TxSTORM
Texas State Trend Over-Representation Model

Overview of TxSTORM

Welcome to TxSTORM, the Texas State Trend Over-Representation Model. This model is sponsored by the Texas Traffic Records Coordination Committee (TRCC) and hosted by the Texas A&M Transportation Institute (TTI), which is the technical advisor to the TRCC.

Texas is a large state with 254 counties of all sizes and demographics. Determining how to identify trends and allocate limited resources is always a challenge. Traditional methods for resource allocation focus on jurisdictions with highest total of a given variable like crashes or calls for trauma service. While certainly defensible, this method largely ignores smaller jurisdictions where a smaller number of cases could be having a much greater relative impact.

Unveiled for beta testing in August 2021, TxSTORM is intended to be used as a high-level filter to quickly identify trends and indicate where resources may be most urgently needed. To make this happen, TxSTORM is designed to integrate data from one or more critical traffic safety databases to provide a high-level perspective of various traffic-related trends by determining where certain elements are statistically over-represented.

TxSTORM uses aggregated jurisdictional data to blend trend over-representation to "flag" jurisdictions, and then help prioritize those jurisdictions with a Relative Impact Value (RIVAL) score based on projected net change in that variable. Higher RIVAL scores indicate a jurisdiction has a greater need for countermeasures and resources relative to other jurisdiction or the state overall.

Using RIVAL scores allows query results to be plotted on various maps and graphs. However, the data underlying TxSTORM computations are aggregated or "grouped" data. Users who want more granular data need to request the more granular data directly from the agency governing those specific data.

How TxSTORM identifies over-representation

TxSTORM's model is based on comparing current data to three-year baseline averages, both at the jurisdictional and statewide levels. For Fiscal-Year-to-Date (FYTD) comparisons, TxSTORM forecasts the end-of-year value for each variable by averaging the actual FYTD monthly average with the baseline monthly average to fill in remaining months. This method forces a conservative regression toward the baseline for future months remaining in the FY. Each value is recalculated each month as the YTD data is updated. Projected percent-change and projected net change between the forecast YTD total and the baseline total for each variable are calculated for the state and for each jurisdiction. The statewide percent change is subtracted from the jurisdictional percent change. The resulting net percentage is the basis for the flag, with positive results indicating over-representation.

Flags are determined using the following formula:

$$Jurisdiction\ [YTD\ total + (Average(YTD\ total/YTD\ months, Baseline\ total/12)) * (12 - YTD\ months)]/$$
$$Baseline\ total]$$
$$-$$
$$Statewide\ [YTD\ total + (Average(YTD\ total/YTD\ months, Baseline\ total/12)) * (12 - YTD\ months)]/$$
$$Baseline\ total]$$

In addition to the jurisdiction flag, this formula is also used to determine flag at the TxDOT district and Texas county levels. The formula is modified accordingly for those levels.

Relative Impact Value (RIVAL) score

Once a jurisdiction is flagged, its RIVAL score is calculated by multiplying the net percentage by the absolute value of the projected net change. **The larger the RIVAL score, the greater the relative impact of the activity represented by that variable is at the state and/or jurisdictional levels.** RIVAL allows for jurisdictional and/or statewide comparisons on a month-to-month and year-over-year basis. When TxSTORM is used as a guide for the allocation of resources, tracking the change in RIVAL scores makes it possible to track pre- and post-treatment changes.

The RIVAL score is calculated using the following formula:

$$Jurisdiction\ Flag\ x\ Jurisdiction\ [ABS(YTD\ total + (Average(YTD\ total/YTD\ months, Baseline\ total/12)) * (12 -$$
$$YTD\ months) - Baseline\ total)]$$

In addition to the jurisdiction RIVAL score, this formula is also used to calculate RIVAL score at the TxDOT district and Texas county levels. The formula is modified accordingly for those levels.

About the data

Data provided for comparison in TxSTORM comes in an aggregated format devoid of PII (Personal Identification Information), and with a county-level identifier. This allows data to be aggregated and compared by county. Data is largely provided monthly by the agencies governing the various databases, meaning the data is relatively current but the most recent contribution may not be completely up to date. Each contributing database is re-queried each month to ensure, to the extent possible, that the most recent data is included.

About the Texas TRCC

The Texas TRCC receives federal 405(c) funding from the National Highway Traffic Safety Administration to improve the state's various traffic records systems' critical databases, including crash, driver, vehicle, roadway, citation and adjudication, and trauma/EMS.

