



Arizona Crash Data Reporting and Applications

ADOT Team

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Traffic and Criminal Software (TraCS)

What is TraCS

TraCS is an award-winning software for public safety professionals. It enables retrieving, and managing incident information anytime, anywhere.

Arizona, along with **16 other states**, utilize TraCS for crash reporting. Currently **over 80 law enforcement agencies** in Arizona, including **five tribal agencies** (Gila River PD was the first tribal agency to transmit crash reports), employ TraCS

NATIONAL MODEL MEMBERS



Benefits of TraCS

- Data Collection Efficiency
- Improved Accuracy
- Information Sharing
- Streamlined Workflow
- Advanced Ad Hoc reporting
- Electronic transmittals ensuring real-time data

The screenshot displays the TraCS software interface for an Arizona Crash Report. The window title is "Arizona Crash Report (Open)". The interface includes a menu bar (File, Home, View, Actions, Tools, Help) and a toolbar with icons for Navigation, Zoom, Show Status Bar, TraCS Log, Reset, Arrange Forms, Arrange Icons, and Viewers. A left-hand pane titled "Form" contains a "Form Navigation" list with items: Arizona Crash Report ~..., Summary, Crash Location, Vehicle 1 (selected), Passenger 1, Non Motorist 1, Witness 1, Property Damage 1, Crash Diagram, and Crash Narrative. Below this is a "Forms in Contact" section with a "Quick Add" button and an "External Information" link. The main form area is titled "ARIZONA CRASH REPORT" with "Folder.Test-0000". It contains a "Summary" section with fields for Agency Report Number, Date, Time, Jurisdiction, Officer ID, and District/Ord. Below this is a "Location" section with checkboxes for Interstate, State Highway, City, County, Tribal, and Other Roadway, and fields for County, City Limits (Inside/Outside), City (Nearest City), On Road, Interstate/Highway Number, Milepost/Ramp Number, Referencing Intersecting Road/Street, Offset Distance, Offset Direction, and Approx. Meas. The form also includes a "Literal Description" section with X and Y coordinates, and a "Motor Vehicle 001" section with fields for Roadway Clearance Date, Roadway Clearance Time, Incident Clearance Date, and Incident Clearance Time.

ARIZONA CRASH REPORT							
Folder.Test-0000							
Summary							
Agency Report Number	Date	Time	Jurisdiction	Officer ID	District/Ord		
Reportable	Police Reported	Ownership	Total Vehicles	Total Non-Motorists	Total Injures	Total Fatalities	
Location							
☐ Interstate ☐ State Highway ☐ City ☐ County ☐ Tribal ☐ Other Roadway							
County		City Limits ☐ Inside ☐ Outside		City (Nearest City)			
On Road			Interstate/Highway Number		Milepost/Ramp Number		
Referencing Intersecting Road/Street			Offset Distance		Offset Direction		☐ Approx. ☐ Meas.
Literal Description				X Coordinate		Y Coordinate	
Roadway Clearance Date		Roadway Clearance Time		Incident Clearance Date		Incident Clearance Time	
Motor Vehicle 001							

Real World Application

- **Quickly clear incidents** by scanning and importing licenses and registration into forms; auto-populate additional supporting forms.
- Law enforcement agencies that can **apply more detailed query tools** into other agencies' data, especially neighboring and regional records, will be **more successful in identifying suspects and ultimately solving crimes.**

*The likelihood of a **secondary crash** increases by approximately **2.8%** for each minute the primary incident remains a hazard.*

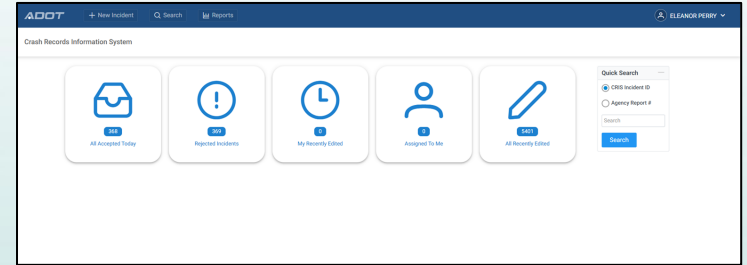
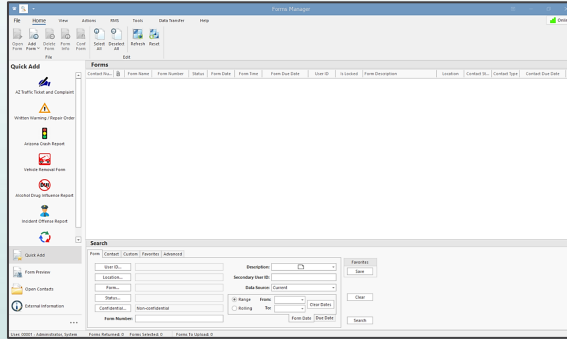
Redaction

- All **personally identifiable information** can be **removed** from transmission to ADOT.
- Agency would still have access to the complete, unredacted report.

