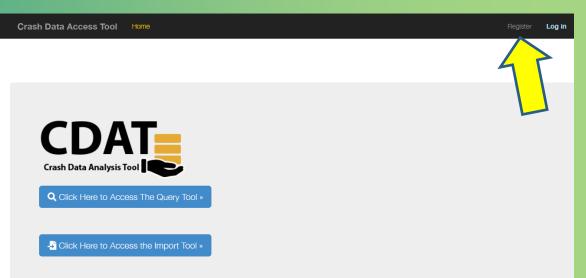
# Crash Data Access Analysis Tool

## What is CDAT?

Integrates crash with road data
Includes advanced crash flags
Includes HSM-based analysis
Compare to similar roads/regions
More than KYOPS
Updated once a year (matches rates report)
Maps

### http://crashtool.uky.edu





Want to know about CDAT? Watch this short video for more information!

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### Access

### Anonymous: no access to CDAT

- Basic: A basic user has access to information currently available to the public.
- Advanced: An advanced user has a current and signed MOU on file with KYTC and has access to information as outlined in that agreement



# **Functionality**

Query mode:
 Country, route and milepoint range
 Import mode:
 Upload your own file



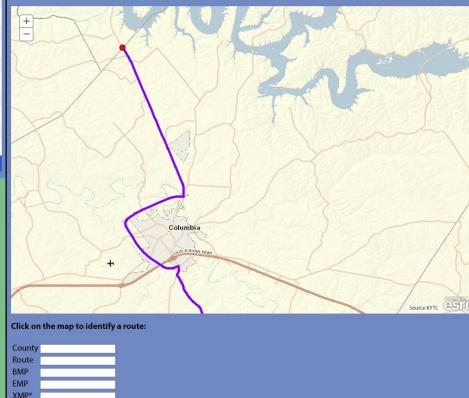
Crash Data Analysis Query Tool
Powered by Bill: a most excellent database!
希 Home ⑦ About 🗃 Query Tool 📲 Import Tool 🍳 KTSDS
<b>Step 1 - 🛐</b> Please define a county, route and starting/ending milepoints.
County
Limit to Prefix: ● PV ● CS ● CR ● PR ● PS ● LN ● FD ● KY Clear Prefix
Route
© Only Show Main Line ● Only Show Ramps ● Show All
More information on main line, ramps, and other section IDs can be found here. All non-cardinal crashes are counted on the cardinal segment.
Milepoints
0 To 21.305 NOTE: CDAT uses a route and milepoint that is post-processed to improve accuracy (KTC_RT and KTC_MP)

Мар

BEGIN_MP	END_MP	D_URBAREA	LANES	LANEWID	LASTCNT	
0	3.379	Rural	2	10	704	
3.379	6.184	Rural	2	10	1363	
6.184	9.335	Rural	2	10	2361	
9.335	9.68	Rural	2	10	5973	
9.68	9.68	Rural	2	12	5973	
9.68	9.68	Rural	2 10		1485	
9.68	10.941	Rural	2	12	1485	
9.68	9.68	Rural	2	12	5973	
9.68	9.68	Rural	2	10	1485	
9.68	9.68	Rural	2	12	1485	
		12				
	0 3.379 6.184 9.335 9.68 9.68 9.68 9.68 9.68 9.68	0       3.379         3.379       6.184         6.184       9.335         9.335       9.68         9.68       9.68         9.68       9.68         9.68       9.68         9.68       9.68         9.68       9.68         9.68       9.68         9.68       9.68         9.68       9.68	0         3.379         Rural           3.379         6.184         Rural           6.184         9.335         Rural           9.335         9.68         Rural           9.68         9.68         Rural	0         3.379         Rural         2           3.379         6.184         Rural         2           6.184         9.335         Rural         2           9.335         9.68         Rural         2           9.68         9.68         Rural         2	0         3.379         Rural         2         10           3.379         6.184         Rural         2         10           6.184         9.335         Rural         2         10           6.184         9.335         Rural         2         10           9.335         9.68         Rural         2         10           9.68         9.68         Rural         2         12           9.68         9.68         Rural         2         10           9.68         9.68         Rural         2         10           9.68         9.68         Rural         2         12	

### New version features interactive mapping!

Click on a row above to set the query to that segment



\*The closest milepoint to the point clicked on

Change query to the entire route identified

Change query to near where the route identified was clicked

#### Step 2 - 🗹 Please define additional parameters.

Severity

#### Please define the crash severity:

K (Killed)

- A (Suspected Serious Injury\*)
- B (Suspected Minor Injury\*)
- C (Possible Injury)
- O (Property Damage Only)
- U (unknown)
- H (hit and run where injury is not known)

#### \*New categories used starting in 2017

Filters

Check any boxes below to limit the res	ults to only include the crash ty	/pes selected (checking more	e than one will limit results to be of	both crash types):

Motorcycle Commercial Vehicle Lane Departure Run Off the Road Young Driver Mature Driver Pedestrian Involved Bicyclist Involved Distracted Driving Aggressive Driving Impaired Driving

Unrestrained Hit and Run

Click here to access Crash type definitions and intersection descriptions

Road Type	

Select One:

<ul> <li>Private property and Public</li> </ul>	2
Select One:	

