Using the TxDOT Crash Query Tool to indentify intersection crashes for use in the Intersection Scoring Tool

Go to:

https://cris.dot.state.tx.us/public/Query/app/all-queries/query?txdotQueryId=101

or type:

https://bit.ly/txdotCrisQuery

in broswer (*Internet Explorer not supported*)

Identifying Intersection Crashes (TTI)

identifying the total of pedestrian, pedalcyclist and motor vehicle type crashes occurring in intersections

Select Query Type

What type of Query would you like to build?

- ○ I want to find all Crashes that meet a certain set of criteria
- ○ I want to find Units (ex. Vehicles, Bicycles) that were involved in crashes that meet a certain set of criteria
- ◉ I want to find Persons that were involved in crashes that meet a certain set of criteria

Select Crash Date and Time

When did the crashes occur that you would like to find?

- ○ Select crashes from a specific year
- ◉ Select Crashes from a range of years
- ○ Select Crashes from a specific date and time range

If needed, change Begin/End Years

Begin Year: 2018 × ▾

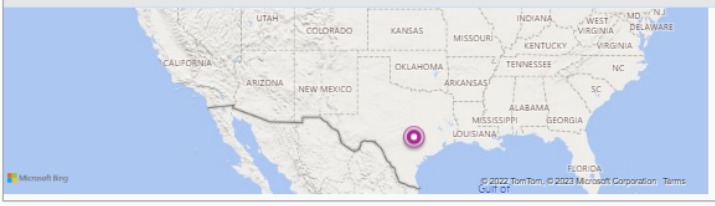
End Year: 2021 × ▾

Select Crash Location

When did the crash occur that you would like to find?

- ○ Define search by entering **one or more** of the most common location fields
- ○ Define more complex search area using Filter Builder
- ◉ Define search area using interactive map
- ○ Search All of Texas

Currently Selected Search Area — Edit Search Area



Defined Search Coordinates

Latitude: 30.257, Longitude -97.747

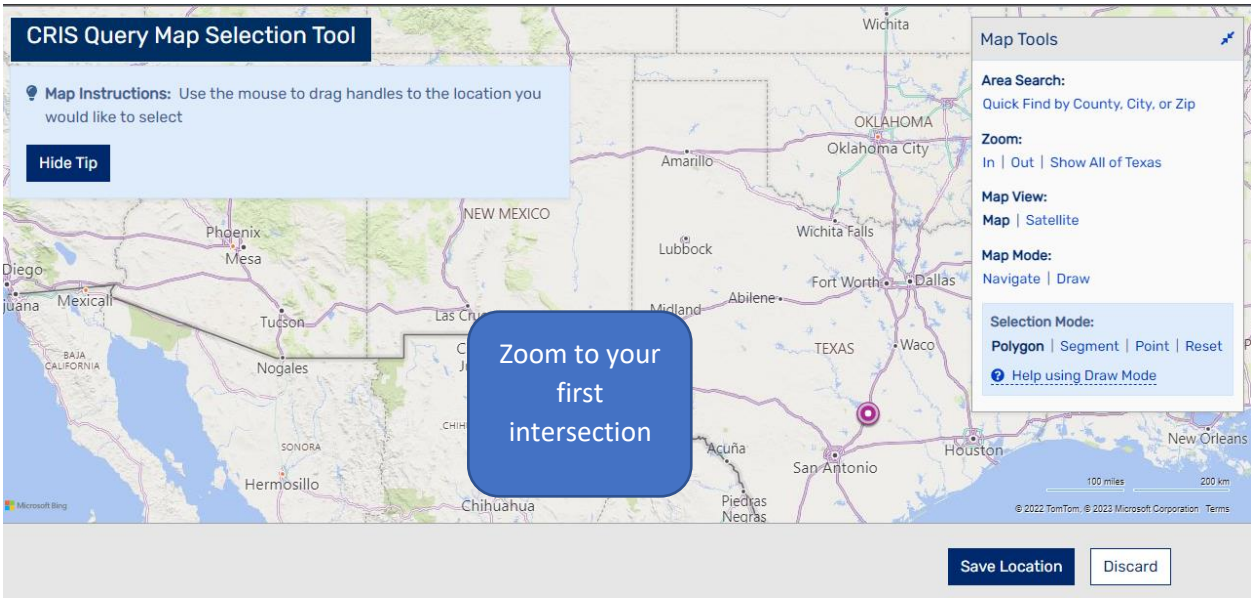
Buffer: 250 ft

Click "Edit Search Area"