ARIZONA CRASH REPORT										REPORT ID										Agency Report Number									
AZ FORM 001 (REVISED 01-01-2016)										AZ FORM 001 (REVISED 01-01-2016)										AZ FORM 001 (REVISED 01-01-2016)									
DATE										TIME										LOCATION									
1. Date										2. Time										3. Location									
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34. Date										35. Time										36. Location									
37. Date										38. Time										39. Location									
40. Date										41. Time										42. Location									
43. Date										44. Time										45. Location									
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142. Date										143. Time										144. Location									
145. Date										146. Time										147. Location									
148. Date										149. Time										150. Location									
151. Date										152. Time										153. Location									
154. Date										155. Time										156. Location									
157. Date										158. Time										159. Location									
160. Date										161. Time										162. Location									
163. Date										164. Time										165. Location									
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169. Date										170. Time										171. Location									
172. Date										173. Time										174. Location									
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211. Date										212. Time										213. Location									
214. Date										215. Time										216. Location									
217. Date										218. Time										219. Location									
220. Date										221. Time										222. Location									
223. Date										224. Time										225. Location									
226. Date										227. Time										228. Location									
229. Date										2																			

Crash Records Information System (CRIS)

TraCS -> CRIS -> ACIS



Crash Records Information System



368

All Accepted Today



369

Rejected Incidents



0

My Recently Edited



0

Assigned To Me



5401

All Recently Edited

Quick Search

☒ CRIS Incident ID

☐ Agency Report #

Search

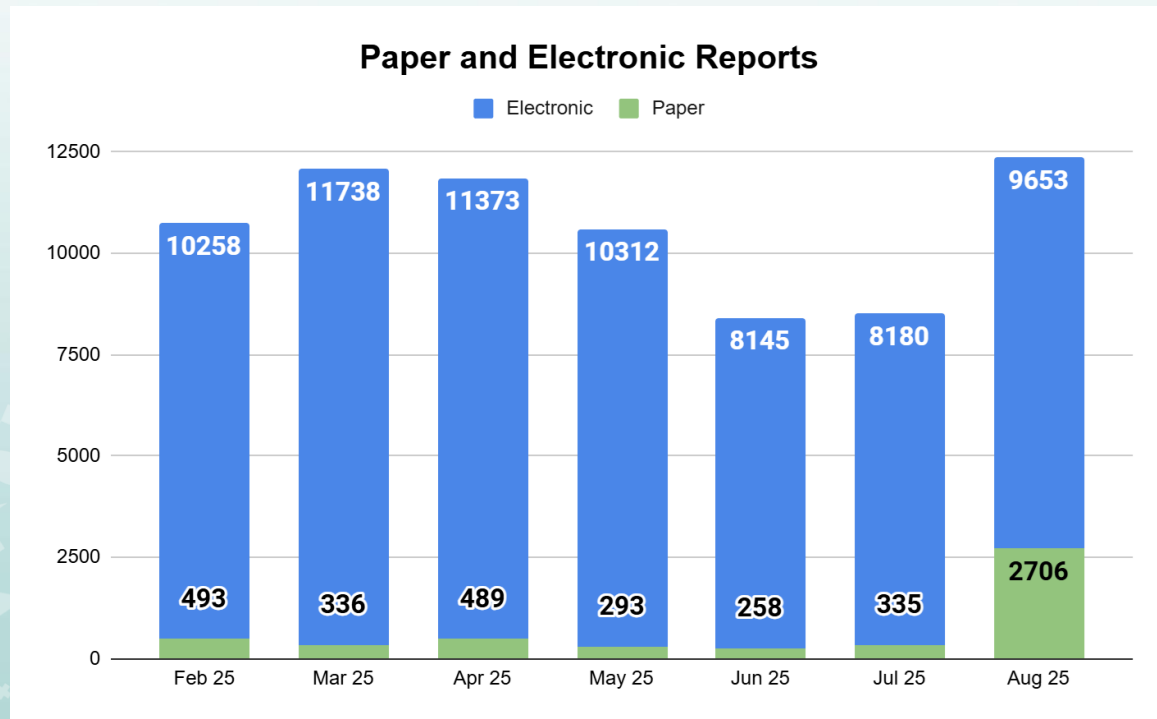
Search

Crash Records Information System (CRIS)

- ❖ The Arizona Department of Transportation's (ADOT) new Crash Records Information System (CRIS) replaced the previous system, Accident Location Identification Surveillance System (ALISS).
- ❖ CRIS was launched at the end of July 2024 and it serves as a central repository for crash data across Arizona.
- ❖ Focus on Safety - CRIS is designed to support the analysis of crash data for highway safety projects. It assists in producing and formatting data for reporting requirements at the local, state, and federal levels.
- ❖ Essentially, CRIS acts as a central hub for crash-related information, providing a valuable resource for ADOT and other entities involved in transportation safety, planning and related decision-making processes.