States are also required to show quantifiable progress in improving their traffic records systems according to six specific measures:

1. Accuracy,
2. Completeness,
3. Timeliness,
4. Uniformity,
5. Accessibility, or
6. Integration of a core highway safety database.

Access the TRCC website at https://texastrcc.org.

Accessing and Using TxSTORM

The Texas State Trend Over-Representation Model (TxSTORM) is located on the TEXASTRCC.org website.

1. Click on the link to access the application: https://texastrcc.org/txstorm.

2. There are 16 interactive pages in the dashboard that show scores for jurisdictions (cities), counties and TxDOT districts. The following is a list of the pages and shows KA (fatal and suspected serious injury) or KABCO (all severity crashes):

    *   KA RIVAL Scores by Jurisdiction for each crash type
    *   KABCO RIVAL Scores by Jurisdiction for each crash type
    *   KA RIVAL Scores by TxDOT District and County for each crash type
    *   KABCO RIVAL Scores by TxDOT District and County for each crash type
    *   DUI (Impaired Driving) only RIVAL Scores – KA only
    *   OP (Occupant Protection/Lack of restraint) only RIVAL Scores – KA only
    *   SP (Speeding related) only RIVAL Scores – KA only
    *   ITC (Intersection related) only RIVAL Scores – KA only
    *   CMV (Large Truck) only RIVAL Scores – KA only
    *   PED (Pedestrian involved) only RIVAL Scores – KA only
    *   BIKE (Cyclist involved) only RIVAL Scores – KA only
    *   CP (Child Passenger 8 years and younger) only RIVAL Scores – KA only
    *   MC (Motorcycle) only RIVAL Scores – KA only
    *   MD (Mature Driver) only RIVAL Scores – KA only
    *   YD (Young Driver) only RIVAL Scores – KA only
    *   Total RIVAL SCORE – KA only

3. Looking at the first page, on the left side of the page you can choose a TxDOT district.

Latest (FY 2023) | Instructions

County	DUI flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag R
STATEWIDE	-272.05	253.06	240.88	980.18	230.23	

TxSTORM - KA Jurisdiction

TxDOT District
- Select all
- ☐ Abilene
- ☐ Amarillo
- ☐ Atlanta
- ■ Austin
- ☐ Beaumont
- ☐ Brownwood
- ☐ Bryan
- ☐ Childress
- ☐ Corpus Christi
- ☐ Dallas
- ☐ El Paso
- ☐ Ft. Worth
- ☐ Houston
- ☐ Laredo
- ☐ Lubbock
- ☐ Lufkin
- ☐ Odessa
- ☐ Paris
- ☐ Pharr
- ☐ San Angelo
- ☐ San Antonio
- ☐ Tyler
- ☐ Waco
- ☐ Wichita Falls
- ☐ Yoakum

County
All ⌄

Number of FY Months
11

Jurisdiction	DUI flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag R
DS, Hays	6.80 ⚑	1.05 →	0.05 →	8.25 ↑	-1.52 ↓	
liamson	6.01 ⚑	-1.56 ↓	-1.98 ↓	-2.23 ↓	-1.60 ↓	
OUTSIDE CITY LIMITS, Bastrop	3.92 ↑	-2.91 ↓	-3.55 ↓	17.87 ⚑	-3.36 ↓	
BUDA, Hays	2.00 →	1.35 →	-1.75 ↓	-1.73 ↓	1.31 →	
MARBLE FALLS, Burnet	1.51 →	-0.97 ↓	12.80 ⚑	18.84 ⚑	-1.15 ↓	
MUSTANG RIDGE, Travis	1.51 →	-0.97 ↓	-0.94 ↓	0.73 →	-1.15 ↓	
NIEDERWALD, Hays	1.51 →	1.35 →	-1.62 ↓	-1.05 ↓	-1.15 ↓	
CREEDMOOR, Travis	1.00 →	0.00 ↓	0.00 ↓	0.00 ↓	-1.15 ↓	
GIDDINGS, Lee	1.00 →	-1.11 ↓	-0.94 ↓	-1.64 ↓	-1.15 ↓	
NIEDERWALD, Caldwell	1.00 →	1.00 →	1.38 →	-1.19 ↓	-1.15 ↓	
ANDICE, Williamson	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
ANTON, Travis	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
AUSTIN, Hays	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BALCONES HEIGHTS, Travis	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BARTLETT, Williamson	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BEAR CREEK, Hays	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BERTRAM, Burnet	0.00 ↓	1.00 →	1.00 →	-1.05 ↓	0.00 ↓	
BLUFFTON, Llano	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BRIARCLIFF, Travis	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BRIGGS, Burnet	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BUCHANAN DAM, Llano	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
Selected Area	**-29.13**	**27.50**	**40.92**	**43.49**	**-4.33**	

