ANALYSIS OF CRASHES RESULTING IN A PEDESTRIAN FATALITY OR SERIOUS INJURY

2010-2017

Abstract

Descriptive statistical analysis of Texas crash data involving pedestrians and resulting in a pedestrian fatality or suspected serious injury

The following analysis is based on data from the Texas Department of Transportation's (TxDOT) Crash Record Information System (CRIS). The data was accessed on 11/16/2018. Only crashes that were identified as TxDOT reportable and resulting in a pedestrian fatality or suspected serious injury are included in the analysis. TxDOT reportable is defined as a crash occurring on a public roadway and resulting in death or injury or \$1,000 in damage.

Over the years of 2010 to 2017 there were 3,732,348 crashes in the State of Texas involving 10,023,151 people. Over the eight-year period those crashes involved 44,007 pedestrians and resulted in 4,108 pedestrian fatalities (K) and 8,327 suspected serious injuries (A). Figure 1 illustrates the annual number of pedestrian fatalities and suspected serious injuries. The annual counts of fatalities and injuries create increasing trend lines over the 2010 to 2017 period.

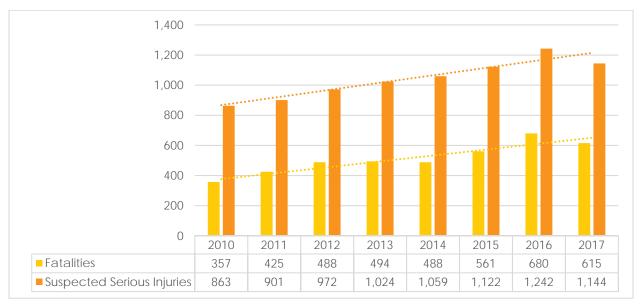


Figure 1: Pedestrian fatalities and suspected serious injuries, 2010-2017

Location

The majority of pedestrian fatalities and incapacitating injuries occur in urban areas. Rural is defined as an area having a population less than 5,000. Figure 2 illustrates the percentage of urban and rural pedestrian fatalities and suspected serious injuries. It is more likely for a pedestrian to be involved in a crash in an urban area simply due to the pedestrian's exposure to and possible interaction with motor vehicles.

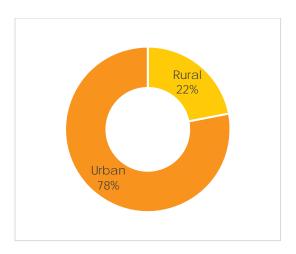


Figure 2: Percentage of fatal and suspected serious injury pedestrian crashes by urban and rural designation, 2010-2017

Areas of larger populations rank higher based on the number of fatal and suspected serious injuries. Table 1 lists the top ten cities/areas with the most number of pedestrian fatalities and suspected serious injuries.

Table 1: Ten cities/areas with the largest number for pedestrian fatalities and suspected serious injuries, 2010-2017 ¹

Rank	City	KA Injuries
1	HOUSTON	1,457
2	DALLAS	1,279
3	SAN ANTONIO	1,106
4	RURAL HARRIS COUNTY	689
5	AUSTIN	604
6	FORT WORTH	563
7	EL PASO	346
8	CORPUS CHRISTI	228
9	ARLINGTON	171
10	LUBBOCK	149

The grouping of fatalities and incapacitating injuries by the roadway system on which the crash occurred indicates that 55% of those crashes occurred on local roads, such as those named as a street, avenue, or boulevard.

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¹ See appendix for a complete listing of cities/areas.