Electronic vs. Paper Reporting

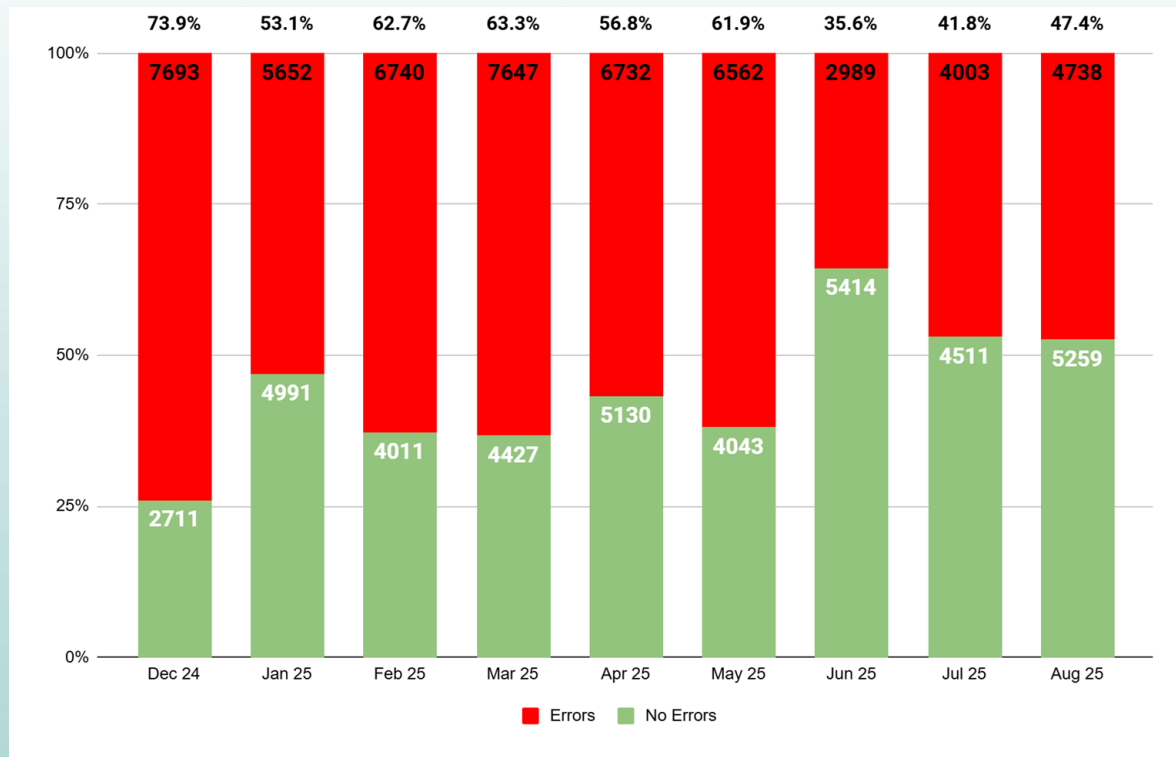
- ❖ 96% of law enforcement agencies are now reporting electronically.
- ❖ 4% of agencies still report using paper via mail or sharefile.



MVD-Crash Records

- ❖ Compiles crash data from all Law Enforcement Agencies
- ❖ Validate Data
- ❖ Provide targeted refresh training to Law Enforcement Agencies
- ❖ Fatality Reporting Information System (FARS)
- ❖ Does not provide Public Records

Errors vs. No Errors



Resources

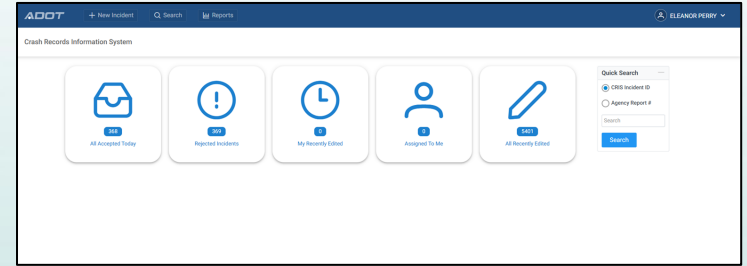
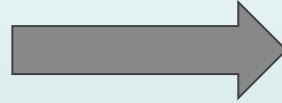
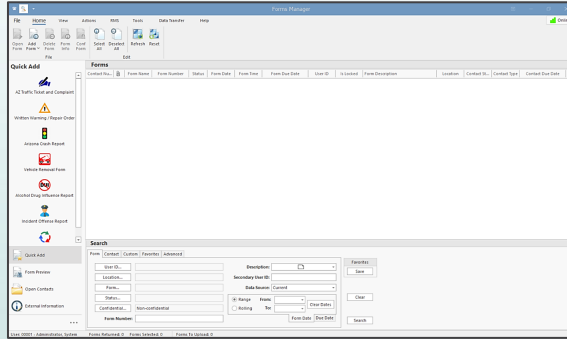
- ❖ [Arizona Crash Report Forms, Resources and Training Events | Department of Transportation](#)

Questions?

- ❖ CrashRecords@azdot.gov

Arizona Crash Information System (ACIS)

TraCS -> CRIS -> ACIS



ACIS – <https://adotdw.dot.state.az/ACIS>

ACIS Arizona Crash Information System **ADOT** f t YouTube

Home Reports ▾ Crash Facts ACIS Route Explorer Favorites Recent ▾ Help Welcome, Sarajol



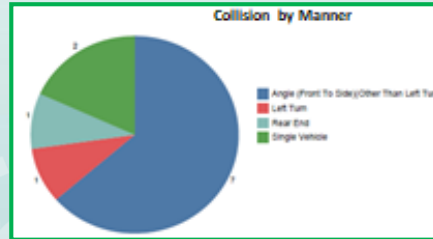
The grid contains the following images:

- Top Left: A parking lot filled with cars and a semi-truck.
- Top Center: The Arizona state flag.
- Top Right: A pedestrian crossing a street.
- Middle Left: A police officer standing next to a motorcycle.
- Middle Center: A police car with flashing red and blue lights.
- Middle Right: A yellow sign that reads "SAFETY CORRIDOR NEXT 4 MILES ZERO TOLERANCE".
- Bottom Left: A father buckling his child in a car seat.
- Bottom Center: A winding road through a desert canyon with several motorcycles.
- Bottom Right: A police officer standing next to a patrol car.