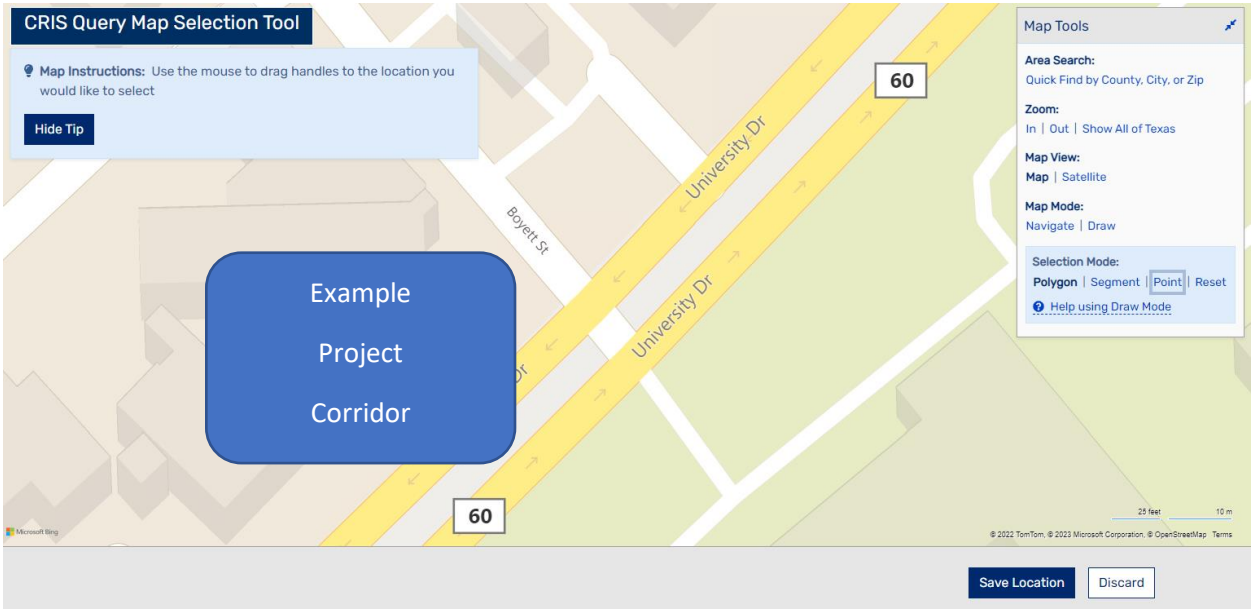
Filters Applied to Query

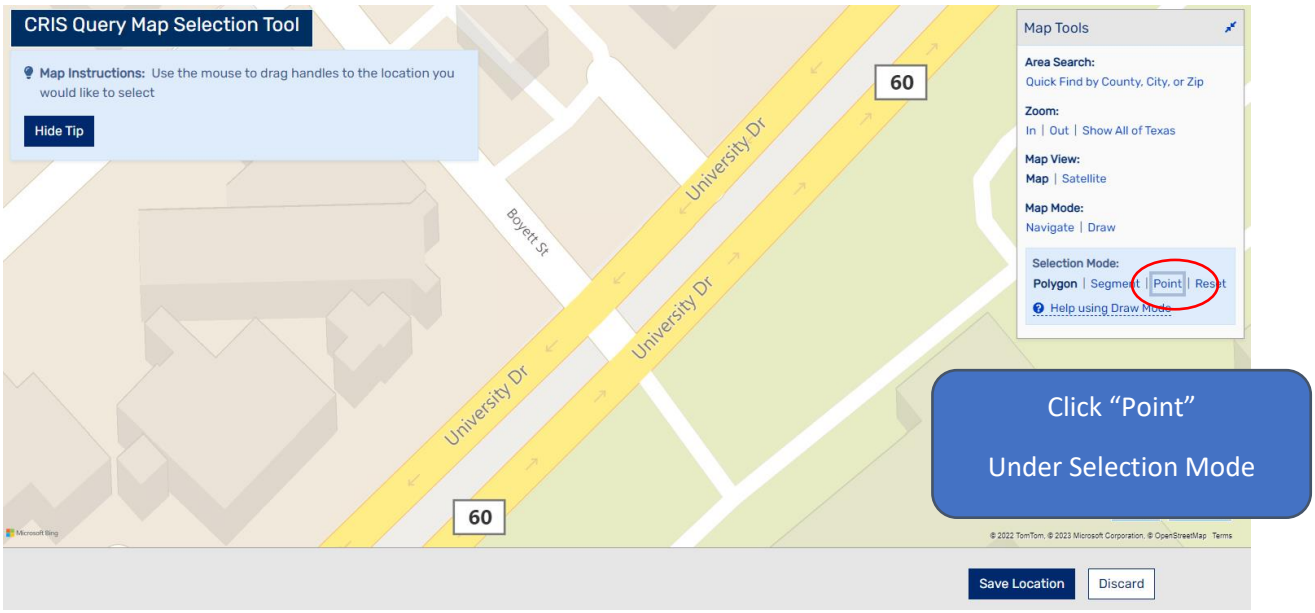
Crash Year Is In 2018 or 2019 or 2020 or 2021
TxDOT Reportable Flag Is True