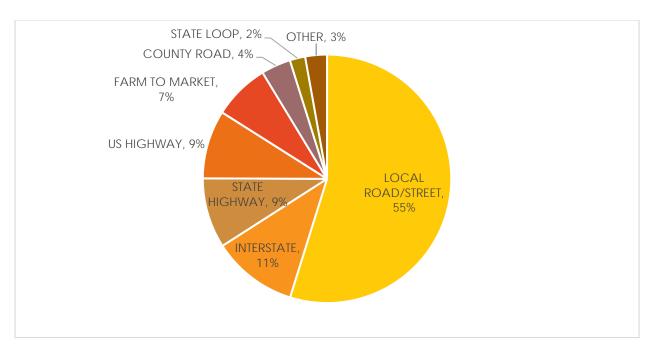


Figure 3: Percentage of pedestrian fatalities and suspected serious injuries by roadway system, 2010-2017

Local roads normally have lower speed limits. The majority, 66%, of the pedestrians killed or seriously injured were involved in crashes on roadways with speed limits between 30 and 45 miles per hour.

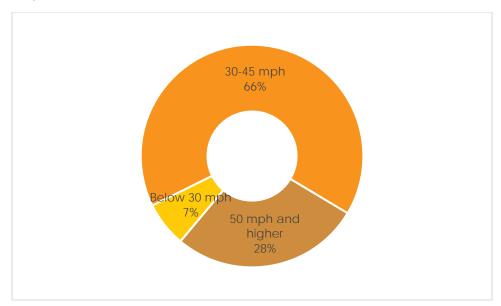


Figure 4: Percentage of pedestrian fatalities and suspected serious injuries by speed limit, 2010-2017

Of the 12,435 pedestrians killed and seriously injured, the reporting officer indicated that 82% (10,192) were in a crash not at an intersection. Based on information appended to the crash report data reviewers classified 69% of the crashes not related to the function of an intersection. Figure 5 illustrates the percentage of rural and urban fatal and suspected serious injury pedestrian crashes classified by the relation to an intersection.

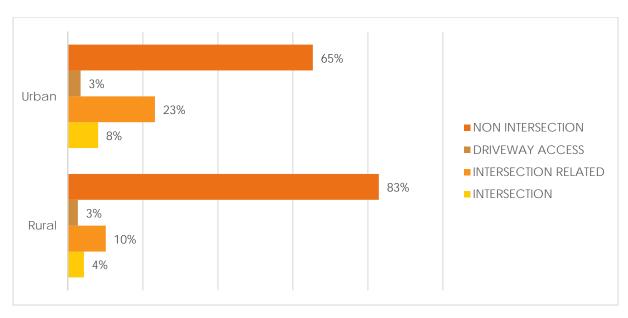


Figure 5: Percentage of pedestrian fatalities and suspected serious injuries by rural/urban classification and relation to an intersection, 2010-2017

For crashes that were classified as intersection or intersection related, 62% were one motor vehicle crashes where the vehicle was traveling in a straight direction.

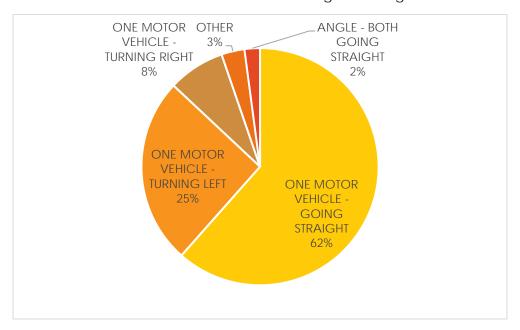


Figure 6: Percentage of pedestrian fatalities and suspected serious injuries in intersection related crashes by manner of collision, 2010-2017

Fatality and Serious Injury Rate

Looking at counties with ten or more pedestrian fatalities or suspected serious injuries, counties with larger populations do not have the highest rate of fatal and suspected serious injuries per 100,000 population.