Crash Data for Crash Analysis/ Warrant Study

- ✓ Query Crash Data
 - Statewide
 - By Agency
 - By Project Site
 - By Route / Intersection
- ✓ Statistical Charts / Tables
 - By Agency
 - By Route / Intersection
- ✓ Crash Location Maps/Aerial Maps
 - By Agency
 - By Project Site
 - By Route / Intersection
- ✓ Collision Diagram
 - By Route / Intersection
- ✓ Network Screening
 - Statewide
 - By Agency

1	2	3	4	5	6	7	8	9	10
Incident County Name	Incident Year	Incident Collision Manner Desc	Incident Count	Incident Total Injuries	Incident Total Fatalities	Incident Total Units	Incident Total Percent		
1	2014	Angle Front To Side/Other Than Left Turn	1	1	0	1	100%		
2	2014	Other	1	1	0	1	100%		
3	2014	Other	1	1	0	1	100%		
4	2014	Other	1	1	0	1	100%		
5	2014	Other	1	1	0	1	100%		
6	2014	Other	1	1	0	1	100%		
7	2014	Other	1	1	0	1	100%		
8	2014	Other	1	1	0	1	100%		
9	2014	Other	1	1	0	1	100%		
10	2014	Other	1	1	0	1	100%		
11	2014	Other	1	1	0	1	100%		
12	2014	Other	1	1	0	1	100%		
13	2014	Other	1	1	0	1	100%		
14	2014	Other	1	1	0	1	100%		
15	2014	Other	1	1	0	1	100%		
16	2014	Other	1	1	0	1	100%		
17	2014	Other	1	1	0	1	100%		
18	2014	Other	1	1	0	1	100%		
19	2014	Other	1	1	0	1	100%		
20	2014	Other	1	1	0	1	100%		
21	2014	Other	1	1	0	1	100%		
22	2014	Other	1	1	0	1	100%		
23	2014	Other	1	1	0	1	100%		
24	2014	Other	1	1	0	1	100%		
25	2014	Other	1	1	0	1	100%		
26	2014	Other	1	1	0	1	100%		
27	2014	Other	1	1	0	1	100%		
28	2014	Other	1	1	0	1	100%		
29	2014	Other	1	1	0	1	100%		
30	2014	Other	1	1	0	1	100%		



Features of ACIS

- Crashes are geo-coded to ATIS Routes
- Flags to customize queries are included
- Search by City / County/ ADOT District
- XML data export
- Site Summary Charts and Graphs
- Aerial Map / Map
- Collision Diagram
- Network Screening
- Crash Data Dashboards
- Crash Data Web Viewer Map

Reports



Crash Reports

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



Query Form

Standard Detail Report

General

Incident Date (Crash data is complete through 2022) 1

Incident Flags 2

Location

Location Criteria 3

Route Type (add ramp to this bar to search for ramps) 4

Route 5

Include Both Directions? 6

From Crossing Feature (For a milepost range enter the lower MP number here) 7

Offset for 'From' Crossing Feature (in feet) 8

To Crossing Feature (optional) (Enter the higher milepost number here) 9

Offset for 'To' Crossing Feature (feet) 10

Output

Output Report As* 11

- ✓ **Crash Period**
- ✓ **Crash Flags**
- ✓ **Location**
 - **Open Map**
 - **County/City/ADOT District**
 - **Route/Intersection**
- ✓ **Output Report**
 - **Data – Excel/PDF/CSV/XML**
 - **Visualization (Graphs)**
 - **Map/Aerial Map**

Crash Period

ACIS Arizona Crash Information System

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[Reports](#)
[Crash Facts](#)
[ACIS Route Explorer](#)
[Favorites](#)
[Recent](#)
[Help](#)
Welcome, Sarojal

Collision Manner

General

Incident Date (Crash Data complete through June 2019)*

01/22/2020

01/22/2020

Current Year

Prior Year

Prior 3 Years

Prior 5 Years

Current Month

Prior Month

Apply

Clear

City

Enter a city...

ACIS Flags

- Alcohol Use Flag
- Animal Involved Crash Flag
- Bus Flag
- Crossed Median Flag
- Curve Related Flag
- Dark Light Condition Flag
- Distracted Driving Flag
- Drug Use Flag
- Fatal Accident Flag
- Fixed Object Involved Flag
- GVWR Flag
- Hazmat flag
- Heavy Vehicle Involved Flag
- Hit And Run Flag
- Impairment Flag
- Intersection Flag
- Intersection Turning Flag
- Lane Departure Flag
- Marijuana Use Flag
- Medical Transport Flag
- Medication Use Flag
- Motorcycle Flag
- Multiple Vehicle Involved Flag
- Older Driver Involved Flag
- Overturning Flag
- Pedalcyclist Flag
- Pedestrian Flag
- Pedestrian Or Pedalcyclist Involved Flag
- Speed related Flag
- Run Off Road Flag
- Safety Device Used Flag
- School Bus Related Flag
- Secondary Crash Flag
- Signalized Intersection Flag
- Single Vehicle Involved Flag
- Tow Away Flag
- Truck/Bus Flag
- UnSignalized Intersection Flag
- Vehicle Train Crash Flag
- Workers Present Flag
- Work Zone Related Flag
- Wrong way Crash Flag
- Younger Driver Involved Flag
- Urban Flag
- Rural Flag
- SHS (State Highway System) Flag
- Local Road Flag
- Serious Injury Crash Flag
- Fatal Or Serious Injury Crash Flag
- Road Rage Flag
- Ran stop sign
- Disregarded traffic signal
- Wet Surface Crashes
- Cross Centerline
- Controlled Access Flag
- Safety Device Not Used (child restraint, helmet, seatbelt)
- Weather Related Crashes
- Ramp
- Guardrail
- Median Barrier
- Auto Correct
- Tree Related
- Speed related flag without impairment
- Electronic Report
- Paper Report

