

ACIS – Arizona Crash Information System

Training Video 3

ADOT

Crash Analysis using ACIS

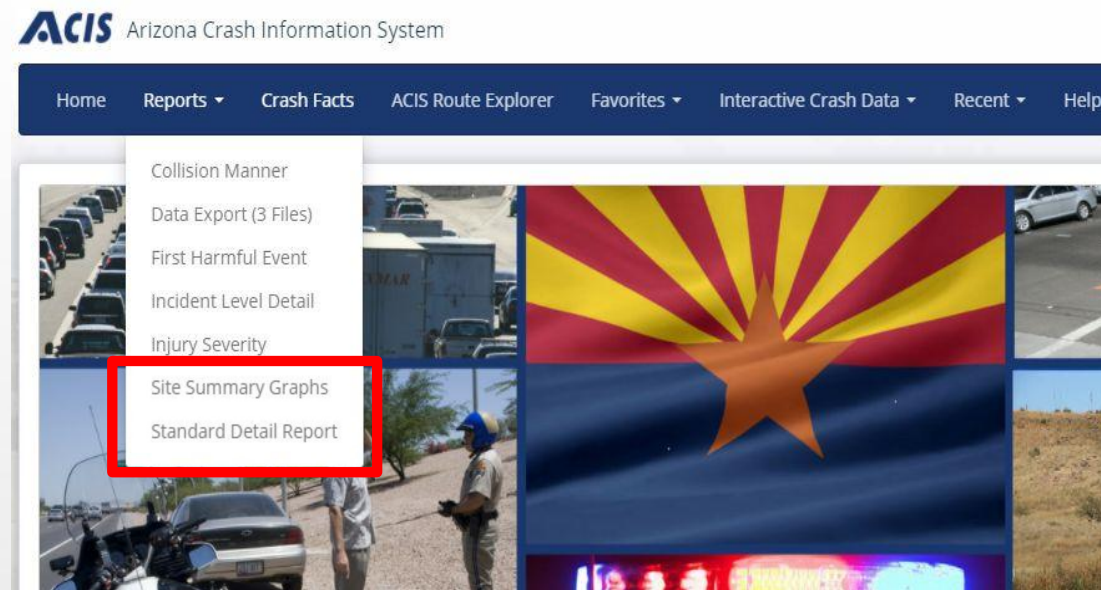


ADOT Traffic Safety Group

Created on February 4, 2021

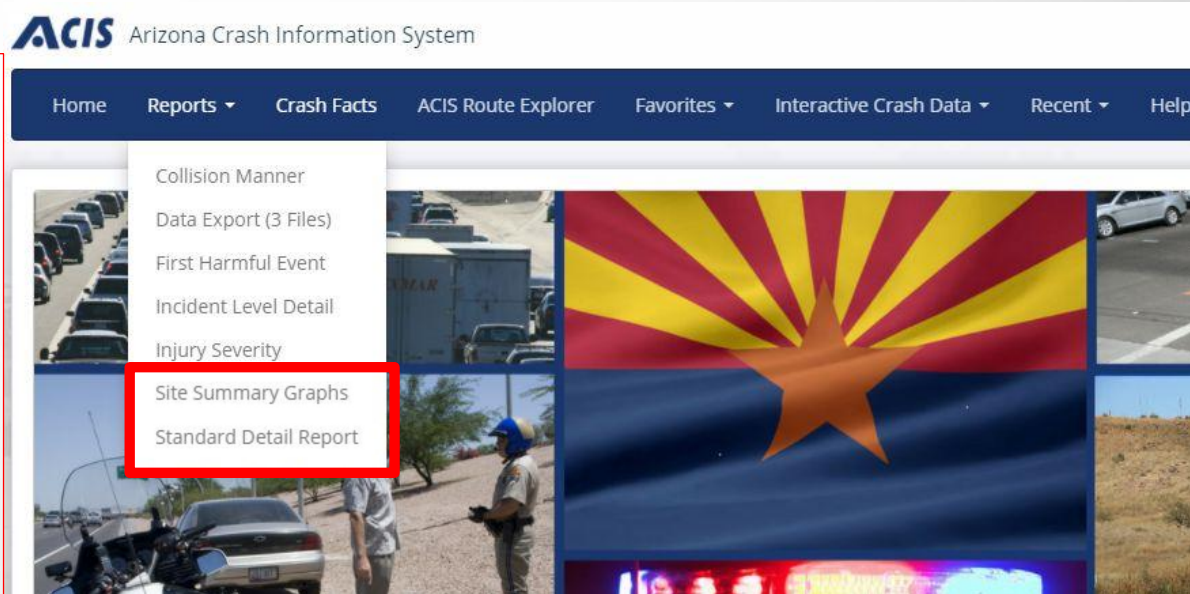
ARIZONA DEPARTMENT OF TRANSPORTATION

- **ACIS can be used to download crash data for Crash Analysis / Warrant Study / Agency Summaries**
- **The Standard Detail Report are the most commonly used report for this type of analysis.**
- **This training will show how to download data and best practices on saving the data / links and using the data for analyzing the data.**



The Standard Detailed Report can be used for crash data with the following parameters:

- **CRASH PERIOD**
- **INCIDENT FLAGS**
- **LOCATION**
 - **Spatial region**
 - City
 - County
 - COG/MPO
 - Tribal Area
 - ADOT district
 - **By specific route**
 - Advanced map search (draw a box or rectangle around a location)
 - Milepost segment for a route (both directions can be selected if the route is divided)
 - Local road segment
 - Intersection (150 feet buffer is the default but any buffer can be used based on what is entered by the user)



For a specific route query, certain parameters such as incident flags or spatial region do not need to be selected, the route segment or intersection and the crash period are the most common parameters used

- The first step when running the query is to **enter the crash period**, it is recommended that the user does not leave this blank
- The most common crash period used is the **last 5 years of complete data** available (example: if crash data is complete through June 2020 then the most current 5 year period will be 7/1/2015 to 6/30/2020)
- The ACIS site will show the crash completion date, this is updated every 3 months
- Options are available to select the prior 5 years or 3 years, please note that is for calendar years only and may not reflect the most current 5 year period of complete data

Incident Date (Crash Data complete through June 2019)*

mm/dd/yyyy - mm/dd/yyyy

01/22/2020 01/22/2020

< Jan 2020 > < Feb 2020 >

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

Current Year
 Prior Year
 Prior 3 Years
 Prior 5 Years
 Current Month
 Prior Month

Apply Clear

City

Enter a City...

- The incident flags can be entered next. This is optional when using the standard detailed report
- The user should not enter any flags if they want all the data for a given location

Standard Detail Report

General

Incident Date (Crash data is complete through June 2020) ?

mm/dd/yyyy - mm/dd/yyyy

Incident Flags ?

Select one or more Incident Flags...

- The location should be entered next. The user can enter the route and crossing feature manually or use the advanced map search
- **Please do NOT use the advanced map search and the manual route search in the same query as this will create a potential conflict and no data will be found**
- The advanced map search is recommended for intersections or traffic interchanges only and not segments
- Click on the **Open Map** link to use this feature

Location

Advanced Map Search

Open Map

?

The example here shows an easy way to query data for an urban freeway interchange

Location

Advanced Map Search

Open Map

County

Enter a county...

City

Enter a city...