Table 2: Fatality and suspected serious injury rate for counties with ten or more pedestrian fatalities in suspected serious injuries, 2017

County	Total KA 2010- 2017	KA 2017	Population Estimate (as of July 1) - 2017	2017 KA Rate per 100K Population	Percent of change from 2010 to 2017
Potter	100	22	120,458	18.3	1.44
Liberty	40	10	83,658	12.0	0.67
Bastrop	35	10	84,761	11.8	1.50
Victoria	39	10	92,084	10.9	2.33
Gregg	89	13	123,367	10.5	-0.07
Nueces	260	34	361,221	9.4	0.42
Dallas	1,697	242	2,618,148	9.2	0.52
Smith	107	21	227,727	9.2	1.63
Midland	74	15	165,049	9.1	2.75
Bexar	1,239	168	1,958,578	8.6	0.34
McLennan	148	21	251,259	8.4	0.75
Taylor	62	11	136,290	8.1	0.57
Bell	145	28	347,833	8.0	1.55
Lubbock	174	22	305,225	7.2	-0.12
Galveston	156	24	335,036	7.2	0.33
Travis	664	87	1,226,698	7.1	0.58
Jefferson	143	18	256,299	7.0	0.50
Guadalupe	42	11	159,659	6.9	4.50
Harris	2,323	319	4,652,980	6.9	0.49
Tarrant	939	135	2,054,475	6.6	0.35
El Paso	381	48	840,410	5.7	0.41
Cameron	181	24	423,725	5.7	-0.17
Webb	147	15	274,794	5.5	-0.38
Montgomery	156	28	570,934	4.9	0.56
Williamson	97	19	547,545	3.5	1.71
Denton	163	29	836,210	3.5	1.64
Fort Bend	118	26	764,828	3.4	1.89
Hidalgo	238	25	860,661	2.9	0.25
Brazoria	101	10	362,457	2.8	-0.29
Collin	151	22	969,603	2.3	0.69

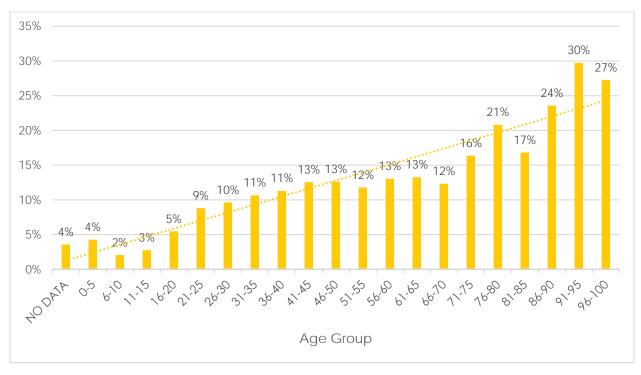
Pedestrian Demographics

There were 12,435 pedestrian fatalities and suspected serious injuries during 2010 to 2017. The majority, 69%, of those pedestrians were male and 31% female. The ages of the pedestrians range from less than one to 100 years old. The age group of 21 to 30 years accounts for 19% of all the pedestrians killed or seriously injured.



Figure 7: Percentage of pedestrian fatalities and suspected serious injuries by age group, 2010-2017

Of the pedestrians in involved in crashes, those in the older age groups were found to have a higher percentage of fatalities.



Pedestrian Behavior

Of the pedestrians killed or serious injured, 39% were not assigned any contributing factors by the reporting officer. The other 61% were assigned a combination of 7,935 contributing factors.

Table 3: Count of contributing factor assigned to a fatal or suspected serious injured pedestrian, 2010-2017