Query Parameters

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

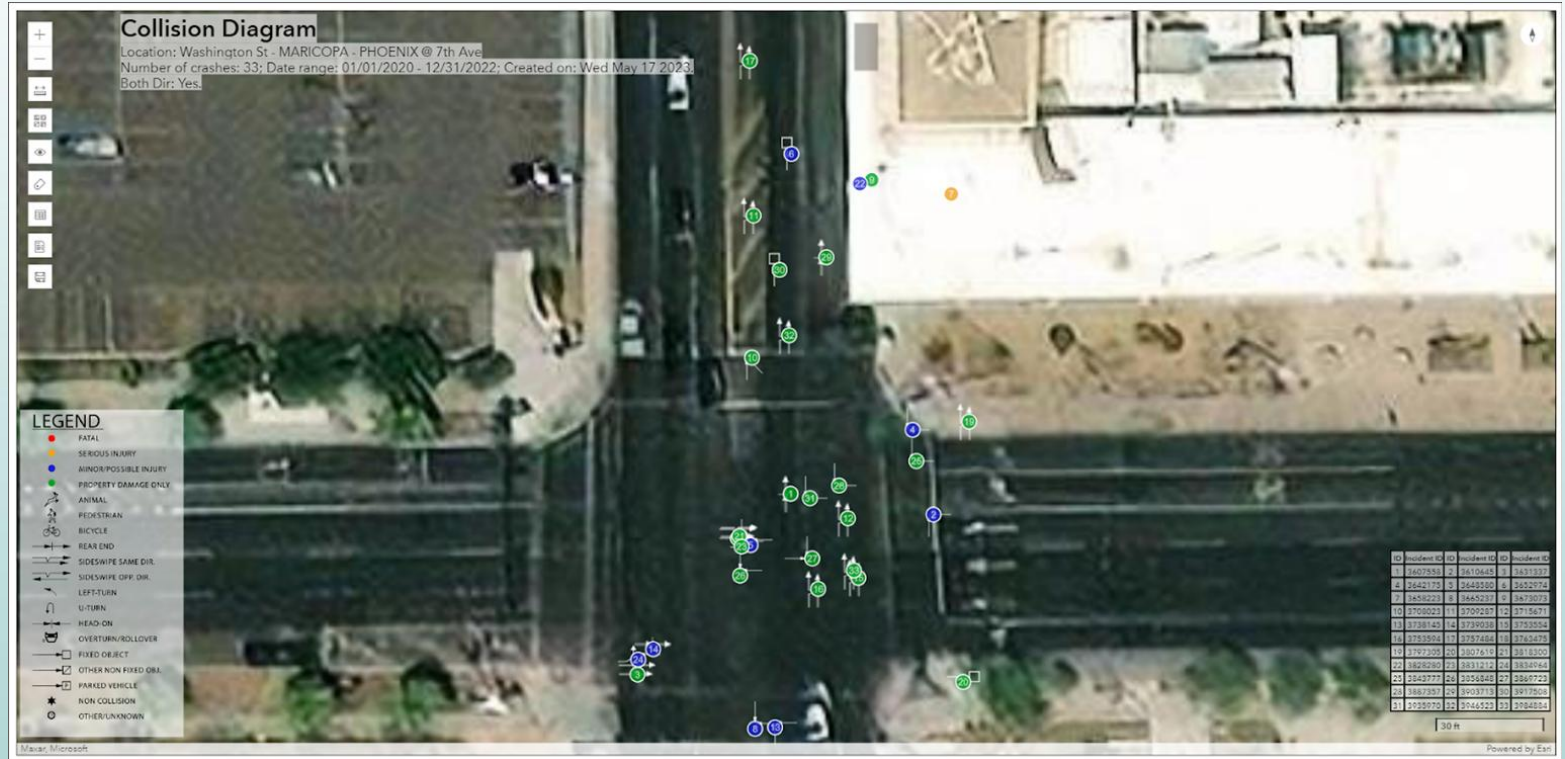
Both Directions Selected? : No

Intersection Selected : M000

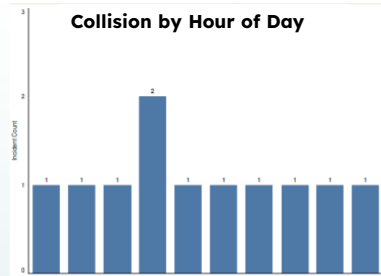
Report Generated On : 2/15/2019 11:58:31 AM