⚑ ≥ 2X State Average   ↑ > State Average   ⇒ ≤ State Average   ↓ ≤ Zero

4. Below the list of districts is a dropdown box that allows you to select individual counties within the selected districts. You can select multiple options by holding down the CTRL key while clicking additional categories.

Jurisdiction	DUI flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVA
OUTSIDE CITY LIMITS, Bastrop	3.92 ↑	-2.91 ↓	-3.55 ↓	17.87 ⚑	-3.36 ↓	
CEDAR CREEK, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
DALE, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
DEL VALLE, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
MCDADE, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
PAIGE, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
RED ROCK, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
ROSANKY, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
SMITHVILLE, Bastrop	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BASTROP, Bastrop	-0.95 ↓	-0.97 ↓	-1.61 ↓	-2.13 ↓	-1.15 ↓	
ELGIN, Bastrop	-0.95 ↓	-0.97 ↓	-1.53 ↓	-1.72 ↓	1.00 →	
Selected Area	2.64	-2.77	-4.09	15.69	-3.57	

⚑ ≥ 2X State Average   ↑ > State Average   ➡ ≤ State Average   ↓ ≤ Zero

5. Below the County Box you will see the number of months, from the current fiscal year, being used to calculate the scores. In this example, it is **11 months** from the beginning of the fiscal year.

6. As you make selections the RIVAL scores will update based on the selections. If you would like to clear a selection, you can either unselect your choices, or use the clear selection icon. The icon will pop-up when your mouse hovers over the filter box.

7.

8. For each location in the table you will see several columns of scores. The following is the list of crash types:
   - DUI – Impaired driving crashes
   - OP – Occupant protection crashes (lack of seatbelt use)

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- SP – Speed related crashes
- ITC – Intersection related crashes
- CMV – Large truck crashes
- **PED – Pedestrian involved crashes**
- BIKE – Cyclist involved)
- CP – Child Passenger 8 years and younger
- MC – Motorcycle
- MD – Mature driver
- YD – Young driver
- Total – All crashes

9. When you hover your mouse over a column name you will see a black down arrow that allows you to sort the table by that column from largest to smallest or the reverse.

10. At the bottom of the screen are the navigation buttons to move through the other pages in the dashboard. **The Pedestrian Involved KA information is in Page 10.**

Pedestrian Involved KA

TxDOT District
- Select all
- Abilene
- Amarillo
- Atlanta
- ☑ Austin
- Beaumont
- Brownwood
- Bryan
- Childress
- Corpus Christi
- Dallas
- El Paso
- Ft. Worth
- Houston
- Laredo
- Lubbock
- Lufkin
- Odessa
- Paris
- Pharr
- San Angelo
- San Antonio
- Tyler
- Waco
- Wichita Falls
- Yoakum

County
All

Number of FY Months
11

County	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
STATEWIDE	2029	1984	136.95

Jurisdiction	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score	
GEORGETOWN, Williamson	2	6	12.78	⚑
OUTSIDE CITY LIMITS, Bastrop	4	8	8.60	⚑
OUTSIDE CITY LIMITS, Caldwell	1	3	5.86	⚑
AUSTIN, Travis	102	99	5.01	↑
SAN MARCOS, Hays	8	9	1.06	→
LLANO, Llano	0	1	1.00	→
WIMBERLEY, Hays	0	1	1.00	→
ROUND ROCK, Williamson	4	5	0.82	→
OUTSIDE CITY LIMITS, Travis	12	12	0.07	→
ANDICE, Williamson	0	0	0.00	↓
ANTON, Travis	0	0	0.00	↓
AUSTIN, Hays	0	0	0.00	↓
BALCONES HEIGHTS, Travis	0		0.00	↓
BARTLETT, Williamson	0		0.00	↓
BEAR CREEK, Hays	0	0	0.00	↓
BERTRAM, Burnet	0	0	0.00	↓
BLANCO, Blanco	0	0	0.00	↓
BLUFFTON, Llano	0	0	0.00	↓
BRIARCLIFF, Travis	0	0	0.00	↓
BRIGGS, Burnet	0	0	0.00	↓
BUCHANAN DAM, Llano	0	0	0.00	↓
Selected Area	**160**	**158**	**11.66**	