PEDESTRIAN FAILED TO YIELD RIGHT OF WAY TO VEHICLE	Unit Contributing Factor	Fatalities	Suspected Serious Injuries	KA
OTHER (EXPLAIN IN NARRATIVE) 522 877 1,399 UNDER INFLUENCE - ALCOHOL 375 239 614 HAD BEEN DRINKING 138 324 462 UNDER INFLUENCE - DRUG 178 51 229 IMPAIRED VISIBILITY (EXPLAIN IN NARRATIVE) 18 28 46 UNDER INFLUENCE - DRUG 178 51 229 IMPAIRED VISIBILITY (EXPLAIN IN NARRATIVE) 18 28 46 UNDER INFLUENCE - DRUG 178 28 46 ILL (EXPLAIN IN NARRATIVE) 19 24 43 UNDERGARD STOP AND GO SIGNAL 4 28 32 FAILED TO YIELD RIGHT OF WAY - OPEN INTERSECTION 7 23 30 FAILED TO YIELD RIGHT OF WAY - OPEN INTERSECTION 7 12 19 CELL/MOBILE PHONE USE 0 14 14 UNDERGARD STOP SIGN OR LIGHT 3 9 12 FAILED TO YIELD RIGHT OF WAY - STOP SIGN 1 11 12 CELL/MOBILE DEVICE USE - TALKING 5 6 11 ANIMAL ON ROAD - DOMESTIC 4 5 9 FAILED TO YIELD RIGHT OF WAY - TO PEDESTRIAN 3 7 10 ANIMAL ON ROAD - DOMESTIC 4 5 9 FAILED TO YIELD RIGHT OF WAY - PRIVATE DRIVE 1 8 9 CELL/MOBILE DEVICE USE - OTHER 1 8 9 FAULTY EVASIVE ACTION 1 7 8 TAKING MEDICATION (EXPLAIN IN NARRATIVE) 4 3 7 TURNED WHEN UNSAFE 4 6 7 CELL/MOBILE DEVICE USE - UNKNOWN 1 6 7 PARKED AND FAILED TO SET BRAKES 2 4 6 PARKED IN TRAFFIC LANE 6 FAILED TO HEED WARNING SIGN 1 4 5 FAILED TO STOP AT PROPER PLACE 0 3 3 WRONG SIDE - NOT PASSING 0 2 2 PARKED WITHOUT LIGHTS 0 1 1 FAILED TO YIELD RIGHT OF WAY - EMERGENCY VEHICLE 0 1 1 FAILED TO YIELD RIGHT OF WAY - EMERGENCY VEHICLE 0 1 1	PEDESTRIAN FAILED TO YIELD RIGHT OF WAY TO VEHICLE	2,394	3,612	6,006
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				-
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Note 1: The counts in this table are not equivalent to a person. A pedestrian can be assigned more than one contributing factor.

Note 2: Although some contributing factors suggest that they are to be assigned to drivers of motor vehicles, officers do assign them to pedestrians as well.

- Forty-eight percent of the pedestrians were assigned a contributing factor of "pedestrian failed to yield the right of way to vehicle".
- Less than 1% of the fatal or suspected serious injured pedestrians were assigned a contributing factor related to cell phone use.
- Seven pedestrians were killed and 12 seriously injured and assigned a contributing factor of "disabled in traffic lane" which suggest they were unintentional pedestrians (the identification of unintentional pedestrians is difficult without reading the actual crash report).
- There were 1312 occurrences of alcohol or drug related contributing factors being assigned to pedestrians.

Alcohol and drug use by pedestrians was found to be a factor in 39% of the pedestrian fatalities and 7% if the suspected serious injuries. A pedestrian is identified as impaired if they have been assigned a contributing factor of:

- Had been drinking
- Under the influence alcohol
- Under the influence drugs
- Taking medication (explain in narrative)

Or if the pedestrian has a blood alcohol concentration of greater than zero, or a positive alcohol or drug test. Of the 4,108 pedestrians killed 1,600 were impaired

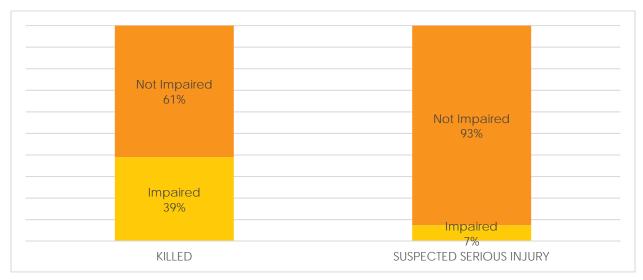


Figure 8: percentage of fatal and suspected seriously injured pedestrians that were impaired, 2010-2017

The average BAC for the fatal and suspected seriously injured pedestrians, with a BAC greater than zero was 0.197. The highest reported BAC was 0.530.