Engineering District

Select an Option

Please note that some filtering and review of the data will be necessary after using the map search, in this example some crashes on the mainline may be pulled in the query but these crashes may not be needed in the analysis of the data for the traffic interchange

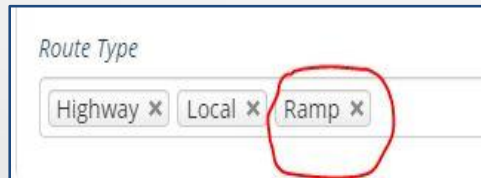


Advanced Map Search

Open Map

-111.64019775390469 35.287927067983745, -111.5056152343735 35.287927067983745, -111.5056152343735 35.1779983316745, -111.64019775390469 35.1779983316745

- The **spatial regions** such as County, City, COG/MPO, Tribal Area, ADOT District should be selected only **for querying agency data**.
- **To query Route specific data**, the spatial regions such as County, City, COG/MPO, Tribal Area, ADOT District are optional and do not need to be entered when using the **ROUTE** data field. **Entering these fields may restrict your query or cause a potential conflict and no data may be found**
- The **Route Type** field is used for the type of road that is entered, highway or local or ramp
- To search for ramps the user must manually add ramp to the *Route Type* data field.



Route Type

Highway x Local x Ramp x

- In the **Route** data field, type the route name and select from the drop down list



Route

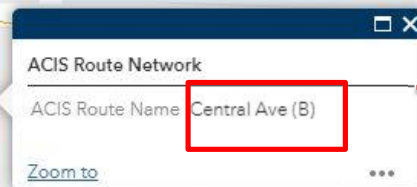
interstate 10 |

- Interstate 10 (EB)
- Interstate 10 (WB)
- Interstate 10 EB - COCHISE - BENSON
- Interstate 10 Exit 1 A-Ramp (EB) - LA PAZ
- Interstate 10 Exit 1 C-Ramp (WB) - LA PAZ
- Interstate 10 Exit 1 Crossing with DAZZ...

- If the user can't identify the route that is needed based on the drop down selections available in the **Route** field, they can use the ACIS route explorer



- After clicking on the route explorer link, the user can zoom into the location and click on the route to show the name that is used in ACIS. In the example below Central Ave in Phoenix was identified as Central Ave (B). This is the route name that should be used in the **Route** field in ACIS Query form.



Route

Central Ave (B) - MARICOPA - PHOENIX

- After the route is selected, the user can select **Include Both Directions** for routes that are divided

Route

Interstate 40 (WB)

Include Both Directions?

Yes

- To enter a MilePost (MP) segment for a state highway, make sure to enter the offset (if needed) in feet and not miles. In this example, the MP range for the route was entered as 40.5 to 46.8

Route

Interstate 40 (EB)

Include Both Directions?

Yes

From Crossing Feature

M040

Offset for 'From' Crossing Feature (in feet)

2,640

To Crossing Feature (optional)


M046

Offset for 'To' Crossing Feature (feet)

4,224

→ To query data for a local road segment, enter the route names and the buffer around the beginning and end of the segment

- In this example, all crashes on Central Ave from Thomas to Indian School will be pulled, for crashes at the Thomas intersection the buffer is 300 feet and the Indian School intersection buffer is 500 feet



Route
Central Ave (B) - MARICOPA - PHOENIX
Include Both Directions?
Yes
From Crossing Feature
Thomas Rd
Offset for 'From' Crossing Feature (in feet)
300
To Crossing Feature (optional)
Indian School Rd
Offset for 'To' Crossing Feature (feet)
500

- **To query Intersection Data**, enter the intersecting road in the “From Crossing Feature” field and do NOT enter any route in the field. When the “To Crossing Feature” is left blank the query automatically becomes an intersection query.
- The default buffer is 150 feet for an intersection if no value is entered in the offset for “From Crossing Feature”
- The user can enter any value here (in feet) for the buffer they want to use, for example, if a roundabout location is queried the buffer may need to be larger

- In this example, all crashes that occurred within 1000 feet of this intersection (in all directions) will be pulled in the query

To Crossing Feature (optional)

Leave this empty to search on an intersection

Route

US Highway 89 (NB)

Include Both Directions?

Yes

From Crossing Feature

E Marketplace Dr

Offset for 'From' Crossing Feature (in feet)

1,000

- **Output Report As** field select the **EXCEL** as output type and then clicking on the **View Report** button
- The most common output type is **Excel**, since this format will allow the user to view, filter, sort, and do additional analysis on the data by creating charts, graphs, etc. if necessary
- Other report outputs such as XML, CSV, and PDF are not recommended for data analysis unless the output is being imported into another software.

The screenshot shows a web form titled "Output". Below the title is a label "Output Report As*" followed by a dropdown menu. The dropdown menu is open, and the option "Excel" is selected and highlighted with a red circle. At the bottom right of the form, there are two buttons: "View Report" and "Add Favorite". The "View Report" button is also highlighted with a red circle.

- The standard detailed report has 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	Unit Event Sequence Desc1
Incident Microfilm	Unit Event Sequence Desc2
Incident Date & Time	Unit Event Sequence Desc3
Incident On Road	Unit Event Sequence Desc4
Incident Crossing Feature	Person Type Desc
Incident Offset	Person Safety Device Desc
Incident Injury Severity Description	Person Violation Desc1
Incident First Harmful Description	Person Physical Desc0
Incident Collision Manner Desc	Person Physical Desc1
Incident Light Condition Desc	Person Physical Desc2
Incident Weather Desc	Person Physical Desc3
Incident Intersection Type Desc	Person Physical Desc4
Incident Junction Relation Desc	Person Physical Desc5
Incident Traffic Way Type Desc	Person Physical Desc6
Incident File Number	Person Physical Desc97
Incident Officer Ncic	Person Physical Desc99
Unit Body Style Desc	Latitude
Unit Travel Direction Desc	Longitude
Unit Action Desc	X
Unit Road Condition Desc1	Y
Unit Surface Condition Desc1	Geocode On Road
Unit Env Condition Desc1	Geocode Crossing Feature
Unit Defect Desc1	Geocode Offset (miles)
Unit Number	

StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat Team

Clipboard Font Alignment Number Styles Cells Editing

Incident ID

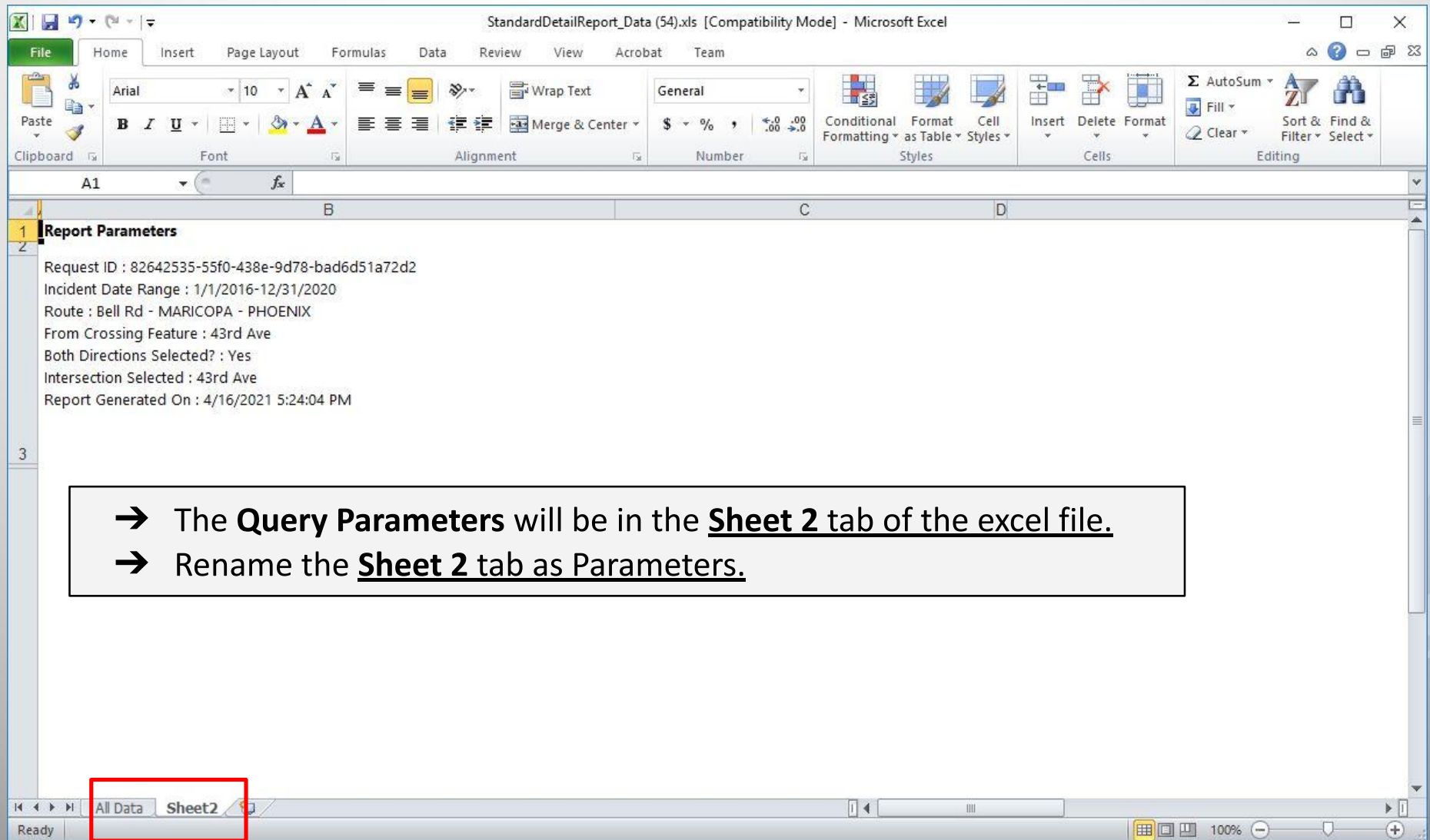
	A	B	C	D	E	F	G	H	I
	Incident ID	Incident Microfilm	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity Description	Incident First Harmful Description	Incident First Harmful Description
1	3042285		1/26/2016 3:14:00 PM	07 BELL RD	43rd Ave	-92	No Injury	Not Reported	Rear
2	3042285		1/26/2016 3:14:00 PM	07 BELL RD	43rd Ave	-92	No Injury	Not Reported	Rear
3	3056802		2/15/2016 12:57:00 PM	07 43RD AVE	Bell Rd	0	No Injury	Not Reported	Left T
4	3056802		2/15/2016 12:57:00 PM	07 43RD AVE	Bell Rd	0	No Injury	Not Reported	Left T
5	3070655		4/5/2016 4:26:00 PM	07 43RD AVE	Bell Rd	-143	No Injury	Not Reported	Head
6	3070655		4/5/2016 4:26:00 PM	07 43RD AVE	Bell Rd	-143	No Injury	Not Reported	Head
7	3075270		4/20/2016 6:25:00 AM	07 BELL RD	43rd Ave	0	No Injury	Motor Vehicle In Transport	Head
8	3075270		4/20/2016 6:25:00 AM	07 BELL RD	43rd Ave	0	No Injury	Motor Vehicle In Transport	Head
9	3075270		4/20/2016 6:25:00 AM	07 BELL RD	43rd Ave	0	No Injury	Motor Vehicle In Transport	Head
10	3075270		4/20/2016 6:25:00 AM	07 BELL RD	43rd Ave	0	No Injury	Motor Vehicle In Transport	Head
11	3075270		4/20/2016 6:25:00 AM	07 BELL RD	43rd Ave	0	No Injury	Motor Vehicle In Transport	Head

Sheet1 Sheet2

Ready

100%

- When the output is opened in Excel, the **Data** will be in the **Sheet 1 tab**. The data includes all incident, unit and person table fields.
- Rename the **Sheet 1** tab as **All Data**.



The screenshot shows a Microsoft Excel window titled "StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel". The ribbon includes File, Home, Insert, Page Layout, Formulas, Data, Review, View, Acrobat, and Team. The Home ribbon is active, showing Font, Alignment, Number, Styles, Cells, and Editing groups. The worksheet is named "Sheet2" and contains the following text:

Report Parameters

Request ID : 82642535-55f0-438e-9d78-bad6d51a72d2
Incident Date Range : 1/1/2016-12/31/2020
Route : Bell Rd - MARICOPA - PHOENIX
From Crossing Feature : 43rd Ave
Both Directions Selected? : Yes
Intersection Selected : 43rd Ave
Report Generated On : 4/16/2021 5:24:04 PM

At the bottom of the window, the "All Data" and "Sheet2" tabs are visible. The "Sheet2" tab is highlighted with a red box.

- The **Query Parameters** will be in the Sheet 2 tab of the excel file.
- Rename the Sheet 2 tab as Parameters.

StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat Team

Clipboard Font Alignment Number Styles Cells Editing

Incident Microfilm

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
	Incident ID	Unit Action Desc	Unit Road Condition Desc1	Unit Surface Condition Desc1	Unit Env Condition Desc1	Unit Defect Desc1	Unit Number	Unit Event Sequence Desc1	Unit Event Sequence Desc2	Unit Event Sequence Desc3	Unit Event Sequence Desc4	Person Type Desc	Person Desc
1	3042285	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
2	3042285	Stopped In Trafficway	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	2					Driver	Sho Lap
3	3049957	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport				Driver	Air Dejer
4	3049957	Stopped In	No Contributing	Dry	No Contributing	No Contributing	2	Motor Vehicle In				Driver	Sho Lap

In this example Incident ID 3042285 is a 2 unit involved crash

→ The Standard Detailed Report output has multiple rows for each crash depending on how many units are involved

→ For example, if a crash has 7 units, then there will be seven rows in the excel spreadsheet for this particular crash

→ The number of rows in the output report should not be interpreted as the number of crashes for the location. It represents the number of units that are involved in all the crashes that were obtained in the query.

Ready | All Data | Parameters | Average: 21653.47504 | Count: 3927 | Sum: 9960598.518 | 100%

- To obtain the number of crashes, the USER should filter on **Unit Number** for value 1 in the excel spreadsheet
- The **Unit Number** is located in column X
- Use the filter in excel to select **Unit Number = 1** only
- After the filter is selected, copy all data into a new tab in the excel spreadsheet and rename the tab as **Unit 1**
- The **Unit 1** tab in the excel spreadsheet is an easy way to find the number of crashes and also filter on other incident level criteria such as severity, year, crash type, light condition, first harmful event, etc. as need to study the crash.