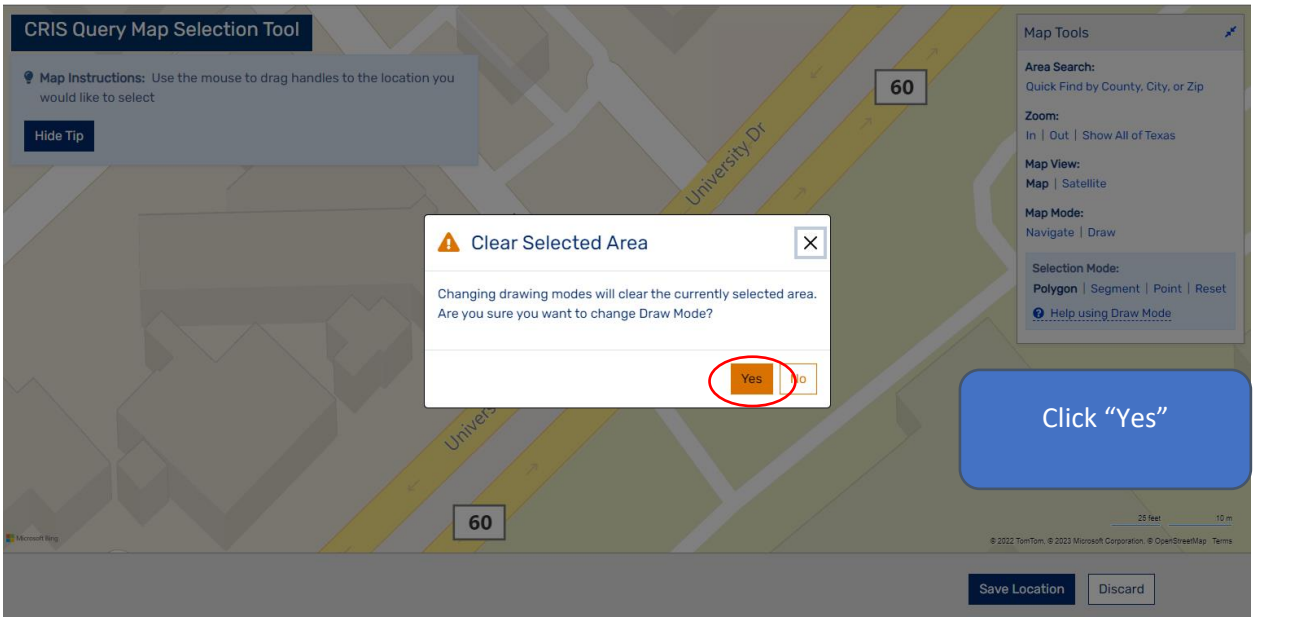
View Results | Save

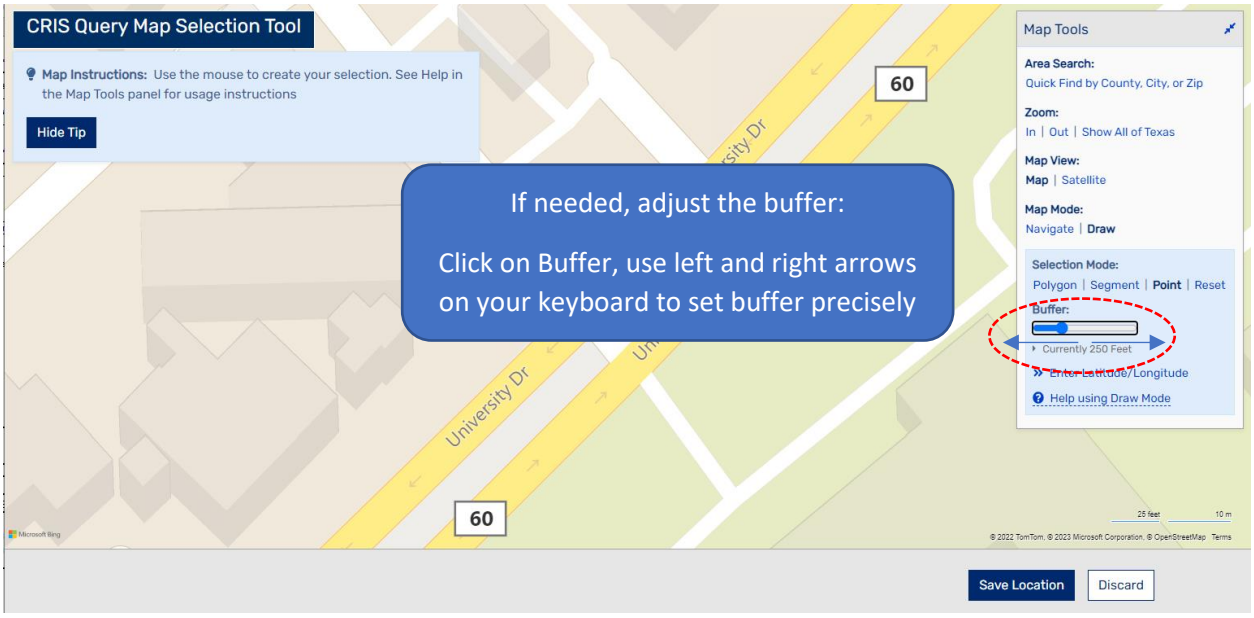


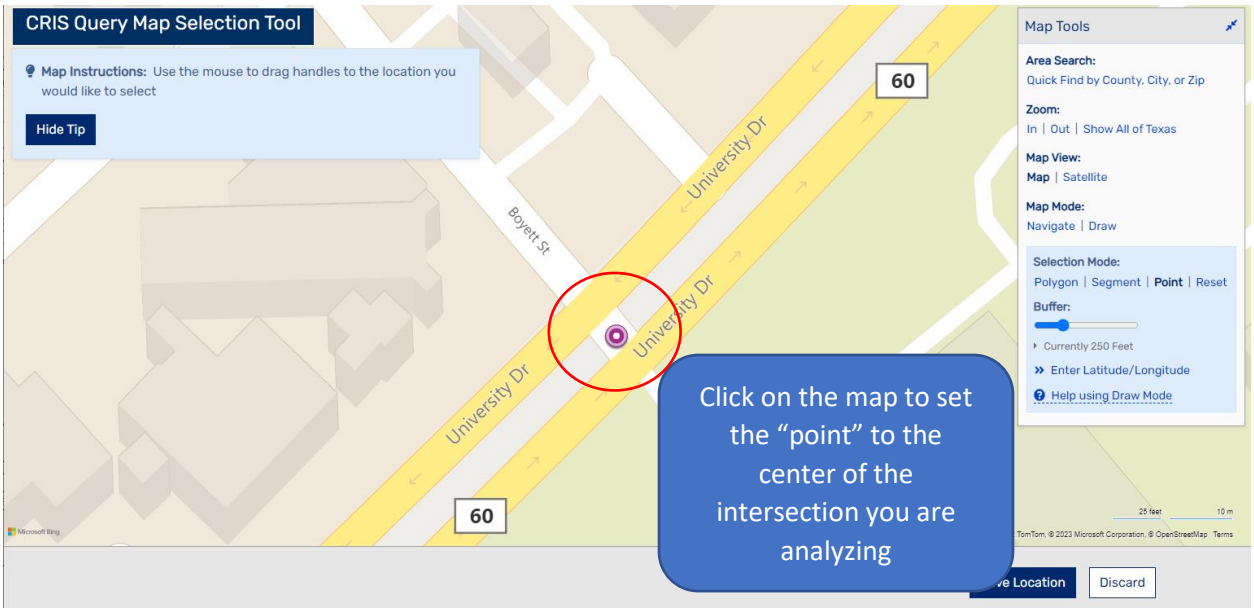
ZOOM TO LOCATION

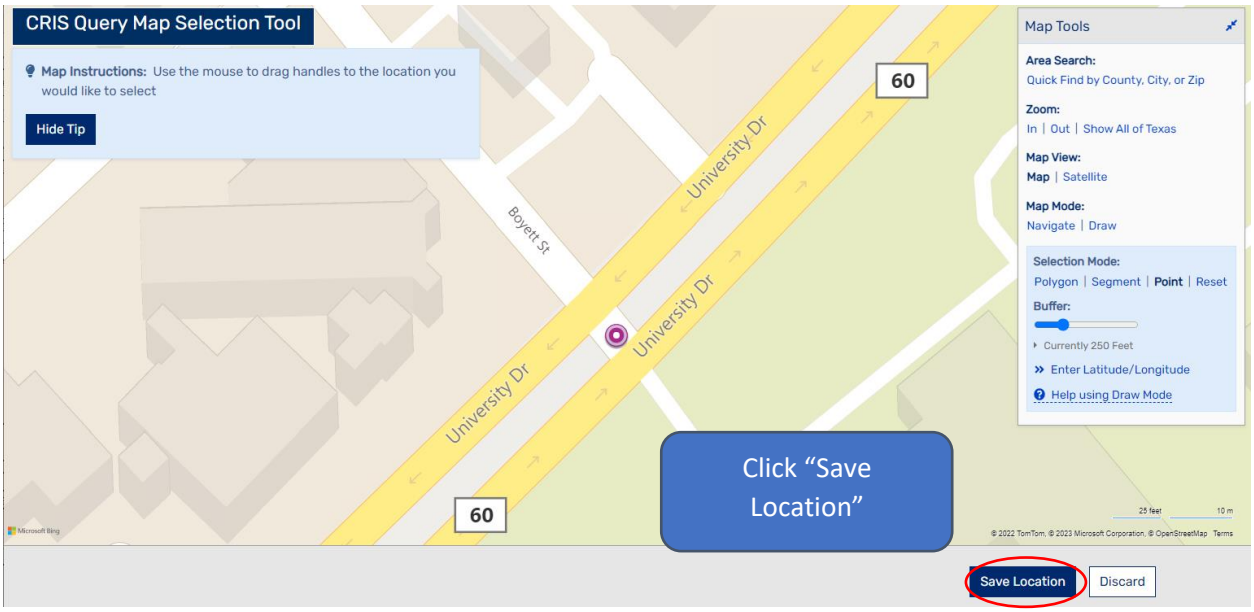



CRIS Query Map Selection Tool
Map Instructions: Use the mouse to drag handles to the location you would like to select
Hide Tip
Map Tools
Area Search:
Quick Find by County, City, or Zip
Zoom:
In | Out | Show All of Texas
Map View:
Map | Satellite
Map Mode:
Navigate | Draw
Selection Mode:
Polygon | Segment | Point | Reset
Help using Draw Mode
60
University Dr
Boyett St
Click “Point”
Under Selection Mode
Save Location
Discard