2/15/2019 11:58:31 AM

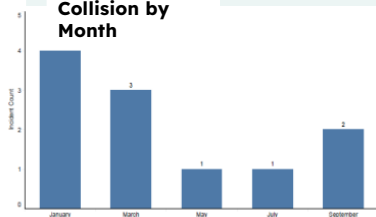
Collision Diagram



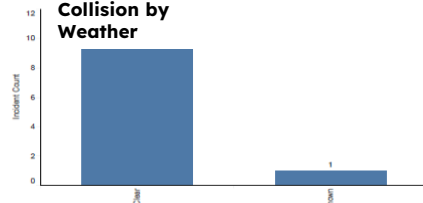
Collision by Hour of Day



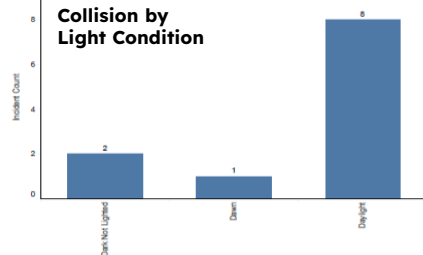
Collision by Month



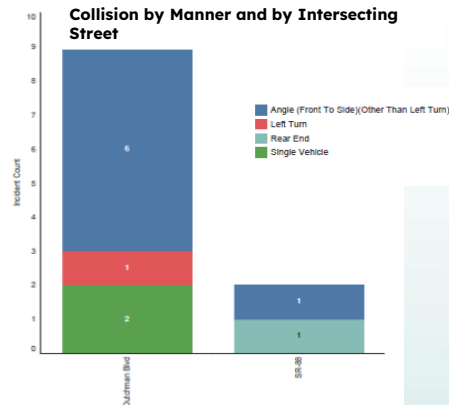
Collision by Weather



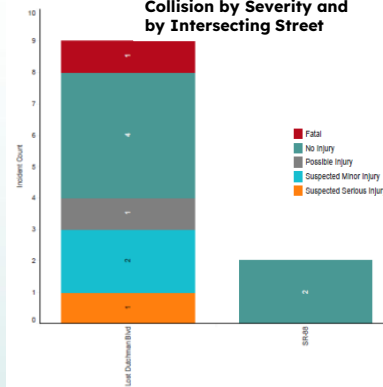
Collision by Light Condition



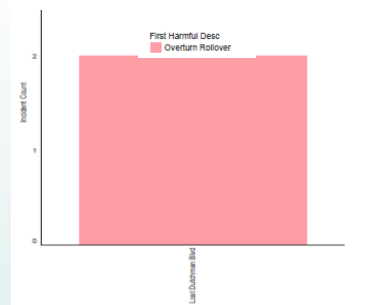
Collision by Manner and by Intersecting Street



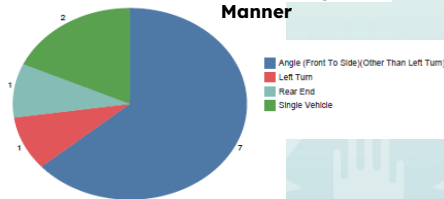
Collision by Severity and by Intersecting Street



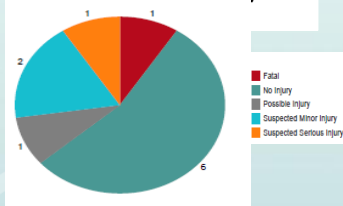
Single Vehicle Collision by FHE and by Intersecting Street



