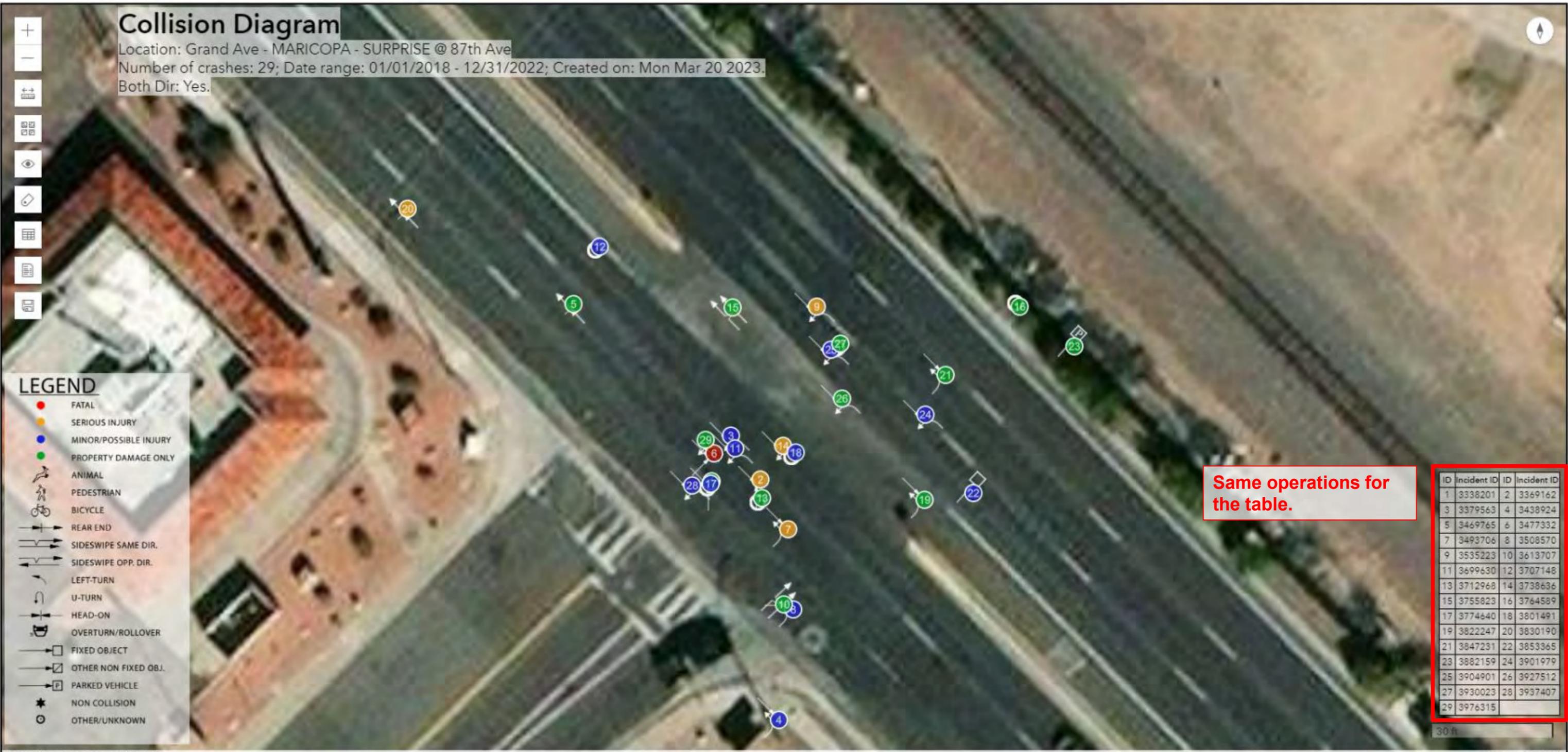
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- SERIOUS INJURY
- MINOR/POSSIBLE INJURY
- PROPERTY DAMAGE ONLY
- ANIMAL
- PEDESTRIAN
- BICYCLE
- REAR END
- SIDESWIPE SAME DIR.
- SIDESWIPE OPP. DIR.
- LEFT-TURN
- U-TURN
- HEAD-ON
- OVERTURN/ROLLOVER
- FIXED OBJECT
- OTHER NON FIXED OBJ.
- PARKED VEHICLE
- NON COLLISION
- OTHER/UNKNOWN



Same operations for the table.