CRIS Query Map Selection Tool
Map Instructions: Use the mouse to drag handles to the location you would like to select
Hide Tip
Map Tools
Area Search:
Quick Find by County, City, or Zip
Zoom:
In | Out | Show All of Texas
Map View:
Map | Satellite
Map Mode:
Navigate | Draw
Selection Mode:
Polygon | Segment | Point | Reset
Help using Draw Mode
60
University Dr
Clear Selected Area
Changing drawing modes will clear the currently selected area.
Are you sure you want to change Draw Mode?
Yes
No
Click “Yes”
Save Location
Discard


CRIS Query Map Selection Tool
Map Instructions: Use the mouse to create your selection. See Help in the Map Tools panel for usage instructions
Hide Tip
If needed, adjust the buffer:
Click on Buffer, use left and right arrows on your keyboard to set buffer precisely
Map Tools
Area Search:
Quick Find by County, City, or Zip
Zoom:
In | Out | Show All of Texas
Map View:
Map | Satellite
Map Mode:
Navigate | Draw
Selection Mode:
Polygon | Segment | Point | Reset
Buffer:
Currently 250 Feet
Enter Latitude/Longitude
Help using Draw Mode
60
University Dr
Save Location
Discard


CRIS Query Map Selection Tool
Map Instructions: Use the mouse to drag handles to the location you would like to select
Hide Tip
Click on the map to set the “point” to the center of the intersection you are analyzing
Map Tools
Area Search:
Quick Find by County, City, or Zip
Zoom:
In | Out | Show All of Texas
Map View:
Map | Satellite
Map Mode:
Navigate | Draw
Selection Mode:
Polygon | Segment | Point | Reset
Buffer:
Currently 250 Feet
Enter Latitude/Longitude
Help using Draw Mode
60
University Dr
Boyett St
Discard



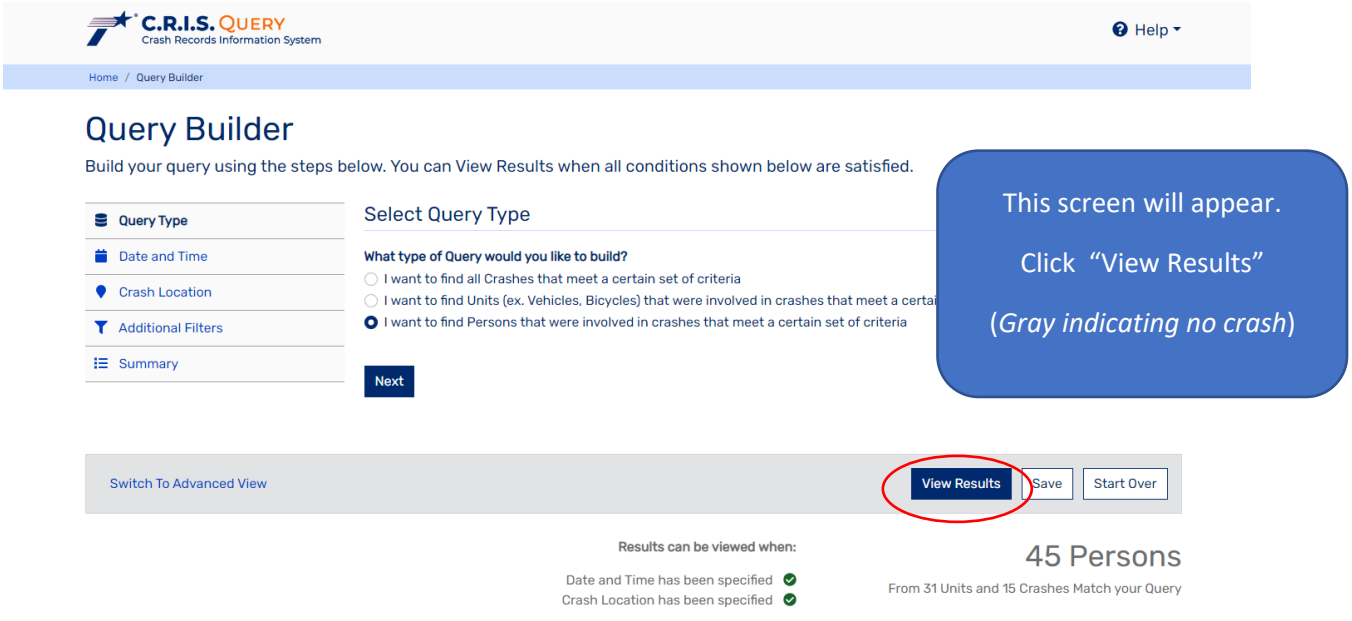
Query Disclaimer

Please accept the following disclaimer before continuing:

All crash data available using this tool represents reportable data collected from Texas Peace Officer's Crash Reports (CR-3) received and processed by the Texas Department of Transportation (Department) as of 01/26/2023. The Department makes no warranty, representation or guaranty as to the content, accuracy, timeliness or completeness of any of the information provided as a result of your query. Any opinions and conclusions resulting from analysis performed on the crash data must be represented as your own and not those of the State of Texas or the Department.

Click "Accept"

Accept



Query Results Summary

Your query returned a total of 15 Crashes containing 31 Units and 45 Persons. (Filter Results By Year)

All crash data available using this tool represents reportable data collected from Texas Peace Officer's Crash Reports (CR-3) received and processed by the Texas Department of Transportation (Department) as of 01/26/2023. The Department makes no warranty, representation or guaranty as to the content, accuracy, timeliness or completeness of any of the information provided as a result of your query. Any opinions and conclusions resulting from analysis performed on the crash data must be represented as your own and not those of the State of Texas or the Department.

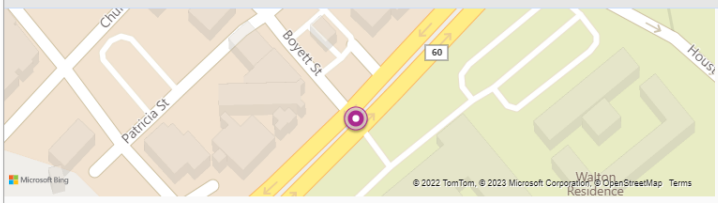
Available Query Results Views:

Click

"Create a Table"

Filters Applied to Query
Crash Year Is In 2018 or 2019 or 2020 or 2021
TxDOT Reportable Flag Is True

Query Search Area



Defined Search Coordinates

Latitude: 30.617, Longitude -96.347
Buffer: 250 ft

Create a Table

Select two fields to create a table view of your query. (Filter Results By Year)

Row Field *

Crash ID

Column Field

Person Type

Create Table | Reset

The tool will return with this Table.