⚑ ≥ 2X State Average   ↑ > State Average   ⇒ ≤ State Average   ↓ ≤ Zero

Ped flag RIVAL Score by County

PED flag RIVAL Score by County

County	PED flag RIVAL Score
Travis	4.21
Caldwell	3.77
Williamson	3.26
Bastrop	2.69
Mason	0.00
Blanco	-0.97
Llano	-0.97
Hays	-0.98
Gillespie	-1.10
Lee	-1.10
Burnet	-1.18

Practice #1

1. Open the web page with the TxSTORM dashboard. https://texastrcc.org/txstorm

2. On page 1 of 16, select Waco from the list of districts on the left side of the screen.

3. Use the slider at the bottom of the large table to make the PED flag RIVAL Score visible.

Latest (FY 2023)	Instructions

TxSTORM - KA Jurisdiction

TxDOT District
- Select all
- Abilene
- Amarillo
- Atlanta
- Austin
- Beaumont
- Brownwood
- Bryan
- Childress
- Corpus Christi
- Dallas
- El Paso
- Ft. Worth
- Houston
- Laredo
- Lubbock
- Lufkin
- Odessa
- Paris
- Pharr
- San Angelo
- San Antonio
- Tyler
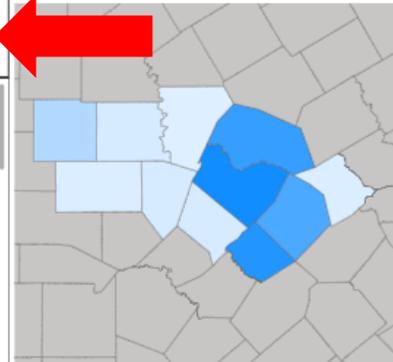- ■ Waco
- Wichita Falls
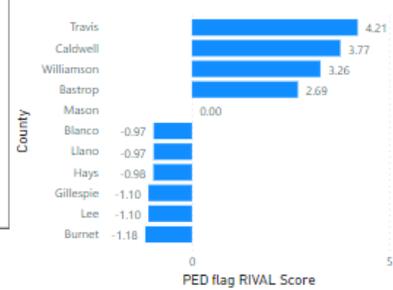- Yoakum

County
All

Number of FY Months
11

County	ore	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike flag RIVAL Score	CP flag RIVAL Score	MC fl
STATEWIDE	88	980.18	230.23	136.95	63.36	88.95	

Jurisdiction	ore	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike flag RIVAL Score	CP flag RIVAL!	
HEWITT, McLennan	→	-1.05 ↓	-1.15 ↓	1.35 →	0.00 ↓	0.00 ↓	
WOODWAY, McLennan	↑	5.77 ↑	1.00 →	0.00 ↓	0.00 ↓	-1.10 ↓	
BRUCEVILLE-EDDY, McLennan	→	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
COVINGTON, Hill	↓	-1.19 ↓	-1.15 ↓	0.00 ↓	0.00 ↓	-1.10 ↓	
HAMILTON (HAMILTON), Hamilton	↓	1.00 →	1.00 →	0.00 ↓	0.00 ↓	0.00 ↓	
BELTON, Bell	↓	-2.13 ↓	-1.69 ↓	-2.05 ↓	-1.18 ↓	1.36 →	
ABBOTT, Hill	↓	0.00 ↓	5.81 ↑	0.00 ↓	0.00 ↓	0.00 ↓	
AQUILLA, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
AXTELL, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BARTLETT, Bell	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BEVERLY HILLS, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BLUM, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
BYNUM, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
CARL'S CORNER, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	-1.10 ↓	
CARLTON, Hamilton	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
CHILTON, Falls	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
PRING, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
...ON, Bosque	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
COOLIDGE, Limestone	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
COPPERAS COVE, Bell	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
CRANFILLS GAP, Bosque	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	
Selected Area	.32	-13.85	-7.91	-8.17	-2.03	1.03	