ID	Incident ID	ID	Incident ID
1	3338201	2	3369162
3	3379563	4	3438924
5	3469765	6	3477332
7	3493706	8	3508570
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23	3882159	24	3901979
25	3904901	26	3927512
27	3930023	28	3937407
29	3976315		

30 ft

Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

Left Click
 the symbol to view
 detailed information
 of the incident.

- + (Zoom In)
- (Zoom Out)
- Map Style Selector
- Layers Panel
- Home
- Measure
- Info
- Print

LEGEND

- FATAL
- SERIOUS INJURY
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- PARKED VEHICLE
- NON COLLISION
- OTHER/UNKNOWN

Zoom to

Incident#: 5

Incident ID	3469765
Incident date/time	2/2/2019 2:18:00 PM
Severity	No Injury
On Road	Grand Ave
Crossing Feature/Milepost	87th Ave
Offset	-50.00
First Harmful Event	Motor Vehicle In Transport

ID	Incident ID	ID	Incident ID
1	3338201	2	3369162
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Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.



LEGEND

- FATAL
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- FIXED OBJECT
- OTHER NON FIXED OBJ.
- PARKED VEHICLE
- NON COLLISION
- OTHER/UNKNOWN

Zoom to

Incident#: 5

Incident ID	3469765
Incident date/time	2/2/2019 2:18:00 PM
Severity	No Injury
On Road	Grand Ave
Crossing Feature/Milepost	87th Ave
Offset	-50.00
First Harmful Event	Motor Vehicle In Transport

Left Click the cross icon to close the pop-up window.

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Collision Diagram

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 Number of crashes: 29; Date range: 01/01/2018 - 12/31/2022; Created on: Mon Mar 20 2023.
 Both Dir: Yes.

Right Click
 the symbol to
 activate the handle.

LEGEND

- FATAL
- SERIOUS INJURY
- MINOR/POSSIBLE INJURY
- PROPERTY DAMAGE ONLY
- ANIMAL
- PEDESTRIAN
- BICYCLE
- REAR END
- SIDESWIPE SAME DIR.
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Collision Diagram

Location: Grand Ave - MARICOPA - SURPRISE @ 87th Ave
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To move the symbol:
 Move the cursor close to the red dot.
Hold the left button, drag to start moving, and release to end moving.

- + (Zoom In)
- (Zoom Out)
- Home
- Layers
- Full Screen
- Measure
- Info
- Print
- Share

LEGEND

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Collision Diagram

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To rotate the symbol:
 Move the cursor close to the yellow square.
Hold the left button, drag to start rotating, and release to end rotating.

LEGEND

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- MINOR/POSSIBLE INJURY
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- BICYCLE
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Left click elsewhere on the map to deactivate the handle.



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Outline

- ACIS functions
- What reports ACIS provides
- How to produce a ACIS report
- How to produce collision diagram
- **How to produce network screening report**

Network Screening (NS) Report

General

Network Screening Report Type*

Violation Type

Incident Date

01/01/2022 - 12/31/2022

Ranking Criteria*

2 or more fatal and serious injury crashes

Segments or Intersections or Ramps*

State Highway (SHS) Milepost (MP) Segments

Location

Location Criteria*

Statewide

Output

Output Report As*

Excel

[View Report](#) [Add Favorite](#)

- ✓ **General**
 - **Report Type**
 - **Crash Period**
 - **Flags**
 - **Ranking Criteria**
 - **Segments/ Intersections/ Ramps**
- ✓ **Location**
 - **Location Criteria**
- ✓ **Output Report**
 - **Data –**
Excel/PDF/CSV/XML/HTML

The location list will show the top crash locations with at least 2 or more fatal/serious injury crashes. The same list can be produced for locations with 10 or more total crashes. The type of locations are milepost segments (SHS only), ramps, and intersections.