Click “Export CSV”

Query Results Table View — Print | Export CSV

Crash ID\Person Type	1 - DRIVER	2 - PASSENGER/OCCUPANT	3 - PEDALCYCLIST	4 - PEDESTRIAN	Total
16244398	1	2	0	1	4
16268733	2	0	0	0	2
16317654	2	1	0	0	3
16389627	2	3	0	0	5
16408211	2	0	0	0	2
16614731	1	0	1	0	2
17243749	2	0	0	0	2
18121788	2	0	0	0	2
18129758	2	2	0	0	4
18210298	2	2	0	0	4
18386389	1	1	0	0	2
18386390	2	2	0	0	4

This will create an

Excel File with the crash information at the lower left of your screen

Click on the Excel File to open it.

Create a Table

Select two fields to create a table view of your query. (Filter Results By Year)

Row Field *

Crash ID

Column Field

Person Type

Create Table | Reset

Query Results Table View — Print | Export CSV

Crash ID\Person Type	1 - DRIVER	2 - PASSENGER/OCCUPANT	3 - PEDALCYCLIST	4 - PEDESTRIAN	Total
16244398	1	2	0	1	4
16268733	2	0	0	0	2
16317654	2	1	0	0	3
16389627	2	3	0	0	5
16408211	2	0	0	0	2
16614731	1	0	1	0	2
17243749	2	0	0	0	2
18121788	2	0	0	0	2
18129758	2	2	0	0	4
18210298	2	2	0	0	4
18386389	1	1	0	0	2
18386390	2	2	0	0	4

my_table.csv

2						
3	Query Result Counts:					
4	Your query returned a total of 15 Crashes containing 31 Units and 45 Persons					
5						
6	Filters Applied to current Query:					
7	Crash Year Is In 2018 or 2019 or 2020 or 2021					
8	TxDOT Reportable Flag Is True					
9						
10						
11	Crash ID\Per	1 - DRIVER	2 - PASSEN	3 - PEDAL(	4 - PEDEST	Total
12	16244398	1	2	0	1	4
13	16268733	2	0	0	0	2
14	16317654	2	1	0	0	3
15	16389627	2	3	0	0	5
16	16408211	2	0	0	0	2
17	16614731	1	0	1	0	2
18	17243749	2	0	0	0	2
19	18121788	2	0	0	0	2
20	18129758	2	2	0	0	4
21	18210298	2	2	0	0	4
22	18386389	1	1	0	0	2
23	18386390	2	2	0	0	4
24	18483905	4	0	0	0	4
25	18535772	2	0	0	0	2
26	18535838	2	1	0	0	3
27	Total	29	14	1	1	45
28						
29						

my_table

Ready Accessibility: Unavailable

The Excel File will be in this format

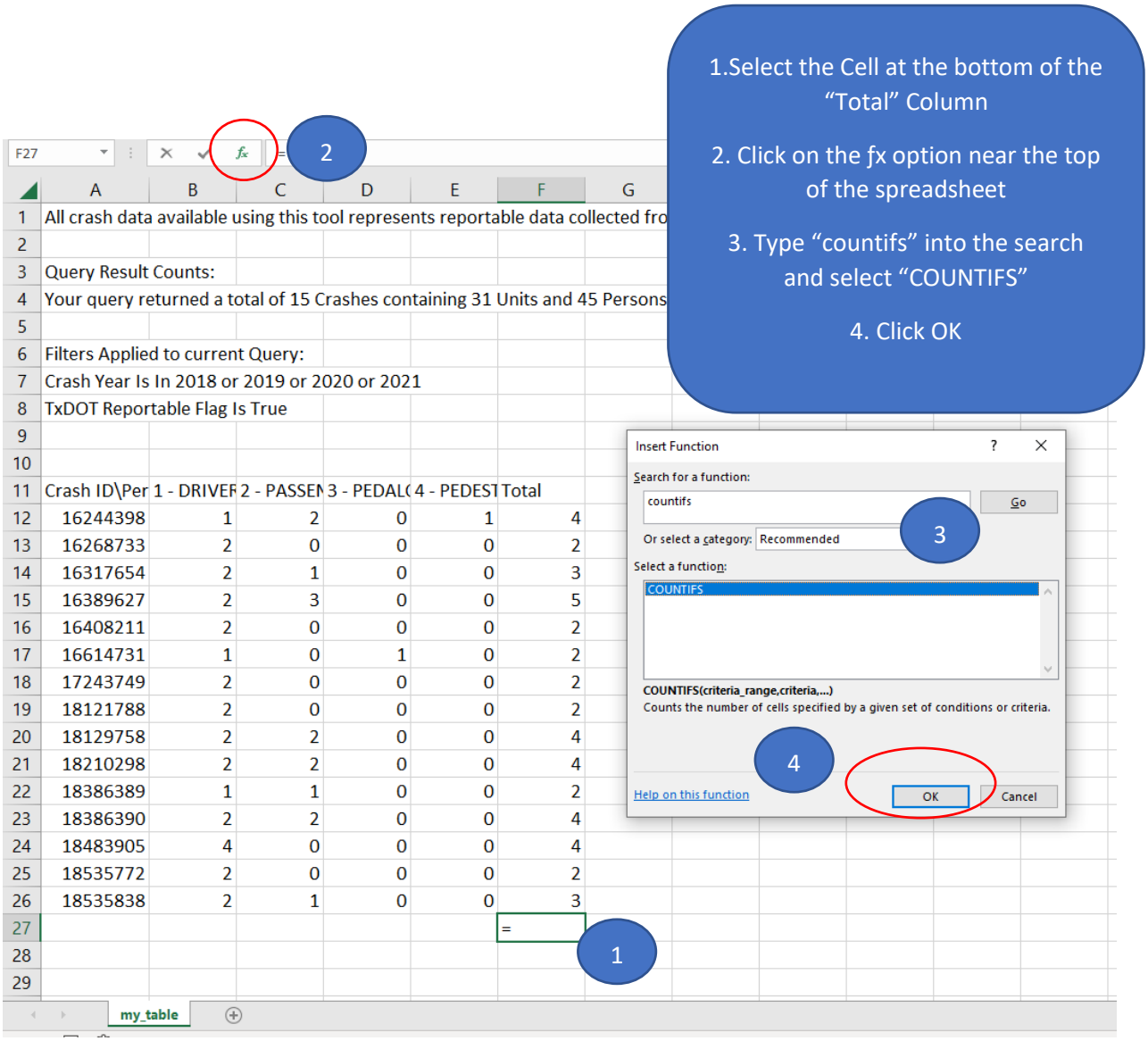
DELETE the row Labeled "Total"

This row totals the number of people in the crash and we want the number of crashes with certain types of people (pedestrians and bicyclists, in this case)

The following steps will show you how to calculate that information.