X	
Unit Number	
	1
	2
	1
	2
	1
	2

StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
	Incident ID	Unit Action Desc	Unit Road Condition Desc1	Unit Surface Condition Desc1	Unit Env Condition Desc1	Unit Defect Desc1	Unit Number	Unit Event Sequence Desc1	Unit Event Sequence Desc2	Unit Event Sequence Desc3	Unit Event Sequence Desc4	Person Type Desc	Person Detail
1	3042285	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances							Driver	Showing Details
2	3042285	Stopped In Trafficway	No Contributing Circumstances	Dry	No Contributing Circumstances							Driver	Showing Details
3	3049957	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances							Driver	Air Deployment
4	3049957	Stopped In Trafficway	No Contributing Circumstances	Dry	No Contributing Circumstances			Motor Vehicle In Transport				Driver	Showing Details
5	3056802	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances			Motor Vehicle In Transport				Driver	Showing Details
6	3056802	Making Left Turn	No Contributing Circumstances	Dry	No Contributing Circumstances							Driver	Showing Details
7	3070655	Leaving Parking Position	No Contributing Circumstances	Dry	No Contributing Circumstances							Driver	Showing Details
8	3070655	Walking Against Traffic	No Contributing Circumstances	Dry	No Contributing Circumstances							Pedestrian	Not Showing Details
9	3075270	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances		1 Motor Vehicle In Transport	Motor Vehicle In Transport	Traffic Signal Support		Driver	Showing Details
10	3075270	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances		2 Motor Vehicle In Transport				Driver	Showing Details
11	3075270	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances		3 Motor Vehicle In Transport				Driver	Showing Details

StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel

File

Home

Insert

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Team

From Access

From Web

From Text

From Other Sources

Get External Data

Existing Connections

Refresh All

Connections

Properties

Edit Links

Sort & Filter

Sort

Filter

Clear

Reapply

Advanced

Text to Columns

Remove Duplicates

Data Validation

Consolidate

What-If Analysis

Group

Ungroup

Subtotal

Show Detail

Hide Detail

Outline

A1

fx

Incident ID

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC		
			ction sc	Unit Road Condition Desc1	Unit Surface Condition Desc1	Unit Env Condition Desc1	Unit Defect Desc1	Unit Number	Unit Event Sequence Desc1	Unit Event Sequence Desc2	Unit Event Sequence Desc3	Unit Event Sequence Desc4	Person Type Desc	Pe D
			raight	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
			raight	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport				Driver	Air De der
			raight	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
			Parking	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
			raight	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport	Motor Vehicle In Transport	Traffic Signal Support		Driver	Sho Lap
			Left Turn	No Contributing Circumstances	Slush	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
			raight	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Air De der
15			Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
	3088087		Slowing In Trafficway	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
17														
	3091200		Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
19														
	3095776		Changing Lanes	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1					Driver	Sho Lap
21														
	3096968		Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Traffic Signal				Driver	Sho Lap

All Data

Parameters

Ready 107 of 230 records found

Average: 557939.1821 Count: 3867 Sum: 537295432.4

100%

[illegible]

StandardDetailReport_Data (54).xls [Compatibility Mode] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat Team

From Access From Web From Text From Other Sources Existing Connections Refresh All Edit Links Connections Sort & Filter Filter Clear Reapply Advanced Text to Columns Remove Duplicates Data Validation Consolidate What-If Analysis Group Ungroup Subtotal Outline

AC1	Person Type Desc	A	B	C	D	E	F	G	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	Pe
		Incident ID	Incident Microfilm	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity	Unit Env Condition Desc	Unit Defect Desc	Unit Number	Unit Event Sequence Desc	Unit Event Sequence Desc	Unit Event Sequence Desc	Unit Event Sequence Desc	Person Type Desc	Person Safety Device	Person Violation Desc	Person Physical Desc	Pe
1		3042285		07/07/2014	BELL RD	43rd Ave	-92	No Injury	No Contributing	No Contributing	1						Shoulder And Lap Belt	Unknown	0 - No Apparent Influence	
2		3049957		07/07/2014	BELL RD	43rd Ave	0	Possible Injury	No Contributing	No Contributing	1	Motor Vehicle In Transport					Air Bag Deployed/Shoulder-Shoulder And Lap Belt	No Improper Action Speed Too Fast	0 - No Apparent Influence	
3		3056802		07/07/2014	43RD AVE	Bell Rd	0	No Injury	No Contributing	No Contributing	1						Shoulder And Lap Belt	Speed Too Fast	0 - No Apparent Influence	
4		3070655		07/07/2014	43RD AVE	Bell Rd	-143	No Injury	No Contributing	No Contributing	1						Shoulder And Lap Belt	No Improper Action Speed Too Fast	0 - No Apparent Influence	
5		3075270		07/07/2014	BELL RD	43rd Ave	0	No Injury	No Contributing	No Contributing	1	Motor Vehicle In Transport	Motor Vehicle In Transport				Shoulder And Lap Belt	Speed Too Fast For	0 - No Apparent Influence	
6		3078591		07/07/2014	43RD AVE	Bell Rd	0	No Injury	No Contributing	No Contributing	1						Shoulder And Lap Belt	Speed Too Fast	0 - No Apparent Influence	
7		3078667		07/07/2014	43RD AVE	Bell Rd	0	Possible Injury	No Contributing	No Contributing	1						Air Bag Deployed/Shoulder-Shoulder And Lap Belt	Speed Too Fast For	0 - No Apparent Influence	
8		3088087		07/07/2014	43RD AVE	Bell Rd	94	No Injury	No Contributing	No Contributing	1						Driver	Speed Too Fast	0 - No Apparent Influence	

Sort A to Z Sort Z to A Sort by Color Clear Filter From "Person Type Desc" Filter by Color Text Filters Search (Select All) Driver Pedalcyclist Pedestrian OK Cancel

→ A **UNIT** is defined as any driver, pedestrian, or bicyclist, this is shown in Column AC (person type desc)

→ **Passenger** information is not shown in the Standard Detailed Report output

Ready All Data Parameters Unit 1 100%

Generate Crash Map

→ **Output Report As** field select the **MAP or Aerial Map** as output type and then clicking on the **View Report** button

The screenshot shows a web form for generating a crash map. The 'Output Report As' field is highlighted with a blue border. Below this field, a list of report formats is displayed: Report, PDF, Excel, CSV, Map, XML, and Aerial Map. The 'Map' option is currently selected and highlighted in blue. The 'Report' option is also visible in the dropdown menu.

Yes

From Crossing Feature

43rd Ave

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*

Report

Select a format for the report...