Timeframe

Parking Lot and Non-Parking Lot

Private property only

#### Public only

Parking lot only

Non-Parking lot only

✓ 2015 
✓ 2016 
✓ 2017 
✓ 2018 
✓ 2019

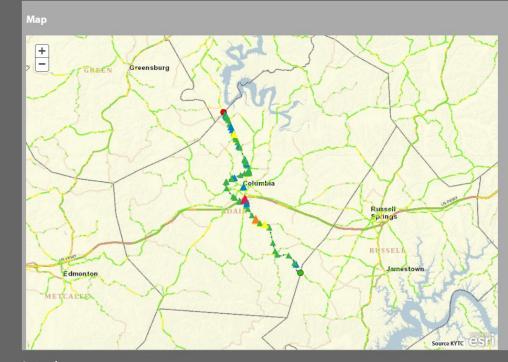
View Data





Intersection Table:													
IntersectionID	MainRt	MainMP	MinRt	MinMP	Approaches	ClassType	MajorAADT	MinorAADT	K	A	B	c c	AII_EE
34491	001-KY-0055 -000	00.419	001-CR-1193 -000	)	3	U3rP	704	89	0	0 (	) (	0 0	-0.030
35768	001-KY-0055 -000	01.008	001-CR-1881-000	0	3	U3rP	704	89	0	0 0	) :	1 1	0.293
36938	001-KY-0055 -000	1.881	001-CR-1199-000	0	3	U3rP	704	89	0	1 (	) (	0 0	0.131
37098	001-KY-0055 -000	2.888	001-CR-1238 -000	0	3	U3rP	704	89	0	0 (	) (	0 0	-0.030
37276	001-KY-0055 -000	02.224	001-CR-1200-000	)	3	U3rP	704	89	0	0 0	) :	1 1	0.293
37628	001-KY-0055 -000	3.55	001-KY-0768 -000	27.423	3	U3rP	1364	163	0	0 0	) (	0 0	-0.168
37999	001-KY-0055 -000	3.887	001-CR-1205 -000	0	3	U3rP	1364	89	0	0 0	) (	0 0	-0.079
39818	001-KY-0055 -000	5.262	001-CR-1871-000	0	3	U3rP	1364	89	0	0 0	) (	0 0	-0.079
41162	001-KY-0055 -000	06.184	001-KY-0092 -000	0	3	U3rP	1862	195	0	0 0	) (	2	0.548
41250	001-KY-0055 -000	06.305	001-CR-1888 -000	0	3	U3rP	2360	89	0	0 0	) (	0 0	-0.171
					123456								

#### Advanced Map Use the map below view and identify crash and roadway data



ImageServices/Ky NAIP 2020 2FT
AADT
Speed Limit
Median
Number of Lanes

Lane Width

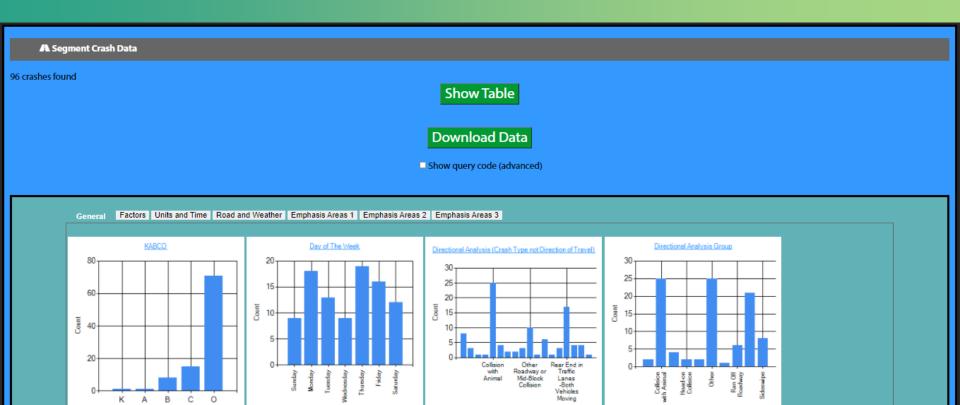
Functional Class

Shoulder Width

EEC Layers

Legend

K A B C O Other



Note: You can click a graph title for more information.

#### Step 3 - 🖬 Safety Performance Functions. Please select an SPF for the segment



Length:	
AADT:	3594.5
а	-4.492
b	0.844

AADT is 100 if there is no count for a segment Any values that are changed will be shown in orange. Values will be shown in red if non-numeric values are entered.

Adjustment Factors (optionally add notes)

Click here for more information about Adjustment Factors

Perform Advanced Analysis

#### Safety Score

Disclaimer! Advanced analysis is based on using statewide SPFs generally based on all crashes. If you apply any crash filters then you must use adjustment factors to obtain accurate results. Moreover, statewide SPFs are based on predominate base conditions. You must also apply adjustment factors if the segment or intersection you are analyzing has geometrics different from these base conditions. As always, use engineering judgement.

Crash prediction at site	239.1	crashes per time period				
EB Estimate	113.2	crashes per time period				
Excess Expected Crashes (EEC)	-125.9	crashes per time period				
Standard Deviation (+/-)	10	crashes per time period				
Level of Service of Safety (LOSS)	2	crashes per time period				