11	Crash ID\Per	1 - DRIVER	2 - PASSEN	3 - PEDAL(	4 - PEDEST	Total
12	16244398	1	2	0	1	4
13	16268733	2	0	0	0	2
14	16317654	2	1	0	0	3
15	16389627	2	3	0	0	5
16	16408211	2	0	0	0	2
17	16614731	1	0	1	0	2
18	17243749	2	0	0	0	2
19	18121788	2	0	0	0	2
20	18129758	2	2	0	0	4
21	18210298	2	2	0	0	4
22	18386389	1	1	0	0	2
23	18386390	2	2	0	0	4
24	18483905	4	0	0	0	4
25	18535772	2	0	0	0	2
26	18535838	2	1	0	0	3
27						

The table will now look like this


1.Select the Cell at the bottom of the "Total" Column
2. Click on the fx option near the top of the spreadsheet
3. Type "countifs" into the search and select "COUNTIFS"
4. Click OK
F27
2
All crash data available using this tool represents reportable data collected fro
Query Result Counts:
Your query returned a total of 15 Crashes containing 31 Units and 45 Persons
Filters Applied to current Query:
Crash Year Is In 2018 or 2019 or 2020 or 2021
TxDOT Reportable Flag Is True
Crash ID\Per 1 - DRIVER 2 - PASSEN 3 - PEDAL(4 - PEDEST Total
16244398 1 2 0 1 4
16268733 2 0 0 0 2
16317654 2 1 0 0 3
16389627 2 3 0 0 5
16408211 2 0 0 0 2
16614731 1 0 1 0 2
17243749 2 0 0 0 2
18121788 2 0 0 0 2
18129758 2 2 0 0 4
18210298 2 2 0 0 4
18386389 1 1 0 0 2
18386390 2 2 0 0 4
18483905 4 0 0 0 4
18535772 2 0 0 0 2
18535838 2 1 0 0 3
=
1
Insert Function
Search for a function:
countifs
Go
Or select a category: Recommended
3
Select a function:
COUNTIFS
COUNTIFS(criteria_range,criteria,...)
Counts the number of cells specified by a given set of conditions or criteria.
4
Help on this function
OK
Cancel
my_table

In the “Function Arguments” box

Set the Criteria, range1 for

all the rows in the Total Column

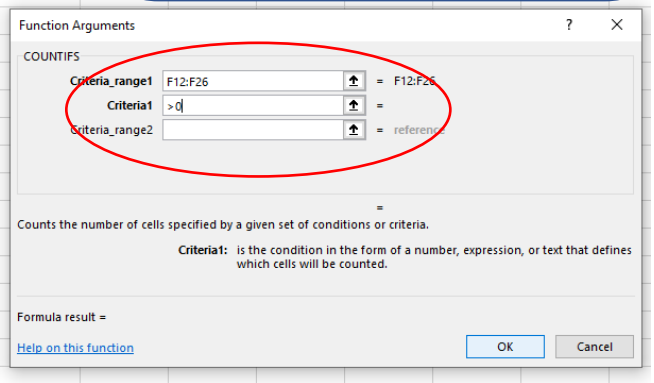
Then set Criteria1 to:

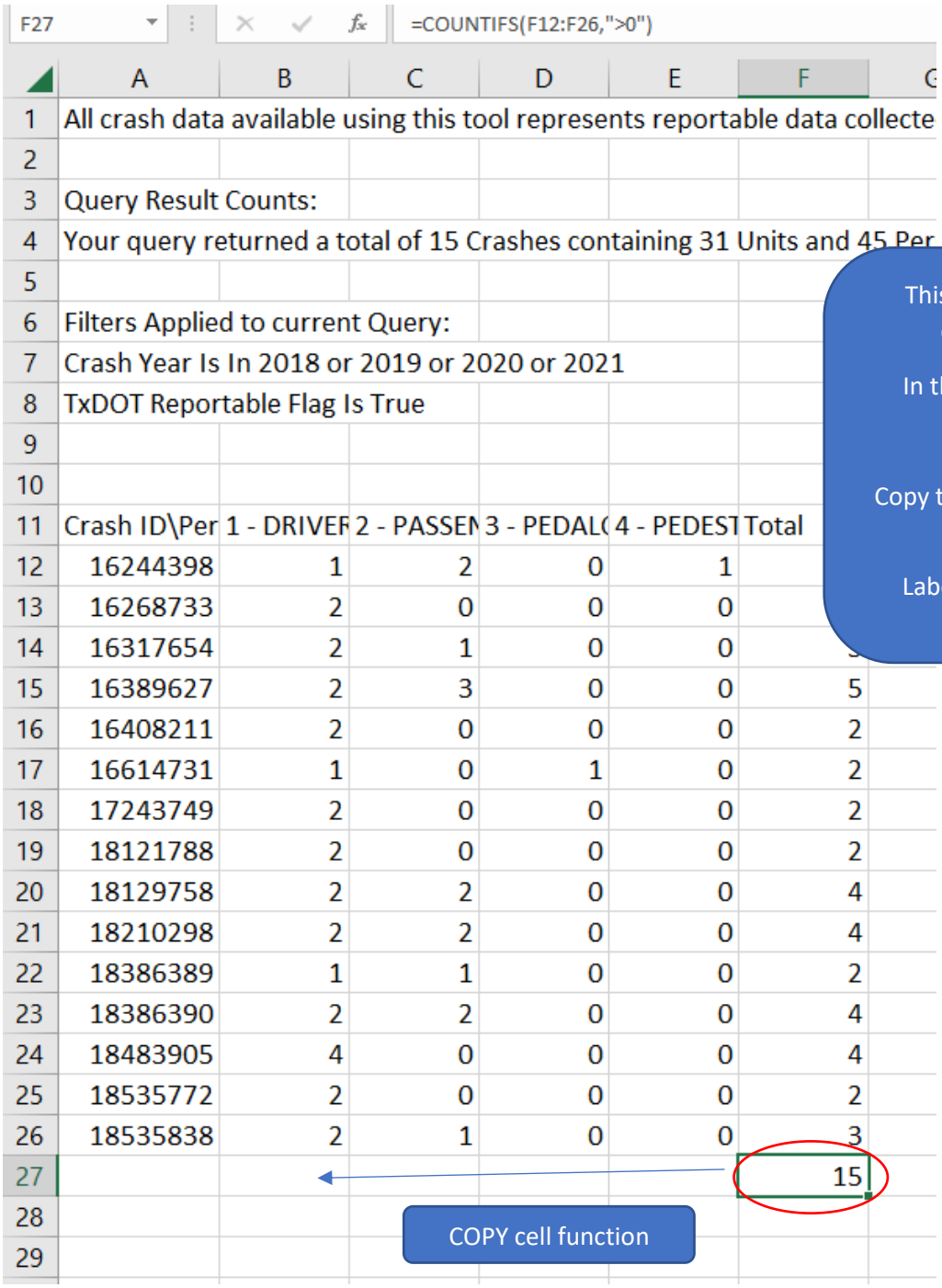
>0

Then Click

“OK”