⚑ ≥ 2X State Average   ↑ > State Average   ⇒ ≤ State Average   ↓ ≤ Zero

Microsoft Power BI   1 of 16 >   — ═ + 67%

4. Sort the PED column from greatest to least. Harker Heights in Bell County should be at the top of the list.

Latest (FY 2023) | Instructions

TxSTORM - KA
Jurisdiction

TxDOT District
- ☐ Select all
- ☐ Abilene
- ☐ Amarillo
- ☐ Atlanta
- ☐ Austin
- ☐ Beaumont
- ☐ Brownwood
- ☐ Bryan
- ☐ Childress
- ☐ Corpus Christi
- ☐ Dallas
- ☐ El Paso
- ☐ Ft. Worth
- ☐ Houston
- ☐ Laredo
- ☐ Lubbock
- ☐ Lufkin
- ☐ Odessa
- ☐ Paris
- ☐ Pharr
- ☐ San Angelo
- ☐ San Antonio
- ☐ Tyler
- ■ Waco
- ☐ Wichita Falls
- ☐ Yoakum

County
All ▾

Number of FY Months
11

County	ore	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike flag RIVAL Score	CP flag RIVAL Score	MC f
STATEWIDE	88	980.18	230.23	136.95	63.36	88.95	

Jurisdiction	ore	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike flag RIVAL Score	CP flag RIVAL !
HARKER HEIGHTS, Bell	↑	-2.13 ↓	0.00 ↓	5.86 🚩		-1.10 ↓
HEWITT, McLennan	→	-1.05 ↓	-1.15 ↓	1.35 →	0.00 ↓	0.00 ↓
OUTSIDE CITY LIMITS, Coryell	↓	0.73 →	5.81 ↑	1.35 →	-1.18 ↓	5.87 ↑
ABBOTT, Hill	↓	0.00 ↓	5.81 ↑	0.00 ↓	0.00 ↓	0.00 ↓
AQUILLA, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
AXTELL, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
BARTLETT, Bell	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
BEVERLY HILLS, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
BLUM, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
BRUCEVILLE-EDDY, McLennan	→	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
BYNUM, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
CARL'S CORNER, Hill	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	-1.10 ↓
CARLTON, Hamilton	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
CHILTON, Falls	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
CHINA SPRING, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
CLIFTON, Bosque	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
COOLIDGE, Limestone	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
COPPERAS COVE, Bell	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
COVINGTON, Hill	↓	-1.19 ↓	-1.15 ↓	0.00 ↓	0.00 ↓	-1.10 ↓
CRANFILLS GAP, Bosque	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
CRAWFORD, McLennan	↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓	0.00 ↓
Selected Area	.32	-13.85	-7.91	-8.17	-2.03	1.03

🚩 ≥ 2X State Average   ↑ > State Average   ➡ ≤ State Average   ↓ ≤ Zero

9

5. Using the navigation arrows at the bottom of the screen go to the 10th page of the dashboard. You should see a page dedicated to pedestrian only KA crashes. Here you can see that Harker Heights has had three times as many crashes as compared to the last three years average. The bar chart in the bottom left corner shows pedestrian RIVAL scores by counties in the district.

County	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
STATEWIDE	2029	1984	136.95

Jurisdiction	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
HARKER HEIGHTS, Bell	1	3	5.86 🚩
HEWITT, McLennan	1	2	1.35 ➡
OUTSIDE CITY LIMITS, Coryell	1	2	1.35 ➡
ABBOTT, Hill	0	0	0.00 ⬇
AQUILLA, Hill	0	0	0.00 ⬇
AXTELL, McLennan	0	0	0.00 ⬇
BARTLETT, Bell	0	0	0.00 ⬇
BEVERLY HILLS, McLennan	0	0	0.00 ⬇
BLUM, Hill	0	0	0.00 ⬇
BRUCEVILLE-EDDY, McLennan	0	0	0.00 ⬇
BYNUM, Hill	0	0	0.00 ⬇
CARL'S CORNER, Hill	0	0	0.00 ⬇
CARLTON, Hamilton	0	0	0.00 ⬇
CHILTON, Falls	0	0	0.00 ⬇
CHINA SPRING, McLennan	0	0	0.00 ⬇
CLIFTON, Bosque	0	0	0.00 ⬇
COOLIDGE, Limestone	0	0	0.00 ⬇
COPPERAS COVE, Bell	0	0	0.00 ⬇
COVINGTON, Hill	0	0	0.00 ⬇
CRANFILLS GAP, Bosque	0	0	0.00 ⬇
CRAWFORD, McLennan	0	0	0.00 ⬇
Selected Area	**62**	**49**	**-8.17**