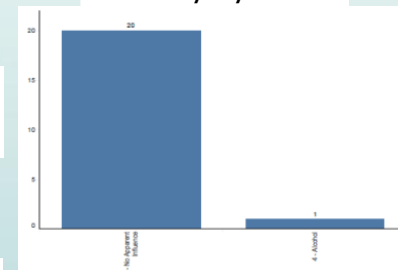
Collision by Manner



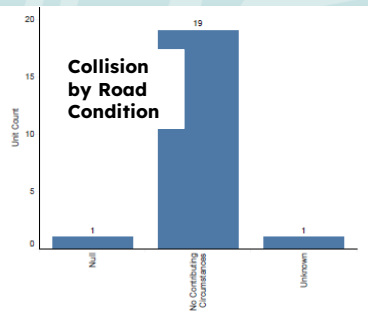
Collision by



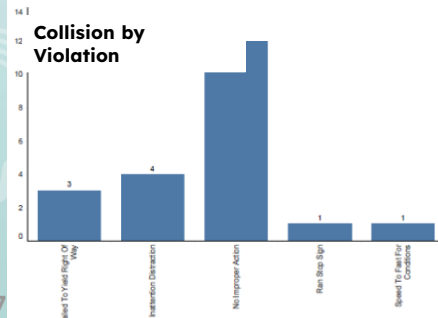
Collision by Physical



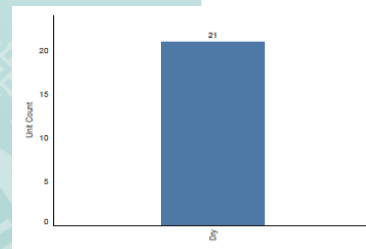
Collision by Road Condition



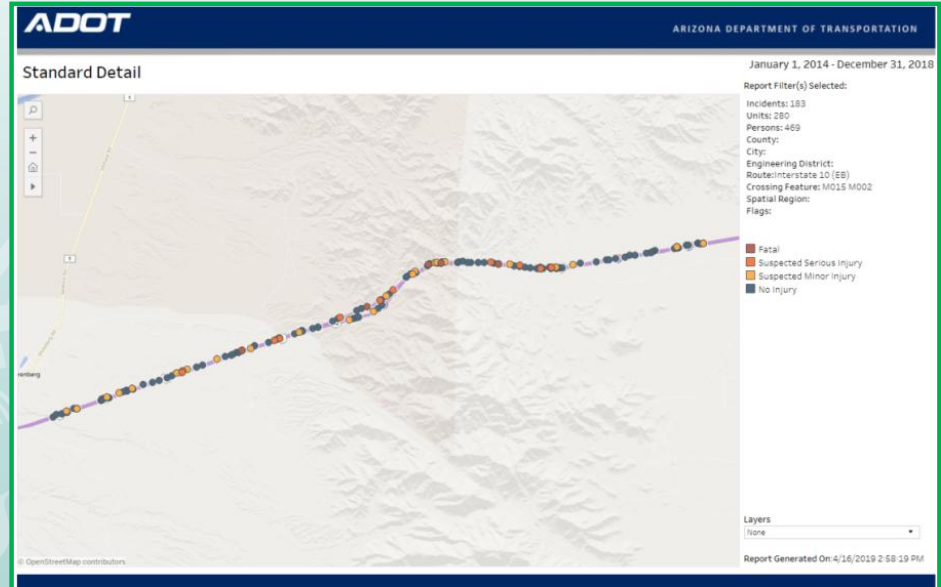
Collision by Violation



Collision by Surface Condition



MAP & Aerial Map



Network Screening Report

Network Screening Report: Locations List - State Highway

Rank	On Road	Mile Post	District	Severity					Total
				K+A Total I	Fatal (K)	Serious (A)	Minor/Poss (B+C)	PDO (O)	
1	I-10	M149	Central	17	5	12	207	496	720
2	I-10	M144	Central	14	2	12	616	1614	2244
3	I-17	M201	Central	13	1	12	406	944	1363
4	I-10	M145	Central	12	3	9	798	2105	2915
5	US-60	M173	Central	12	1	11	232	453	697
6	SR-347	M185	Central	12	2	10	82	124	218
7	I-17	M202	Central	11	1	10	331	746	1088
8	SR-202	M007	Central	11	0	11	183	513	707
9	SR-101	M053	Central	10	1	9	569	1255	1834
10	I-17	M203	Central	10	1	9	334	772	1116
11	I-10	M139	Central	10	3	7	222	604	836
12	I-10	M138	Central	10	4	6	232	565	807
13	I-17	M213	Central	10	1	9	164	367	541
14	I-10	M147	Central	10	2	8	106	349	465
15	SR-202	M005	Central	10	1	9	69	242	321
16	SR-101	M007	Central	10	3	7	76	172	258
17	SR-88	M206	Central	10	2	8	24	19	53
18	I-10	M146	Central	9	2	7	715	1824	2548
19	SR-202	M001	Central	9	0	9	518	1247	1774
20	SR-101	M024	Central	9	4	5	313	739	1061
21	I-17	M206	Central	9	2	7	286	661	956
22	I-17	M207	Central	9	1	8	279	665	953
23	I-10	M136	Central	9	3	6	192	623	824
24	SR-101	M002	Central	9	1	8	203	459	671
25	US-60	M177	Central	9	1	8	198	450	657
26	I-10	M135	Central	9	4	5	155	463	627
27	US-60	M172	Central	9	2	7	165	441	615
28	I-10	M152	Central	9	1	8	147	372	528
29	I-10	M156	Central	9	3	6	128	378	515
30	SR-101	M041	Central	9	3	6	97	248	354
31	SR-69	M295	Northwest	9	0	9	35	79	123
32	I-17	M241	Northwest	9	2	7	25	65	99
33	US-93	M029	Northwest	9	6	3	8	11	28
34	I-10	M142	Central	8	2	6	299	919	1226
35	SR-101	M054	Central	8	1	7	351	856	1215
36	I-17	M204	Central	8	2	6	296	676	980

Crash Facts

ACIS Arizona Crash Information System **ADOT** f t .. You Tube

Home Reports **Crash Facts** ACIS Route Explorer Interactive Crash Data Favorites Recent Help Crash Map Welcome, Saroja!

ADOT
Motor Vehicle Division

MVD Home Services MVD Locations FAQ Contact Us

Home / MVD / MVD Services / Arizona Motor Vehicle Crash Facts

Complete Annual Crash Facts Report

2022 Crash Facts

- [2021 Crash Facts](#)
- [2019 Crash Facts](#)
- [2017 Crash Facts](#)
- [2015 Crash Facts](#)
- [2013 Crash Facts](#)
- [2020 Crash Facts](#)
- [2018 Crash Facts](#)
- [2016 Crash Facts](#)
- [2014 Crash Facts](#)
- [2012 Crash Facts](#)

<https://www.azdot.gov/crashfacts>

Interactive Dashboard

Home Reports ▾ Crash Facts ACIS Route Explorer **Interactive Crash Data ▾** Favorites ▾ Recent ▾ Help ▾ Crash Map Welcome, Saroja! 

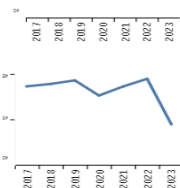
< By City/County By Engineering District By COG/MPO By Tribal Area By Investigating Agency >

TSMO Analytics | Crash Data Overview by Incident Count

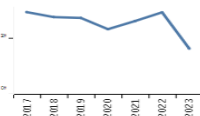
These reports display the agency based crash data and trends for various crash parameters for the last 7 years. This report allows the user to select the agency from the pull-down menu and also to update the numbers and trends by selecting the incident year and SHS flag and urban/rural. Crash data is complete through 2022. Data for 2023 is preliminary and subject to change. Please note the data disclaimer that appears at the bottom of this dashboard.



All Crashes
795,059



Motorcycle
17,697



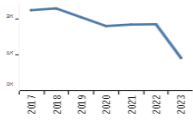
Bicycle
7,695



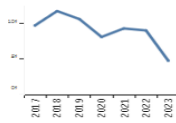
Pedestrian
11,446



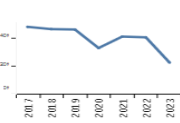
Animal Involved Crash
12,918



Distracted Driving
62,944



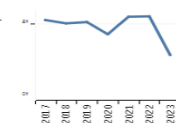
Speed Related
276,605



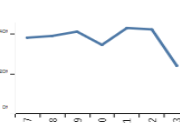
Impairment
40,247



Safety device not used
33,480



Lane Departure
260,415



Cross Median (multi-vehicle only)
733



Wrong Way
634



Year

☒ (All)

☒ 2017

☒ 2018

☒ 2019

☒ 2020

☒ 2021

☒ 2022

☒ 2023

Injury Severity

☒ (All)

☒ Fatal

☒ No Injury

☒ Possible Injury

☒ Suspected Minor Injury

☒ Suspected Serious Injury

State Highway System (SHS) Flag

(All)

Urban

(All)

Rural

(All)

City or County*

(All)

*Note: Crashes that do not have a location to geocode are not assigned to a City or County.