1	All crash data available using this tool represents reportable data collected fro					
2						
3	Query Result Counts:					
4	Your query returned a total of 15 Crashes containing 31 Units and 45 Persons					
5						
6	Filters Applied to current Query:					
7	Crash Year Is In 2018 or 2019 or 2020 or 2021					
8	TxDOT Reportable Flag Is True					
9						
10						
11	Crash ID\Per	1 - DRIVEF	2 - PASSEN	3 - PEDAL(	4 - PEDEST	Total
12	16244398	1	2	0	1	4
13	16268733	2	0	0	0	2
14	16317654	2	1	0	0	3
15	16389627	2	3	0	0	5
16	16408211	2	0	0	0	2
17	16614731	1	0	1	0	2
18	17243749	2	0	0	0	2
19	18121788	2	0	0	0	2
20	18129758	2	2	0	0	4
21	18210298	2	2	0	0	4
22	18386389	1	1	0	0	2
23	18386390	2	2	0	0	4
24	18483905	4	0	0	0	4
25	18535772	2	0	0	0	2
26	18535838	2	1	0	0	3
27					6,>0)	
28						
29						





This will return the number of crashes in the database

In this case 15 unique crashes.

Copy the contents of this cell to the other Columns.

Label this Row “Total Crashes”

	A	B	C	D	E	F
1	All crash data available using this tool represents reportable data collected from Texas Peace Officer's Crasl					
2						
3	Query Result Counts:					
4	Your query returned a total of 15 Crashes containing 31 Units and 45 Persons					
5						
6	Filters Applied to current Query:					
7	Crash Year Is In 2018 or 2019 or 2020 or 2021					
8	TxDOT Reportable Flag Is True					
9						
10						
11	Crash ID\Person Typ	1 - DRIVER	2 - PASSENGER/OCCUPANT	3 - PEDALCYCLIST	4 - PEDESTRIAN	Total
12	16244398	1	2	0	1	4
13	16268733	2	0	0	0	2
14	16317654	2	1	0	0	3
15	16389627	2	3	0	0	5
16	16408211	2	0	0	0	2
17	16614731	1	0	1	0	2
18	17243749	2	0	0	0	2
19	18121788	2	0	0	0	2
20	18129758	2	2	0	0	4
21	18210298	2	2	0	0	4
22	18386389	1	1	0	0	2
23	18386390	2	2	0	0	4
24	18483905	4	0	0	0	4
25	18535772	2	0	0	0	2
26	18535838	2	1	0	0	3
27	Total Crashes	15	8	1	1	15

The Bicycle crashes are in the column labeled “3 -PEDALCYCLIST”

The Pedestrian crashes are in the column labeled “4 – PEDESTRIAN”

To obtain the Vehicle Crashes value for the tool,

Subtract the Bicycle and Pedestrian Crashes from the Total.

In this example, 15 – 1 – 1 = 13

The 4-yr results in this example are:

Vehicle Crashes – 13

Pedestrian Crashes - 1

Bicyclist Crashes – 1

The annual crash numbers are:

Annual Vehicle Crashes – 3.25 (13/4)

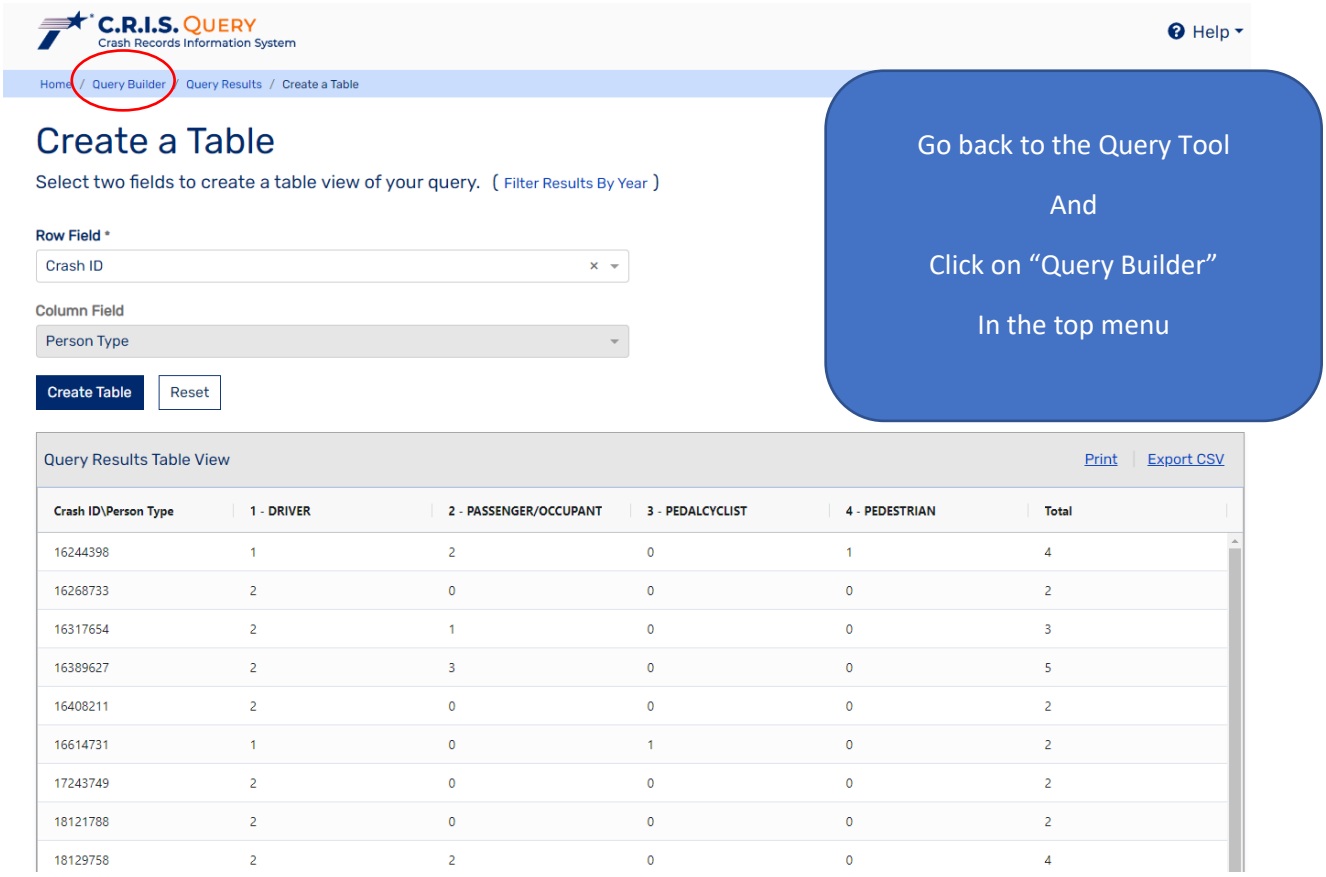
Annual Pedestrian Crashes – 0.25 (1/4)