🚩 ≥ 2X State Average   ⬆ > State Average   ➡ ≤ State Average   ⬇ ≤ Zero

Pedestrian Involved KA

TxDOT District
- Select all
- Abilene
- Amarillo
- Atlanta
- Austin
- Beaumont
- Brownwood
- Bryan
- Childress
- Corpus Christi
- Dallas
- El Paso
- Ft. Worth
- Houston
- Laredo
- Lubbock
- Lufkin
- Odessa
- Paris
- Pharr
- San Angelo
- San Antonio
- Tyler
- ■ Waco
- Wichita Falls
- Yoakum

County
All ▾

Number of FY Months
11

Ped flag RIVAL Score by County

PED flag RIVAL Score by County

County	PED flag RIVAL Score
Bosque	0.00
Hamilton	0.00
Bell	-0.53
Coryell	-0.78
Hill	-0.97
Limestone	-1.10
Falls	-1.64
McLennan	-6.60

Practice #2

1. Use the navigation arrows at the bottom of the dashboard to get to the 3rd page of the screen, KA RIVAL Scores State District County.

2. Clear the TxDOT District filter on the left side of the screen.

3. Sort the middle table by the PED flag RIVAL Score from greatest to least. The Houston District should be at the top of the list.

4. Select Houston from the TxDOT filter on the left side of the screen.

5. Sort the bottom table by the PED flag RIVAL Score.

Latest (FY 2023)	Instructions

TxSTORM - KA District/County	County	Bike flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike f Score
	STATEWIDE	63.36	253.06	240.88	980.18	230.23	136.95	

	TxDOT District	DUI flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike fl
	Houston	-82.99 ↓	15.58 →	75.72 ⚑	222.13 ⚑	-4.72 ↓	71.06 ⚑	
	Selected Area	-82.99	15.58	75.72	222.13	-4.72	71.06	

TxDOT District
- Select all
- Abilene
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- Beaumont
- Brownwood
- Bryan
- Childress
- Corpus Christi
- Dallas
- El Paso
- Ft. Worth
- ■ Houston
- Laredo
- Lubbock
- Lufkin
- Odessa
- Paris
- Pharr
- San Angelo
- San Antonio
- Tyler
- Waco
- Wichita Falls
- Yoakum

County	DUI flag RIVAL Score	OP flag RIVAL Score	SP flag RIVAL Score	ITC flag RIVAL Score	CMV flag RIVAL Score	PED flag RIVAL Score	Bike fl Score
Montgomery	12.63 ⚑	9.10 ↑	41.00 ⚑	19.91 ↑	-7.52 ↓	-1.91 ↓	
Galveston	2.50 →	-9.41 ↓	11.39 ↑	6.91 →	-2.28 ↓	-2.91 ↓	
Waller	-2.65 ↓	1.74 →	5.57 →	16.52 ↑	-2.47 ↓	-1.64 ↓	
Fort Bend	-6.71 ↓	6.30 →	18.29 ⚑	49.38 ⚑	-2.47 ↓	0.92 →	
Brazoria	-8.46 ↓	0.93 →	1.77 →	18.03 ↑	-0.93 ↓	2.83 →	
Harris	-73.89 ↓	6.12 →	4.22 →	114.45 ⚑	6.93 ↑	68.45 ⚑	
Selected Area	-82.99	15.58	75.72	222.13	-4.72	71.06	

County

All ⌄

Number of FY Months

11

⚑ ≥ 2X State Average ↑ > State Average ⇒ ≤ State Average ↓ ≤ Zero

6. Navigate back to Page 10 of the dashboard. The Houston District should already be selected. The City of Houston, with the second highest RIVAL score, has a lot of pedestrian crashes, as expected, but less than the previous three-year average.