General

*Network Screening Report Type**
Locations List

Incident Date
01/01/2022 - 12/31/2022

Incident Flags
Pedestrian x

*Ranking Criteria**
2 or more fatal and serious injury crashes

*Segments or Intersections or Ramps**
State Highway (SHS) Milepost (MP) Segments
State Highway (SHS) Milepost (MP) Segments
Intersections
State Highway (SHS) Ramps

NS MP segments sample output

Network Screening Report: Locations List - State Highway (SHS)										
Rank	On Road	Mile Post	District	K+A Total	Fatal (K)	Serious (A)	Minor/Poss (B+C)	PDO (O)	Total	
1	I-10	M259	Southcentral	3	2	1	33	105	141	
2	I-10	M255	Southcentral	1	1	0	23	90	114	
3	I-10	M264	Southcentral	5	3	2	19	83	107	
4	I-10	M258	Southcentral	2	0	2	29	72	103	
5	I-10	M257	Southcentral	1	0	1	25	77	103	
6	I-19	M062	Southcentral	1	0	1	13	78	92	
7	I-10	M256	Southcentral	2	0	2	15	73	90	
8	I-10	M262	Southcentral	5	3	2	16	68	89	
9	I-10	M260	Southcentral	1	0	1	23	61	85	
10	I-10	M251	Southcentral	0	0	0	10	73	83	
11	I-10	M253	Southcentral	0	0	0	17	63	80	
12	I-10	M254	Southcentral	2	1	1	16	61	79	
13	I-10	M250	Southcentral	1	0	1	16	62	79	
14	SR-77	M073	Southcentral	2	1	1	15	54	71	
15	I-10	M252	Southcentral	0	0	0	9	59	68	
16	I-10	M181	Southcentral	2	1	1	18	46	66	
17	I-19	M061	Southcentral	4	0	4	14	46	64	
18	I-10	M249	Southcentral	0	0	0	8	52	60	
19	I-10	M247	Southcentral	2	1	1	8	48	58	
20	I-10	M248	Southcentral	1	0	1	7	46	54	
21	I-10	M177	Southcentral	0	0	0	17	36	53	
22	I-10	M241	Southcentral	1	1	0	4	47	52	
23	I-10	M266	Southcentral	2	0	2	9	40	51	
24	I-10	M178	Southcentral	3	1	2	17	30	50	
25	I-10	M179	Southcentral	3	1	2	12	35	50	
26	I-10	M199	Southcentral	2	0	2	13	33	48	
27	I-10	M242	Southcentral	0	0	0	10	37	47	
28	I-10	M261	Southcentral	3	0	3	15	28	46	
29	I-10	M268	Southcentral	2	0	2	13	31	46	
30	I-10	M180	Southcentral	3	2	1	8	34	45	
31	I-10	M184	Southcentral	3	1	2	12	28	43	
32	I-19	M060	Southcentral	4	2	2	5	33	42	
33	I-10	M265	Southcentral	1	0	1	12	29	42	
34	I-10	M267	Southcentral	1	0	1	8	33	42	
35	I-10	M176	Southcentral	4	1	3	9	28	41	
36	I-10	M243	Southcentral	0	0	0	10	30	40	
37	I-10	M263	Southcentral	6	1	5	8	25	39	
38	I-19	M063	Southcentral	2	0	2	8	29	39	

The crash type list will show the top crash types for locations with at least 2 or more fatal/serious injury crashes. The same list can be produced for locations with 10 or more total crashes. The type of locations are milepost segments (SHS only), ramps, local (non-SHS) intersections, and SHS intersections.

General

*Network Screening Report Type**

Crash Type

Incident Date

01/01/2022 - 12/31/2022

*Ranking Criteria**

2 or more fatal and serious injury crashes

*Segments or Intersections or Ramps**

State Highway (SHS) Milepost (MP) Segments

State Highway (SHS) Milepost (MP) Segments

State Highway (SHS) Ramps

State Highway (SHS) Intersections

Non State Highway (Non-SHS) Intersections

NS Crash Type Output

Network Screening ReportCrash Type - State Highway (SHS) Milepost							
Rank	Crash Type	Severity					Total
		K+A Total	Fatal (K)	Serious (A)	Minor/Poss (B+C)	PDO (O)	
1	Single Vehicle	2367	697	1670	10771	32112	45250
2	Rear End	1050	203	847	26699	59090	86839
3	Head On	346	213	133	199	142	687
4	Sideswipe Same Direction	334	53	281	4548	26231	31113
5	Pedestrian	285	170	115	135	1	421
6	Angle (Front To Side)(Other Than Left Turn)	111	10	101	660	1209	1980
7	Left Turn	87	6	81	498	794	1379
8	Sideswipe Opposite Direction	83	49	34	214	420	717
9	Pedalcyclist	50	16	34	110	0	160
10	U Turn	8	3	5	36	60	104