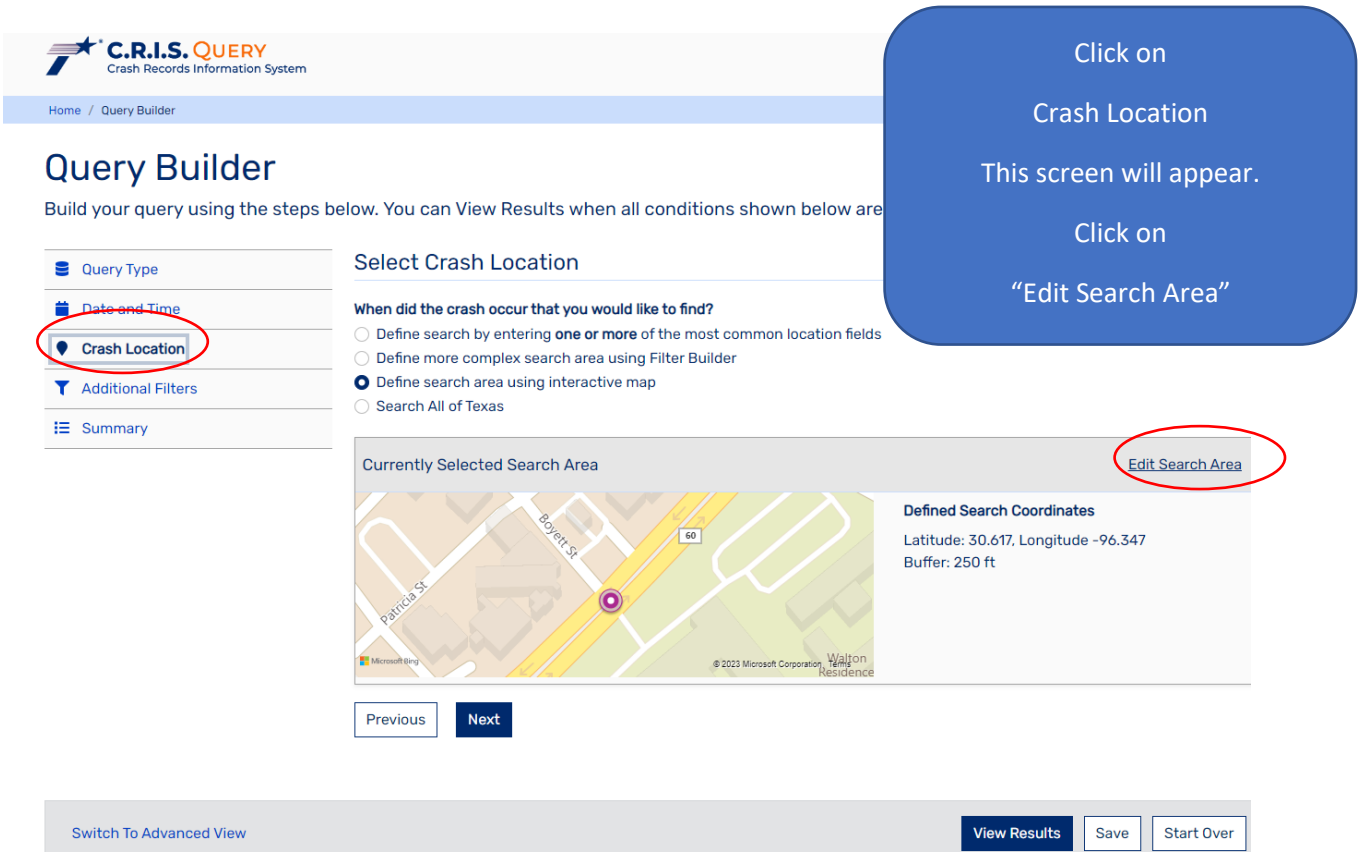
Annual Bicyclist Crashes – 0.25 (1/4)

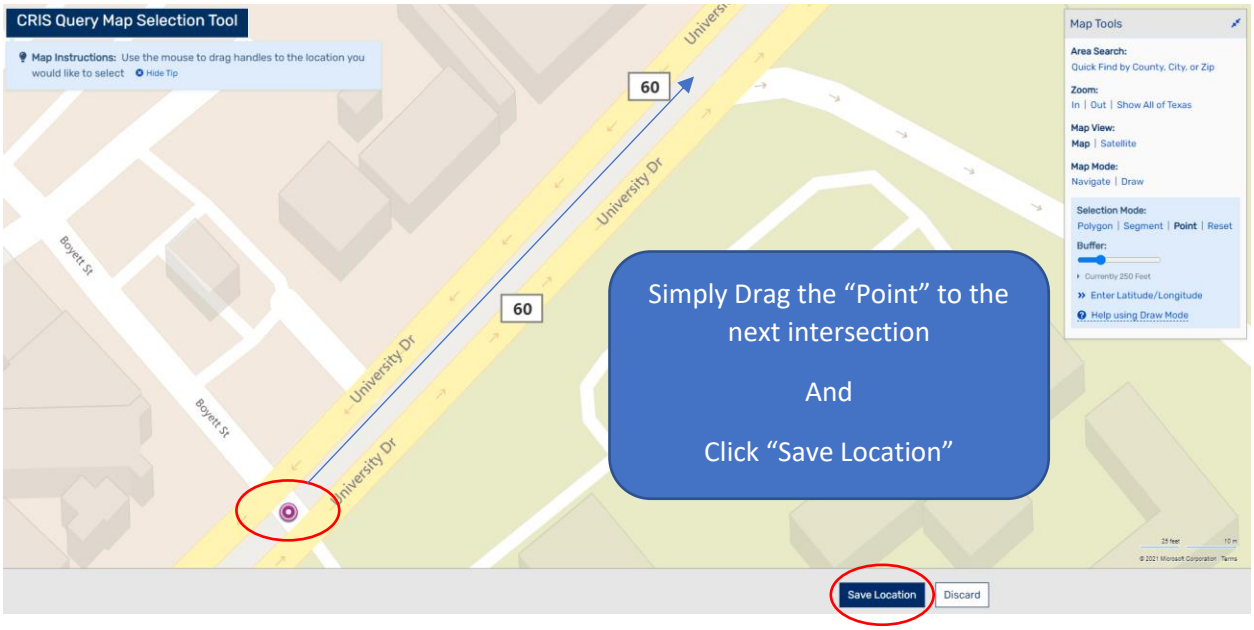
The annual crash numbers are the values to enter into the scoring sheet for Bicycle and Pedestrian Crashes.

If there are no PEDALCYCLIST or PEDESTRIAN columns in the table, their values are 0.

To obtain crash data for another intersection:







The rest are the same as the steps in the first intersection.