Table 4: Average, minimum and maximum reported BAC for fatal and suspected seriously injured pedestrians, 2010-2017

Injury Severity	Average of BAC Test Results	Min of BAC Test Results	Max of BAC Test Results	Count of BAC Test Results
KILLED	0.197	0.002	0.530	1,082
SUSPECTED SERIOUS INJURY	0.206	0.010	0.370	59
Grand Total	0.197	0.002	0.530	1,141

Crash Environment

The majority, 63%, of fatal and suspected serious injury crashes occur in dark lighting conditions. Officers can classify a crash as occurring in the following dark lighting conditions:

- Dark, lighted
- Dark, not lighted
- Dark, unknown

Table 5 list the count and percentage of pedestrians that were killed or seriously injured by the assigned lighting condition.

Table 5: Count and Percentage of pedestrian fatalities and suspected serious injuries by lighting condition, 2010-2017

Lighting Condition	KA Pedestrians	% of KA Pedestrians
DAWN	119	1.0%
DAYLIGHT	4,224	34.0%
DUSK	196	1.6%
DARK, LIGHTED	4,118	33.1%
DARK, NOT LIGHTED	3,599	28.9%
DARK, UNKNOWN LIGHTING	122	1.0%
OTHER (EXPLAIN IN NARRATIVE)	20	0.2%
UNKNOWN	37	0.3%
Grand Total	12,435	100%

Similarly a larger percentage of pedestrian fatalities occur 6pm and 3am. Combining the hour of day and impairment it was found that impaired have higher percentages during the dark hours.

Table 6: Impaired pedestrian fatalities and suspected serious injuries by hour of the day, 2010-2017

Hour of Day	Not Impaired	Impaired	Total
00:00 - 00:59	3%	7%	4%
01:00 - 01:59	3%	7%	3%
02:00 - 02:59	4%	9%	5%
03:00 - 03:59	2%	4%	3%
04:00 - 04:59	2%	3%	2%
05:00 - 05:59	3%	4%	3%

06:00 - 06:59	4%	3%	4%
07:00 - 07:59	4%	1%	3%
08:00 - 08:59	3%	1%	2%
09:00 - 09:59	2%	0%	2%
10:00 - 10:59	2%	1%	2%
11:00 - 11:59	3%	0%	2%
12:00 - 12:59	3%	1%	3%
13:00 - 13:59	3%	1%	2%
14:00 - 14:59	3%	1%	2%
15:00 - 15:59	4%	1%	4%
16:00 - 16:59	5%	1%	4%
17:00 - 17:59	5%	2%	4%
18:00 - 18:59	8%	5%	8%
19:00 - 19:59	8%	8%	8%
20:00 - 20:59	8%	10%	9%
21:00 - 21:59	8%	13%	9%
22:00 - 22:59	6%	10%	7%
23:00 - 23:59	4%	9%	5%
Grand Total	100%	100%	100%

Summary

In 2017 there was an eight percent reduction in pedestrian fatalities and suspected serious injuries as compared to 2016. Cities with larger populations, Houston, Dallas and San Antonio are the locations of the larger quantities of pedestrian fatalities and suspected serious injuries. Using the rate per population and/or the percent of change over the 2010 to 2017 time period, it appears as though counties with growing industry and/or development have a higher intensity of pedestrian fatalities and suspected serious injuries.

Pedestrian crashes are more likely to involve only one motor vehicle and the majority are not intersection related. Sixty-six percent of the pedestrians were killed or injured on roadways with speed limits between 30 and 45 miles per hour. Almost 50% of the fatal or suspected seriously injured pedestrians were identified, by law enforcement, as failing to yield the right of way to a vehicle.