Report

PDF

Excel

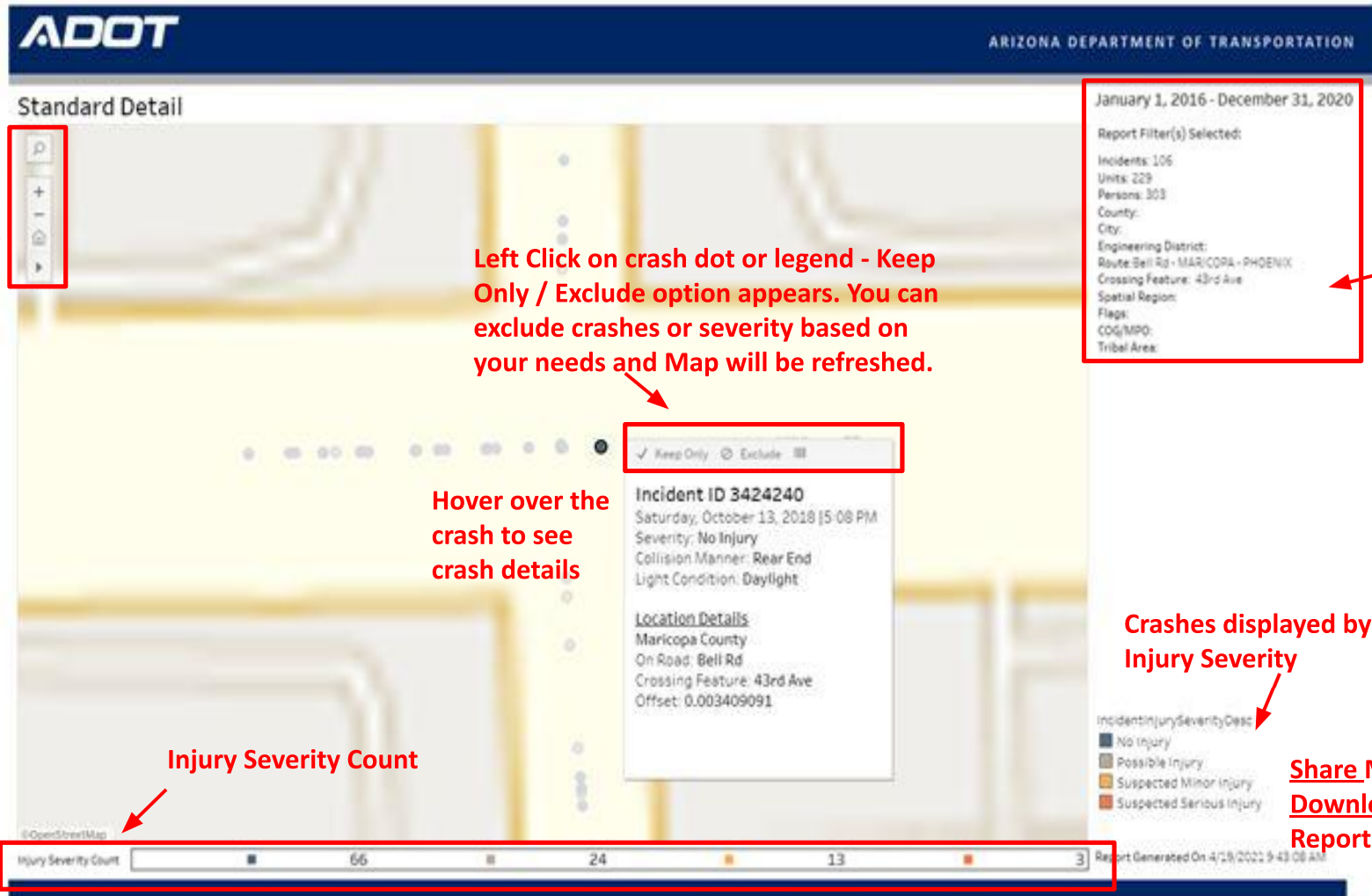
CSV

Map

XML

Aerial Map





Zoom in/out in the map / Select crashes / Move around in the map

Left Click on crash dot or legend - Keep Only / Exclude option appears. You can exclude crashes or severity based on your needs and Map will be refreshed.

Query Parameters

Check the Incident/Unit /Person #'s match the excel data

Hover over the crash to see crash details

Crashes displayed by Injury Severity

Share Map Report link, Download the Map Report / Full Screen

Undo, Redo, Refresh, Revert changes (KEEP ONLY/ EXCLUDE) made in Tableau Report

View Original Alerts Subscribe Share Download

Undo Redo Revert Refresh Pause

- ➔ Click on Share button on the bottom right corner. Copy the link and paste in the excel data sheet for future reference. The link will open the same map report. The link works only in ADOT network.

The screenshot displays the ADOT ACIS Crash Analysis web application. The main interface shows a map titled "Standard Detail" for the period "January 1, 2016 - December 31, 2020". A "Share View" dialog box is open in the center, highlighting the "Share using a link" option. The dialog box contains the following text:

Share View

☒ Standard Detail

Only people with permission can see this view.

Share with people

Enter a username.

Share using a link

`count=n&showVizHome=n&origin=viz_share_link&embed=y` [Copy Link](#)

[Copy Embed Code](#)

On the right side of the interface, there is a "Report Filter(s) Selected:" section with the following details:

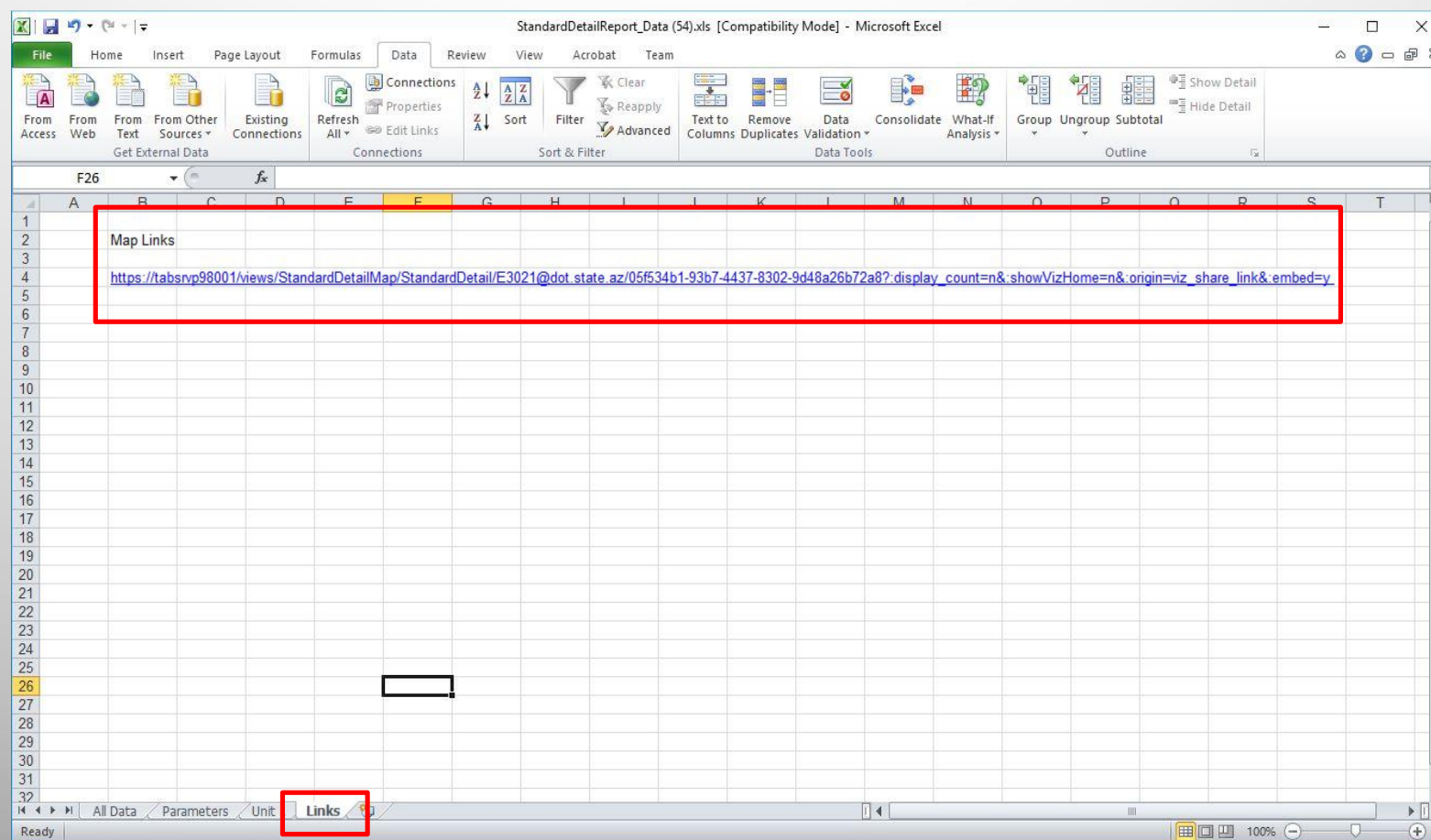
- Incidents: 106
- Units: 225
- Persons: 303
- County:
- City:
- Engineering District:
- Route: Bell Rd - MARICOPA - PHOENIX
- Crossing Feature: 43rd Ave
- Spatial Region:
- Flags:
- COG/MPO:
- Tribal Area:

At the bottom of the interface, there is a legend for "IncidentInjurySeverityDesc" with the following categories:

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

The bottom of the screen shows a navigation bar with buttons: "View: Original", "Alerts", "Subscribe", "Share", and "Download".