Pedestrian Involved KA

TxDOT District
- Select all
- Abilene
- Amarillo
- Atlanta
- Austin
- Beaumont
- Brownwood
- Bryan
- Childress
- Corpus Christi
- Dallas
- El Paso
- Ft. Worth
- ■ Houston
- Laredo
- Lubbock
- Lufkin
- Odessa
- Paris
- Pharr
- San Angelo
- San Antonio
- Tyler
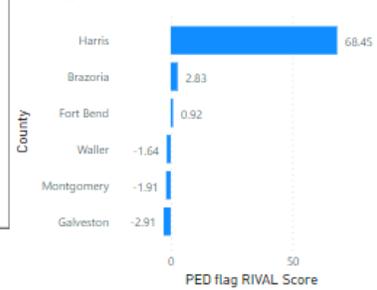- Waco
- Wichita Falls
- Yoakum

County
All ⌄

Number of FY Months
11

County	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
STATEWIDE	2029	1984	136.95

Jurisdiction	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
OUTSIDE CITY LIMITS, Harris	120	144	45.01 🚩
HOUSTON, Harris	287	281	18.89 🚩
PEARLAND, Brazoria	2	5	7.73 🚩
SUGAR LAND, Fort Bend	2	5	7.73 🚩
MISSOURI CITY, Fort Bend	3	6	6.18 🚩
BAYTOWN, Harris	5	8	5.06 ↑
BELLAIRE, Harris	1	2	1.35 →
HOUSTON, Fort Bend	1	2	1.35 →
JACINTO CITY, Harris	1	2	1.35 →
LEAGUE CITY, Galveston	1	2	1.35 →
SOUTH HOUSTON, Harris	1	2	1.35 →
CUT AND SHOOT, Montgomery	0	1	1.00 →
IOWA COLONY, Brazoria	0	1	1.00 →
KEMAH, Galveston	0	1	1.00 →
WEST COLUMBIA, Brazoria	0	1	1.00 →
WILLIS, Montgomery	0	1	1.00 →
ANGLETON, Brazoria	2	3	0.90 →
HUMBLE, Harris	2	3	0.90 →
WEBSTER, Harris	2	3	0.90 →
ALDINE, Harris	0	0	0.00 ↓
Selected Area	**521**	**539**	**71.06**

🚩 ≥ 2X State Average   ↑ > State Average   ⟹ ≤ State Average   ↓ ≤ Zero

Ped flag RIVAL Score by County

PED flag RIVAL Score by County

County	PED flag RIVAL Score
Harris	68.45
Brazoria	2.83
Fort Bend	0.92
Waller	-1.64
Montgomery	-1.91
Galveston	-2.91

7. The areas around the City of Houston in Harris County, Baytown, Bellaire, Jacinto City, South Houston, Humble and Webster are all showing current year numbers that are above the jurisdiction's three-year average.

Pedestrian Involved KA
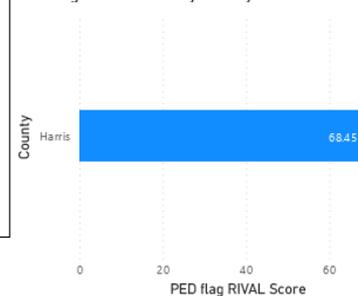
TxDOT District
- ■ Select all
- ■ Houston

County
Harris ⌄

Number of FY Months
11

County	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
STATEWIDE	2029	1984	136.95

Jurisdiction	Avg PED Baseline	YTD PED Crashes	PED flag RIVAL Score
OUTSIDE CITY LIMITS, Harris	120	144	45.01 🚩
HOUSTON, Harris	287	281	18.89 🚩
BAYTOWN, Harris	5	8	5.06 ↑
BELLAIRE, Harris	1	2	1.35 →
JACINTO CITY, Harris	1	2	1.35 →
SOUTH HOUSTON, Harris	1	2	1.35 →
HUMBLE, Harris	2	3	0.90 →
WEBSTER, Harris	2	3	0.90 →
ALDINE, Harris	0		0.00 ↓
ALIEF, Harris	0		0.00 ↓
ATASCOCITA, Harris	0		0.00 ↓
BARRETT, Harris	0	0	0.00 ↓
BUNKER HILL VILLAGE, Harris	0	0	0.00 ↓
CHANNELVIEW, Harris	0	0	0.00 ↓
CLOVERLEAF, Harris	0	0	0.00 ↓
CROSBY, Harris	0	0	0.00 ↓
CYPRESS (HARRIS), Harris	0	0	0.00 ↓
EDINBURG, Harris	0	0	0.00 ↓
EL LAGO, Harris	0	0	0.00 ↓
...ris	0	0	0.00 ↓
Selected Area	436	458	68.45

🚩 ≥ 2X State Average   ↑ > State Average   ⟹ ≤ State Average   ↓ ≤ Zero

Ped flag RIVAL Score by County

PED flag RIVAL Score by County

County	PED flag RIVAL Score
Harris	68.45