Pedestrians in older age groups are likely to incur more severe injuries. A majority (63%) of the crashes that resulted in a pedestrian fatality or suspected serious injury occurred in dark conditions.

Sixty-one percent of the pedestrians killed can be classified as being impaired due to alcohol or drug use and had an average BAC of .0197.

Appendix

Table 7: Ranking of cities/areas with pedestrian fatalities and suspected serious injuries

Rank	City	KA
4	HOUSTON	Injuries
2	HOUSTON DALLAS	1,457
		1,279
3	SAN ANTONIO	1,106
4	RURAL HARRIS COUNTY	689
5	AUSTIN	604
6	FORT WORTH	563
7	EL PASO	346
8	CORPUS CHRISTI	228
9	ARLINGTON	171
10	LUBBOCK	149
11	LAREDO	141
12	AMARILLO	112
13	RURAL MONTGOMERY COUNTY	106
14	GARLAND	95
15	BROWNSVILLE	93
15	WACO	93
17	IRVING	79
18	BEAUMONT	74
18	RURAL HIDALGO COUNTY	74
20	TYLER	68
21	KILLEEN	66
22	ODESSA	64
22	RURAL FORT BEND COUNTY	64
24	MCALLEN	63
25	LONGVIEW	60
25	RURAL BEXAR COUNTY	60
27	MIDLAND	58
28	MESQUITE	57
29	ABILENE	55
29	BAYTOWN	55
29	DENTON	55
29	GRAND PRAIRIE	55
29	RURAL TRAVIS COUNTY	55
34	GALVESTON	53
35	PLANO	52
36	SAN MARCOS	51
37	LEWISVILLE	48
37	PASADENA	48
39	HARLINGEN	40
39	RICHARDSON	40
41	PORT ARTHUR	39

Rank	City	KA Injuries
41	SAN ANGELO	39
43	BRYAN	37
44	RURAL BRAZORIA COUNTY	36
45	COLLEGE STATION	35
45	CONROE	35
45	RURAL SMITH COUNTY	35
48	MCKINNEY	33
48	TEMPLE	33
50	NEW BRAUNFELS	32
50	RURAL ECTOR COUNTY	32
52	ORANGE	31
53	TEXAS CITY	30
54	RURAL CAMERON COUNTY	29
55	RURAL GALVESTON COUNTY	27
56	VICTORIA	26
56	WICHITA FALLS	26
58	GREENVILLE	25
58	RURAL BASTROP COUNTY	25
60	CARROLLTON	24
60	PHARR	24
62	BELLMEAD	23
62	EDINBURG	23
62	LANCASTER	23
65	HURST	22
65	ROUND ROCK	22
65	RURAL JEFFERSON COUNTY	22
65	SHERMAN	22
69	MARSHALL	21
70	HALTOM CITY	20
70	NORTH RICHLAND HILLS	20
70	RURAL GREGG COUNTY	20
70	RURAL LIBERTY COUNTY	20
70	WAXAHACHIE	20
75	RURAL EL PASO COUNTY	19
75	RURAL WILLIAMSON COUNTY	19
75	TEXARKANA	19
75	WESLACO	19
79	RURAL BELL COUNTY	18
79	RURAL CHAMBERS COUNTY	18
79	RURAL LUBBOCK COUNTY	18
82	CLEBURNE	17
82	LUFKIN	17
82	NACOGDOCHES	17
82	RURAL BOWIE COUNTY	17