- Create a tab and name it Links
- Paste the copied map link path in the excel as shown below
- Save the excel file



→ Click on DOWNLOAD button on the bottom right corner. Create a the map report as PDF or image per your needs. Save this file in the same folder where you saved your excel crash data.

The screenshot displays the ADOT ACIS web application interface. The main map area shows a street view with several colored dots representing crash locations. A red box highlights a 'Download' modal window that is open, allowing the user to select a file format for the map report. The available formats are Image, Data, Crosstab, PDF, PowerPoint, and Tableau Workbook. The PDF option is currently selected. To the right of the map, there is a sidebar with report filters and statistics. At the bottom right, another red box highlights the 'Download' button in the footer area.

ADOT ARIZONA DEPARTMENT OF TRANSPORTATION

Standard Detail

January 1, 2016 - December 31, 2020

Report Filter(s) Selected:

- Incidents: 106
- Units: 229
- Persons: 303
- County:
- City:
- Engineering District:
- Route: Bell Rd - MARICOPA - PHOENIX
- Crossing Feature: 43rd Ave
- Spatial Region:
- Flags:
- COG/MPO:
- Tribal Area:

IncidentInjurySeverityDesc

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

Injury Severity Count

Injury Severity	Count
No Injury	66
Possible Injury	24
Suspected Minor Injury	13
Suspected Serious Injury	3

Report Generated On 4/19/2021 9:43:08 AM

View: Original Alerts Subscribe Share Download

→ Click on DOWNLOAD button on the bottom right corner. Create a the map report as PDF or image per your needs. Save this file in the same folder where you saved your excel crash data.

The screenshot displays the ADOT ACIS web application interface. The main map area shows a street view with several crash data points represented by colored dots. A red box highlights a 'Download' modal window that is open, allowing the user to select a file format for download. The available options are: Image, Data, Crosstab, PDF, PowerPoint, and Tableau Workbook. The 'PDF' option is currently selected. To the right of the map, there is a sidebar with report filters and statistics. The filters include: Report Filter(s) Selected, Incidents: 106, Units: 229, Persons: 303, County: , City: , Engineering District: , Route: Bell Rd - MARICOPA - PHOENIX, Crossing Feature: 43rd Ave, Spatial Region: , Flags: , COG/MPO: , and Tribal Area: . Below the filters, there is a legend for 'IncidentInjurySeverityDesc' with four categories: No Injury (blue square), Possible Injury (grey square), Suspected Minor Injury (orange square), and Suspected Serious Injury (red square). At the bottom of the map area, there is a bar chart showing the 'Injury Severity Count' with values: 66 (No Injury), 24 (Possible Injury), 13 (Suspected Minor Injury), and 3 (Suspected Serious Injury). The report was generated on 4/19/2021 9:43:08 AM. At the bottom right of the application, there is a navigation bar with buttons for 'View: Original', 'Alerts', 'Subscribe', 'Share', and 'Download'. A red box highlights the 'Download' button in this bar.

Generate Crash Charts / Tables

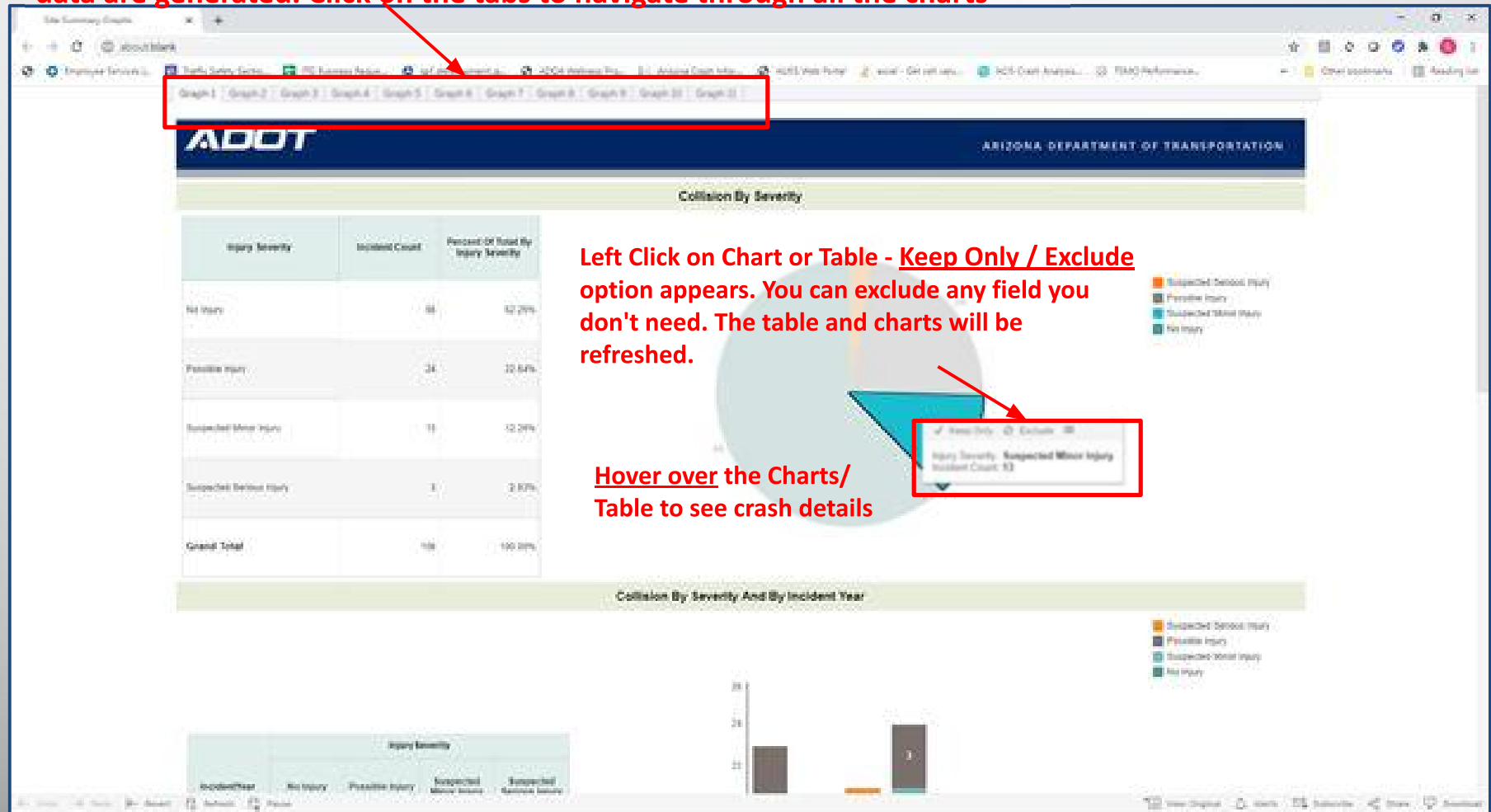
→ Select Site Summary Graphs ACIS Report



- ➔ Enter the query parameters. The parameters should be same as the Standard Detail Report you ran for the same project site.
- ➔ **Output Report As** field select the **Visualization** as output type and then clicking on the **View Report** button

The screenshot displays the ACIS query interface. At the top, there's a 'Route type' section with 'Highway' and 'Local' buttons. Below this is the 'Route*' field containing 'Bell Rd - MARICOPA - PHOENIX'. The 'Include Both Directions?' field is set to 'Yes'. The 'From Crossing Feature*' field is set to '43rd Ave'. There are input fields for 'Offset for 'From' Crossing Feature (in feet)' and 'Offset for 'To' Crossing Feature (feet)', both with placeholder text 'Enter an offset in feet...'. The 'To Crossing Feature (optional)' field is set to 'Leave this empty to search on an intersection'. The 'Output' section at the bottom has a field 'Output Report As' with a dropdown menu showing 'Visualization'. This field is highlighted with a red rectangle. At the bottom of the form are two buttons: 'View Report' and 'Add Favorite'.

