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/allqueries/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 crash occur that you would like to find?

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



Crash Year Is In 2018 or 2019 or 2020 or 2021

TxDOT Reportable Flag Is True







### ZOOM TO LOCATION











### **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 Stat Click "Accept" Accept C.R.I.S. QUERY 😯 Help -Home / Query Builder **Query Builder** Build your query using the steps below. You can View Results when all conditions shown below are satisfied. This screen will appear. Select Query Type Query Type Date and Time What type of Query would you like to build? Click "View Results" 🔿 I want to find all Crashes that meet a certain set of criteria Crash Location I want to find Units (ex. Vehicles, Bicycles) that were involved in crashes that meet a certa (Gray indicating no crash) • I want to find Persons that were involved in crashes that meet a certain set of criteria ▼ Additional Filters E Summary Next Switch To Advanced View View Results Start Over ave Results can be viewed when: 45 Persons Date and Time has been specified 🖉 From 31 Units and 15 Crashes Match your Query Crash Location has been specified 📀

# Query Results Summary

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

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# Create a Table

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

Row Field *				
Crash ID			×	Ŧ
Column Field				
Person Type				Ŧ
Create Table	Reset			

The tool will return with this Table.

### Click "Export CSV"

	-								
Query Results Table View Pr									
Crash ID\Person Type	1 - DRIVER	2 - PASSENGER/OC	CUPANT 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				

### 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

### This will create an

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

Click on the Exc File to open it

my\_table.csv

iery Results Table V	iew				Print E	xport CSV
Crash ID\Person Type	1 - DRIVER	2 - PASSENGER/OO	CCUPANT 3 - PEDALCYCLIST	4 - PEDESTRIAN	Total	
16244398	1	2	0	1	4	1
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	

× -

2							
3	Query Result	Counts:					
4	Your query re	5 Persons					
5							
6	Filters Applie	d to curren	t Query:				
7	Crash Year Is	The Freed File will be in					
8	TxDOT Repor	table Flag I	s True				this format
9							
10							DELETE the row Labeled
11	Crash ID\Per	1 - DRIVEF	2 - PASSEN	3 - PEDALO	4 - PEDEST	Total	"Total"
12	16244398	1	2	0	1	4	This row totals the
13	16268733	2	0	0	0	2	number of people in the
14	16317654	2	1	0	0	3	crash and we want the
15	16389627	2	3	0	0	5	certain types of people
16	16408211	2	0	0	0	2	(pedestrians and
17	16614731	1	0	1	0	2	bicyclists, in this case)
18	17243749	2	0	0	0	2	The following steps will
19	18121788	2	0	0	0	2	show you how to
20	18129758	2	2	0	0	4	calculate that
21	18210298	2	2	0	0	4	information.
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	
24	Total	29	14	1	1	45	
28							
29							
-	⊢ my_t	able (+	)				

Ready 🛛 🐻 🎇 Accessibility: Unavailable

11	Crash ID\Per	1 - DRIVER	2 - PASSEN	3 - PEDALO	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						
20						

The table will now look like this

								1.Select the Cell at the bottom of the
			$\sim$					"Total" Column
F27	<b>•</b> :	×	f.x =	2				2. Click on the fx option near the top
	А	в	C C	D	Е	F	G	of the spreadsheet
1	All crash data	available	using this to	ool represe	nts reporta	ble data co	llected fro	
2								3. Type "countifs" into the search
3	Query Result	Counts:						and select "COUNTIES"
4	Your query re	eturned a t	otal of 15 C	rashes con	taining 31	Units and 4	5 Persons	
5								4. Click OK
6	Filters Applie	d to curren	t Query:					
7	Crash Year Is	In 2018 or	2019 or 2	020 or 202	1			
8	TxDOT Repor	table Flag I	s True					
9							Insert	Function ? X
10							Search	for a function:
11	Crash ID\Per	1 - DRIVER	2 - PASSEN	3 - PEDALO	4 - PEDEST	Total	cour	ntifs <u>Go</u>
12	16244398	1	2	0	1	4		
13	16268733	2	0	0	0	2	Orse	elect a <u>category</u> : Recommended
14	16317654	2	1	0	0	3	Select	
15	16389627	2	3	0	0	5		
16	16408211	2	0	0	0	2		
17	16614731	1	0	1	0	2		~
18	1/243/49	2	0	0	0	2	cou	NTIFS(criteria_range,criteria,)
19	18121/88	2	0	0	0	2	Cour	the number of cells specified by a given set of conditions or criteria.
20	18129758	2	2	0	0	4		
21	18210298	2	2	0	0	4		
22	18386389	1	1	0	0	2	Help o	n this function OK Cancel
23	18386390	2	2	0	0	4		
24	10525773	4	0	0	0	4		
25	1052507/2	2	1	0	0	2		
20	100000000	2	1	U	0	- 3		
28						-	1	
29								
25		abla						
	my_t	unie (						