Report Parameters

Request ID : 0a0c15ed-e08e-455d-b15c-ac2052f953f7
 Incident Date Range : 1/1/2017-12/31/2021
 Network Screening Report Type : Crash Type
 Network Screening Segment/Intersection/Ramp Type : State Highway (SHS) Milepost (MP) Segments
 Network Screening Location Filter : Statewide
 Network Screening Rank Type : 2 or more fatal or serious injury (K+A) crashes
 Report Generated On : 3/10/2023 4:03:24 PM

This report is subject to the provisions of 23 USC § 407. Any intentional or inadvertent release of this material, or any data derived from its use does not constitute a waiver of privilege pursuant to 23 USC §407. 23 USC § 407 - Discovery and admission as evidence of certain reports and surveys. Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

The violation type list will show the top violations for locations with at least 2 or more fatal/serious injury crashes. The same list can be produced for locations with 10 or more total crashes. The type of locations are milepost segments (SHS only), ramps, local (non-SHS) intersections, and SHS intersections.

General

*Network Screening Report Type**

Violation Type

Incident Date

01/01/2022 - 12/31/2022

*Ranking Criteria**

2 or more fatal and serious injury crashes

*Segments or Intersections or Ramps**

State Highway (SHS) Milepost (MP) Segments

State Highway (SHS) Milepost (MP) Segments

State Highway (SHS) Ramps

State Highway (SHS) Intersections

Non State Highway (Non-SHS) Intersections

NS Violation Type Output

Network Screening Report Violation Type - State Highway (SHS)

Rank	Violation	Severity					Total
		K+A Total	Fatal (K)	Serious (A)	Minor/Poss (B+C)	PDO (O)	
1	Failed To Yield Right Of Way	186	64	122	812	1541	2539
2	Speed Too Fast For Conditions	132	28	104	1006	2688	3826
3	Disregarded Traffic Signal	91	24	67	545	712	1348
4	Ran Stop Sign	52	26	26	114	111	277
5	Failed To Keep In Proper Lane	37	11	26	122	582	741
6	Made Improper Turn	35	10	25	177	593	805
7	Exceeded Lawful Speed	19	6	13	53	88	160
8	Followed Too Closely	14	1	13	250	849	1113
9	Drove Left Of Center Line	13	6	7	16	40	69
10	Did Not Use Crosswalk	11	4	7	4	0	15
11	Unsafe Lane Change	9	2	7	95	742	846
12	Aggressive Driving	4	3	1	9	11	24
13	Drove Rode In Opposing Traffic Lane	3	2	1	17	20	40
14	Knowingly Operated With Faulty	2	0	2	5	8	15
15	Crossed Median	2	2	0	0	0	2

Report Parameters

Request ID : c60aeb51-a005-41b6-9b92-1c03707310bb

Incident Date Range : 1/1/2017-12/31/2021

Network Screening Report Type : Violation Type

Network Screening Segment/Intersection/Ramp Type : State Highway (SHS) Intersections

Network Screening Location Filter : Statewide

Network Screening Rank Type : 2 or more fatal or serious injury (K+A) crashes

Report Generated On : 3/10/2023 4:09:47 PM

This report is subject to the provisions of 23 USC § 407. Any intentional or inadvertent release of this material, or any data derived from its use does not constitute a waiver of privilege pursuant to 23 USC §407. 23 USC § 407 - Discovery and admission as evidence of certain reports and surveys. Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

The NS locations, crash types, and violation types can be run for all crashes (statewide) or county, city, district, COG/MPO, or tribal area.

Location

*Location Criteria**

Statewide

Select a Location Criteria

- Statewide
- County
- City
- COG/MPO
- Tribal Area
- Engineer District

Output

*Output Report As**

Excel

Select a format for the report

- Report
- PDF
- Excel
- CSV
- XML