ACIS – Arizona Crash Information System
Training Video 1
ACIS Features and Reports

ADOT Traffic Safety Group
Created on February 4, 2021
ACIS – [Link](https://adotdw/acis)
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
- Dashboards - Agency Summary Charts and Graphs
Crash Data for Crash Analysis/ Warrant Study/ Agency Summaries

- **Query Crash Data**
  - Statewide
  - **By Agency**
  - By Project Site
  - By Route / Intersection

- **Statistical Charts / Tables**
  - **By Agency (Dashboards)**
  - By Route / Intersection

- **Crash Location Maps/Aerial Maps**
  - **By Agency**
  - By Project Site
  - By Route / Intersection
Reports

✔ Crash Reports
  - Data Export
  - Injury Severity Summary
  - Collision Summary
  - First Harmful Event Summary
  - Incident Level Detail
  - Standard Detail Report
  - Site Summary Graphs
This report provides crash data table (INCIDENT, UNIT and PERSON) with all the crash fields.
This report only provides **crash summary** for the collision manner grouped by the year.

<table>
<thead>
<tr>
<th>Incident County Name</th>
<th>Incident Year</th>
<th>Incident Collision Manner Desc</th>
<th>Incident Count</th>
<th>Incident Total Injuries</th>
<th>Incident Total Fatalities</th>
<th>Incident Total Units</th>
<th>Incident Total Persons</th>
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<td>24</td>
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<td>50</td>
<td>63</td>
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<td>Sideswipe Same Direction</td>
<td>22</td>
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<td>0</td>
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<td>42</td>
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<td>0</td>
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<td>2</td>
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</tbody>
</table>
Visualization Report

Collision Manner

Collision Manner Totals

- Single Vehicle: 102
- Rear End: 28
- Sideswipe Same Direction: 28
- Other: 10
- Angle (Front To Side)/(Other Than Left Turn): 1
- Head On: 1

Top Fatal Collision Manners

- Total Incidents: 168

Collision Manner: January 1, 2014 - December 31, 2018

- County: [Redacted]
- City: [Redacted]
- Engineering District: [Redacted]
- Road: Interstate 10 (88)
- Crossing Features: MOIS M003
- Spatial Region: [Redacted]
- Flags: [Redacted]

Urban vs Rural

Flag Involvement

- Single Vehicle
- Rear End
- Sideswipe Same Direction
- Other
- Angle (Front To Side)/(Other Than Left Turn)
- Head On

Analysis of Collision Manners:

- Single Vehicle: 102 incidents
- Rear End: 28 incidents
- Sideswipe Same Direction: 28 incidents
- Other: 10 incidents
- Angle (Front To Side)/(Other Than Left Turn): 1 incident
- Head On: 1 incident

Flag involvement analysis shows:

- Single Vehicle
- Rear End
- Sideswipe Same Direction
- Other
- Angle (Front To Side)/(Other Than Left Turn)
- Head On

Report Generated On: 4/15/2019 3:00:28 PM
This report only provides the crash summary for the first harmful event grouped by the year.
This report provides the crash summary for the injury severity grouped by the year.
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 TIM fields.

<table>
<thead>
<tr>
<th>Incident ID</th>
<th>Incident Time/Date</th>
<th>Incident On Road</th>
<th>Incident Crossing Feature</th>
<th>Incident Offset</th>
<th>Incident Injury Severity Description</th>
<th>Incident First Harmful Description</th>
<th>Incident Collision Manner Description</th>
<th>Incident Weather Description</th>
<th>Incident Junction Relation Description</th>
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<tbody>
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<td>3144621</td>
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<td>REAR END</td>
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</tbody>
</table>
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, and body style.

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

- 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 of Year
- 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)
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
**Location By Agency**

### Location

<table>
<thead>
<tr>
<th>Category</th>
<th>Options</th>
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<tbody>
<tr>
<td>Advanced Map Search</td>
<td>Open Map</td>
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<td>County</td>
<td>Enter a county...</td>
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<tr>
<td>City</td>
<td>[List of Cities]</td>
</tr>
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</table>
User has to check that there is no conflict between his selection. At this time program cannot warn users with messages.
User has to check that there is no conflict between his selection. At this time program cannot warn users with messages.
User has to check that there is no conflict between his selection. At this time program cannot warn users with messages.
User has to check that there is no conflict between his selection. At this time program cannot warn users with messages.
User has to check that there is no conflict between his selection. At this time program cannot warn users with messages.
Default From Offset - Intersection is 150 feet offset.

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

*2/15/2019 11:58:31 AM*
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