							In the "Function Arguments" box
							Set the Criteria, range1 for
1	All crash data	available usii	ng this tool r	epresents	eportable o	lata col	llected from all the rows in the Total Column
2	0 D I	<b>.</b> .					Then set Criteria1 to
3	Query Result	Counts:					men set entenar to.
4	Your query re	eturned a tota	l of 15 Cras	nes contain	ing 31 Units	s and 4	5 Persons
5							>0
6	Filters Applie	a to current C	luery:	2024			
/	Crash Year Is	In 2018 or 20	J19 or 2020 -	or 2021			I hen Click
8	TXDOT Repor	table Flag Is T	rue				
9							"ОК"
10	0 1 10 10						
11	Crash ID\Per	1 - DRIVER 2 -	- PASSEN 3 -	PEDALC4 - I	PEDESTTota		
12	16244398	1	2	0	1	4	Function Arguments ? X
13	16268733	2	0	0	0	2	COUNTIFS
14	16317654	2	1	0	0	3	Criteria_range1 F12:F26
15	16389627	2	3	0	0	5	Criteria1 >0 =
16	16408211	2	0	0	0	2	Softeria_range2
17	16614731	1	0	1	0	2	
18	17243749	2	0	0	0	2	
19	18121788	2	0	0	0	2	Counts the number of cells specified by a given set of conditions or criteria.
20	18129758	2	2	0	0	4	Criteria1: is the condition in the form of a number, expression, or text that defines
21	18210298	2	2	0	0	4	which cells will be counted.
22	18386389	1	1	0	0	2	Formula result -
23	18386390	2	2	0	0	4	
24	18483905	4	0	0	0	4	Help on this function OK Cancel
25	18535772	2	0	0	0	2	
26	18535838	2	1	0	0	3	
27					6,>0	)	
28							
29							

F27	•	× ✓	fx =COUN	ITIFS(F12:F26,'	'>0'')		
	А	В	С	D	E	F	G
1	All crash data	available u	using this to	ool represe	nts reporta	ble data co	ollecte
2							
3	Query Result	Counts:					
4	Your query re	eturned a to	otal of 15 C	rashes con	taining 31	Units and 4	15 Per
5							This will return the number of
6	Filters Applie	d to curren	t Query:				crashes in the database
7	Crash Year Is	In 2018 or	2019 or 2	020 or 202	1		In this case 15 unique crashes
8	TxDOT Repor	table Flag I	s True				in this case is unique clashes.
9							
10							Copy the contents of this cell to the
11	Crash ID\Per	1 - DRIVER	2 - PASSEN	3 - PEDAL(	4 - PEDEST	Total	other Columns.
12	16244398	1	2	0	1		Label this Row "Total Crashes"
13	16268733	2	0	0	0		
14	16317654	2	1	0	0	2	
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		•				15	
28			CC	PY cell funct	tion		
29							

	А	В	С	D	E	F
1	All crash data availal	ole using this	s tool represents reportable da	ata collected from T	exas Peace Office	r's Crasl
2						
3	Query Result Counts	:				
4	Your query returned	a total of 1	5 Crashes containing 31 Units	and 45 Persons		
5						
6	Filters Applied to cur	rent Query:				
7	Crash Year Is In 201	8 or 2019 o	2020 or 2021			
8	TxDOT Reportable Fl	ag Is True				
9				$\frown$	$\frown$	
10				(	$\checkmark$	
11	Crash ID\Person Typ	1 - DRIVER	2 - PASSENGER/OCCUPANT	3 PEDALCYCLIST	PEDESTRIAN	Total
12	16244398	1	2			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	I 0	2
26	18535838	2	1	a		3
27	Total Crashes	15	8	1	1	1.5
~~					$\sim$	/ `

# 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.