11 Tabs of Graphs/ Charts summarizing the crashes (incident/unit/person) data are generated. Click on the tabs to navigate through all the charts

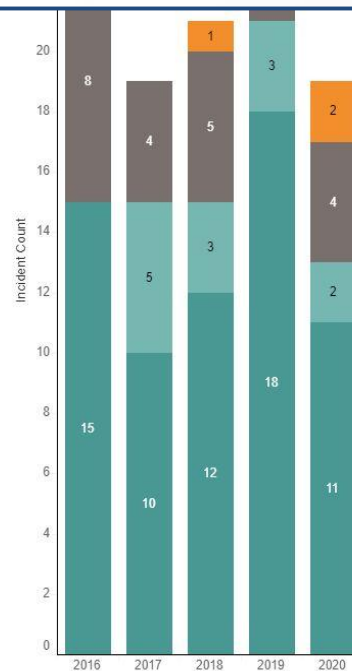


Left Click on Chart or Table - Keep Only / Exclude option appears. You can exclude any field you don't need. The table and charts will be refreshed.

Hover over the Charts/ Table to see crash details

Crash Analysis using ACIS

IncidentYear	No Injury	Possible Injury	Suspected Minor Injury	Suspected Serious Injury
2016	15	8		
2017	10	4	5	
2018	12	5	3	1
2019	18	3	3	
2020	11	4	2	2
Grand Total	66	24	13	3



Report Filter(s) Selected:
January 1, 2016 - December 31, 2020

Start Date : January 1, 2016
End Date : December 31, 2020
County : Null
City : Null
Route : Bell Rd - MARICOPA - PHOENIX
Crossing Feature : 43rd Ave - Null
Flags : Null
Engineering District: Null
COG/MPO: Null
Tribal Area: Null

Query Parameters

Report Summary

Total Incidents: 106
Total Units: 229
Total Persons: 303

Check the Incident/Unit/Person #'s match the excel data

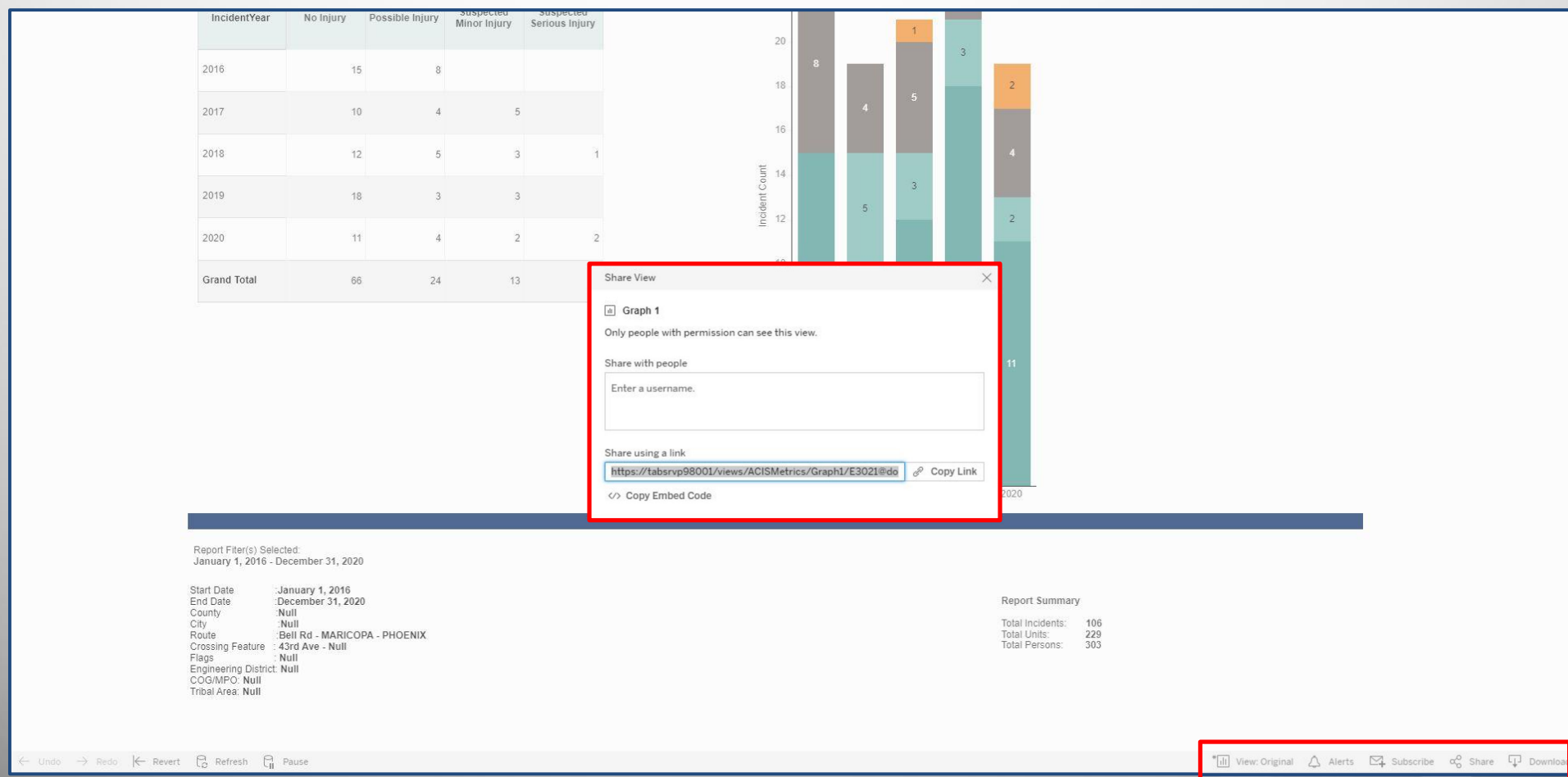
Share Map Report link, Download the Map Report / Full Screen