Crash Map

ACIS Arizona Crash Information System

ADOT f t y o u b

Home

Reports ▾

Crash Facts

ACIS Route Explorer

Interactive Crash Data ▾

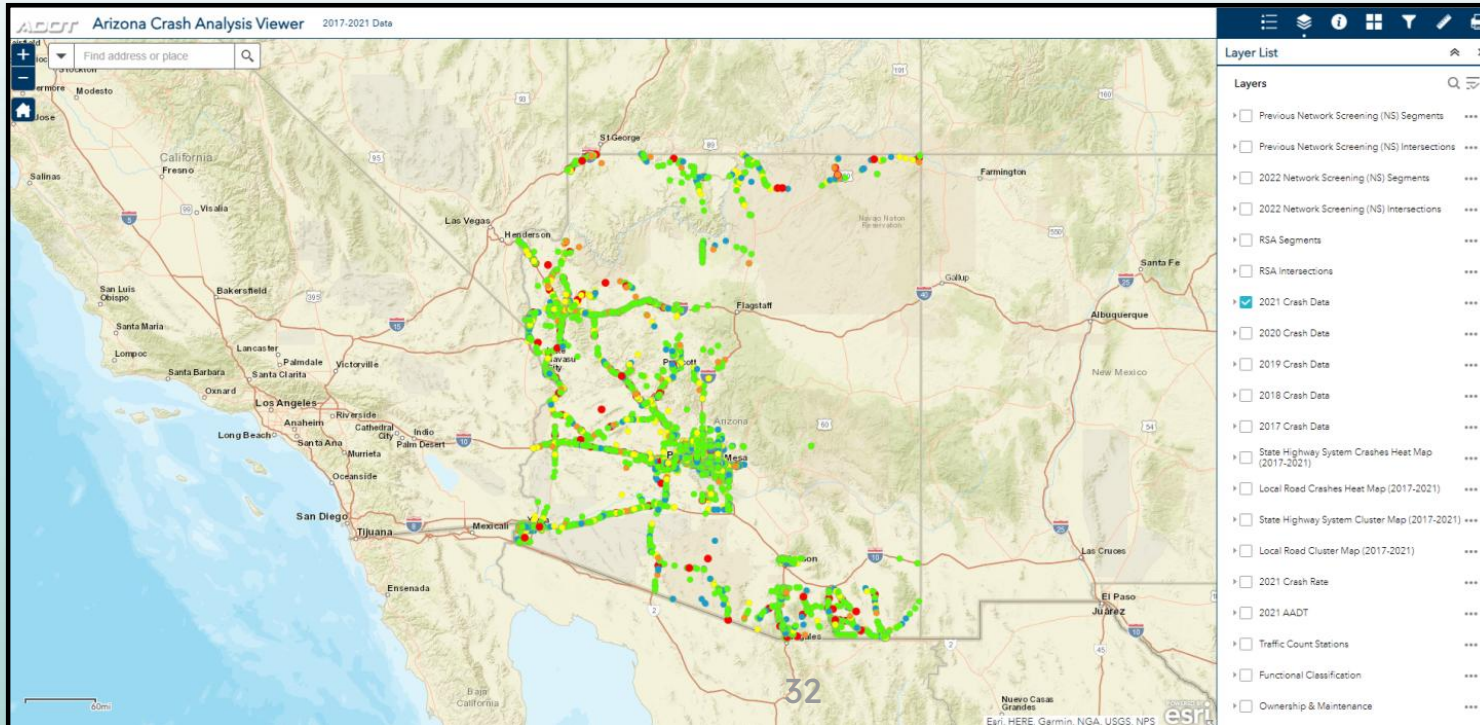
Favorites ▾

Recent ▾

Help ▾

Crash Map

Welcome, Saroja!



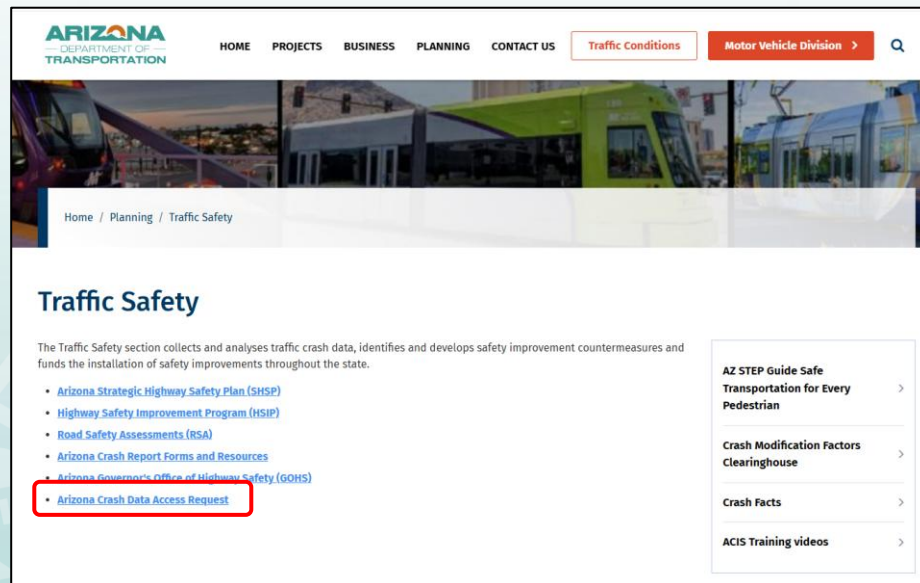
Crash Numbers Don't Match - ACIS

- ✓ *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*

ACIS Access

ALL entities need a Data Access Agreement in place to access ACIS

*** Government Agencies or Consultants shall submit waiver form for Crash Report requests**



<https://azdot.gov/planning/traffic-safety>

ACIS – Access and Support Contact

ACIS Access

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ACIS Support

John Riemer Jriemer@azdot.gov

Saroja Devarakonda Sdevarakonda@azdot.gov

Questions ??

Thank You!