← Undo → Redo ↶ Revert ↻ Refresh ⏸ Pause

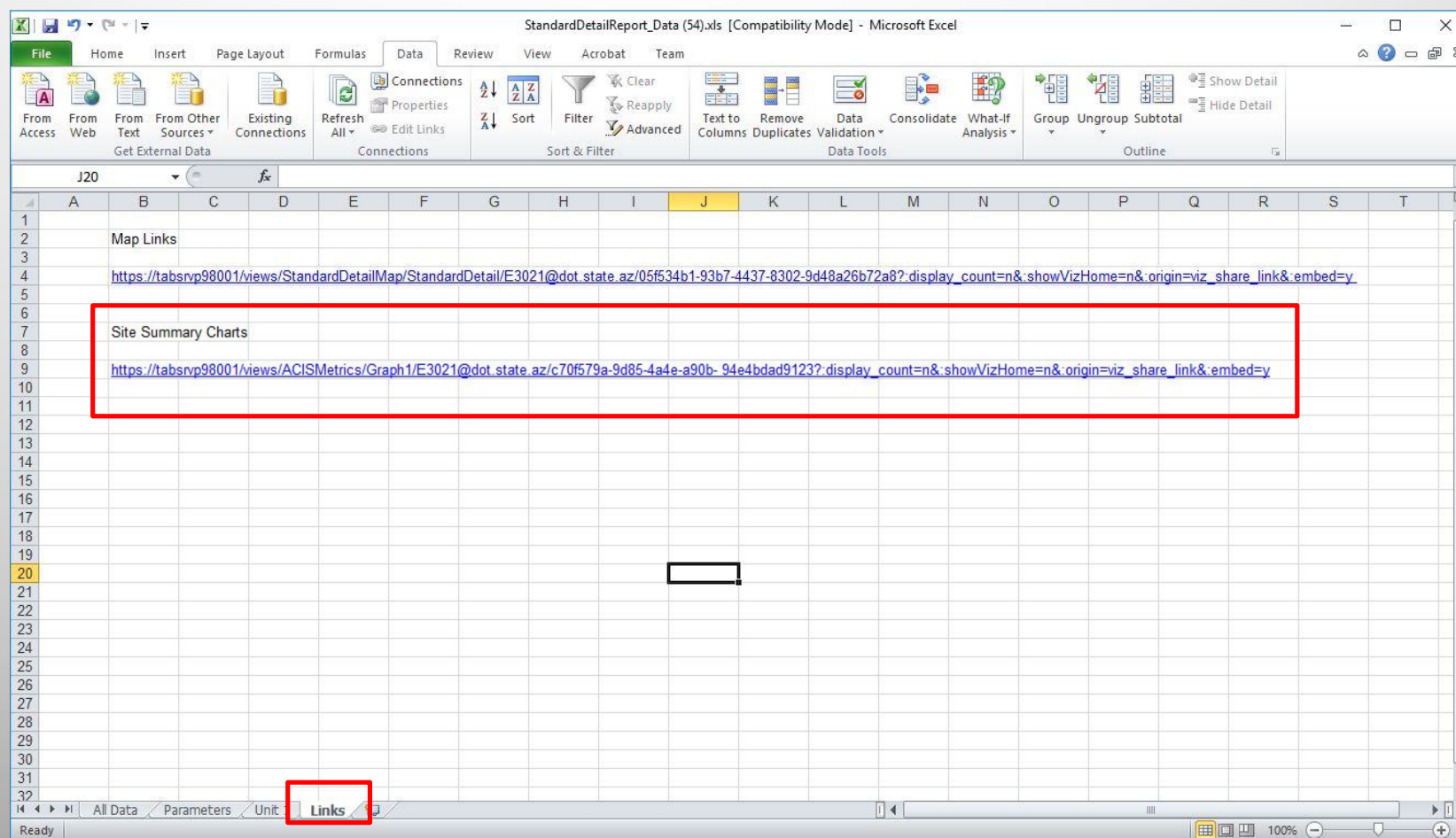
Undo, Redo, Refresh, Revert changes (KEEP ONLY/ EXCLUDE) made in Tableau Report

View: Original Alerts Subscribe Share Download

- ➔ Click on Share button on the bottom right corner. Copy the link and paste in the excel data sheet for future reference. The link will open the same Site Summary Graphs report. The link works only in ADOT network.



- In the Links tab of the excel data file PASTE the copied Site Summary Graphs link path in the excel as shown below
- Save the excel file



→ Click on **DOWNLOAD** button on the bottom right corner. **Create** a the map report as PDF or image per your needs. **Save** this file in the same folder where you saved your excel crash data.

IncidentYear	No Injury	Possible Injury	Suspected Minor Injury	Suspected Serious Injury
2016	15	8		
2017	10	4	5	
2018	12	5	3	1
2019	18	3	3	
2020	11	4	2	2
Grand Total	66	24	13	3



Download

Select your file format.

Report Filter(s) Selected:
January 1, 2016 - December 31, 2020

Start Date : January 1, 2016
End Date : December 31, 2020
County : Null
City : Null
Route : Bell Rd - MARICOPA - PHOENIX
Crossing Feature : 43rd Ave - Null
Flags : Null
Engineering District: Null
COG/MPO: Null
Tribal Area: Null

Report Summary

Total Incidents: 106
Total Units: 229
Total Persons: 303

- ➔ Select “Specific Sheets from this workbook” option in Include field.
- ➔ Click on **SELECT ALL**. This will select all the 11 tabs.
- ➔ **Create** a the map report as PDF or Image per your needs. **Save** this file in the same folder where you saved your excel crash data.

IncidentYear	No Injury	Possible Injury	Suspected Minor Injury	Suspected Serious Injury
2016	15	8		
2017	10	4	5	
2018	12	5	3	1
2019	18	3	3	
2020	11	4	2	2
Grand Total	66	24	13	3

Download PDF

Include

Specific sheets from this workbook

☒ Graph 1

☒ Graph 2

☒ Graph 3

☒ Graph 4

11 of 11 Select All Clear All

Scaling: Automatic

Paper Size: Letter Orientation: Portrait

Download

Report Filter(s) Selected:
January 1, 2016 - December 31, 2020

Start Date : January 1, 2016
End Date : December 31, 2020
County : Null
City : Null
Route : Bell Rd - MARICOPA - PHOENIX
Crossing Feature : 43rd Ave - Null
Flags : Null
Engineering District: Null
COGIMPO: Null
Tribal Area: Null

Report Summary

Total Incidents: 106
Total Units: 229
Total Persons: 303

Best Practices in Downloading, Saving Crash Data from ACIS

- ➔ Following the above described steps will help the user to download crash data, crash location maps, summary charts / tables needed to understand the crash location, patterns and understand the safety concerns.
- ➔ Saving the files with Project Location name and Query date will help locate the files in future easily.
- ➔ Renaming the excel data Tabs. Creating new tabs, naming them and adding UNIT 1 data and links to Map and Site Summary Graphs will help retrieve the same reports without re-running the queries.
- ➔ CHECK the Query Parameters, Incident #, Unit # and Person # are same between Excel / Map and Site Summary Graph OUTPUTS.

Best Practices in Downloading, Saving Crash Data from ACIS

- If you are querying Crash Data for a BEFORE & AFTER study. Run the BEFORE query for the project site. Create FAVORITE by clicking the Favorite button at the bottom next to View Report button.

The screenshot displays the ACIS web interface. On the left, under the 'Output' tab, there is a section titled 'Output Report As*' with a dropdown menu currently set to 'Report'. At the bottom of the interface, there are two buttons: 'View Report' and 'Add Favorite'. The 'Add Favorite' button is highlighted with a red rectangular box. A modal dialog box titled 'Enter a new favorite' is open in the center-right of the screen. This dialog has a close button (X) in the top right corner, a text input field labeled 'Description' containing the text 'BELL Rd and 43rd Ave', and two buttons at the bottom: 'Cancel' and 'Save'.

Best Practices in Downloading, Saving Crash Data from ACIS **BEFORE AND AFTER ANALYSIS**

- When you are running AFTER query, go to Favorites and select on the project site.
- The query form will open with BEFORE saved query with all the parameters
- Change the CRASH PERIOD field to after period dates. Rerun the Standard Detail Report and Site Summary Queries.



Best Practices in Downloading, Saving Crash Data from ACIS

- ➔ Copy the web browser link for the BEFORE query Favorite saved.
- ➔ Paste in the Parameter Tab of the excel data for future use. This will help reduce Query Form errors if another user is querying the after data.
- ➔ Save the excel file

The screenshot illustrates the process of saving crash data from ACIS. On the left, the ACIS web interface shows the 'Standard Detail Report' page. A red box highlights the 'Copy' button in the context menu. On the right, an Excel spreadsheet titled 'StandardDetailReport_Data (54).xls' is open. The 'Parameters' tab is selected, and a red box highlights the 'ACIS Query - Link from Favorite' section, which contains the URL: <https://adotdw/ACIS/Home/Parameters?queryGuid=BDF4F71D-2ACB-4258-85A9-C864FBB4C2A8&reportId=70>. The Excel spreadsheet also shows the 'Parameters' tab selected in the bottom navigation bar.