Rank	City	KA Injuries
82	RURAL HUNT COUNTY	17
87	CONVERSE	16
87	HUMBLE	16
87	KERRVILLE	16
87	PEARLAND	16
87	RURAL COMAL COUNTY	16
87	SAN BENITO	16
93	BALCH SPRINGS	15
93	DUMAS	15
93	EULESS	15
93	HARKER HEIGHTS	15
93	PARIS	15
93	RURAL MCLENNAN COUNTY	15
93	RURAL MIDLAND COUNTY	15
93	RURAL ORANGE COUNTY	15
101	ALLEN	14
101	ALVIN	14
101	BEDFORD	14
101	COPPERAS COVE	14
101	GRAPEVINE	14
101	LA MARQUE	14
101	LEAGUE CITY	14
101	MISSION	14
101	RURAL ELLIS COUNTY	14
101	RURAL MEDINA COUNTY	14
101	RURAL STARR COUNTY	14
101	RURAL WALLER COUNTY	14
113	BALCONES HEIGHTS	13
113	BIG SPRING	13
113	DENISON	13
113	HUNTSVILLE	13
113	ROBSTOWN	13
113	RURAL COLLIN COUNTY	13
113	RURAL HAYS COUNTY	13
113	RURAL KAUFMAN COUNTY	13
113	RURAL RUSK COUNTY	13
113	RURAL SAN PATRICIO COUNTY	13
113	RURAL VICTORIA COUNTY	13
113	SCHERTZ	13
113	SEGUIN	13
113	WEBSTER	13
127	CEDAR HILL	12
127	DUNCANVILLE	12
127	MINERAL WELLS	12
127	RURAL HARRISON COUNTY	12
127	SUGAR LAND	12

132 G/ 132 GI 132 KI 132 KI	LICE AINESVILLE EORGETOWN ELLER NGSVILLE AKE WORTH	Injuries
132 G/ 132 GI 132 KI 132 KI	AINESVILLE EORGETOWN ELLER NGSVILLE	11 11 11
132 GI 132 KI 132 KI	EORGETOWN ELLER NGSVILLE	11
132 KE	ELLER NGSVILLE	11
132 KI	NGSVILLE	
-		
	AKE WORTH	11
		11
	CHMOND	11
	JRAL ATASCOSA DUNTY	11
	JRAL CORYELL COUNTY	11
	JRAL HILL COUNTY	11
	JRAL NACOGDOCHES DUNTY	11
132 RI	JRAL PARKER COUNTY	11
132 RI	JRAL POLK COUNTY	11
_	JRAL VAN ZANDT DUNTY	11
146 Bl	JRLESON	10
146 CE	EDAR PARK	10
146 DE	EL RIO	10
146 LA	PORTE	10
146 LA	AKE JACKSON	10
146 LE	ON VALLEY	10
146 LI	TTLE ELM	10
146 LI	VINGSTON	10
146 RI	JRAL BROOKS COUNTY	10
146 RI	JRAL GRAYSON COUNTY	10
146 RI	JRAL JOHNSON COUNTY	10
	JRAL MATAGORDA DUNTY	10
	JRAL RANDALL COUNTY	10
	JRAL SAN JACINTO DUNTY	10
146 RI	JRAL WILSON COUNTY	10
146 VI	DOR	10
162 AE	DDISON	9
162 DA	AYTON	9
162 KY	/LE	9
162 MI	ISSOURI CITY	9
162 M	OUNT PLEASANT	9
162 PL	AINVIEW	9
162 R	OCKPORT	9
	JRAL COLORADO DUNTY	9
162 RI	JRAL COOKE COUNTY	9
	JRAL GUADALUPE DUNTY	9
	JRAL NUECES COUNTY	9
	JRAL WASHINGTON DUNTY	9

Rank	City	KA Injuries
162	SAGINAW	9
162	SOUTH HOUSTON	9
162	TAYLOR	9
162	TERRELL	9
162	WEATHERFORD	9
179	ARANSAS PASS	8
179	BAY CITY	8
179	BELTON	8
179	BROWNWOOD	8
179	CIBOLO	8
179	DESOTO	8
179	FOREST HILL (TARRANT)	8
179	MANSFIELD	8
179	PORT ARANSAS	8
179	RURAL ANGELINA COUNTY	8
179	RURAL CALDWELL COUNTY	8
179	RURAL FAYETTE COUNTY	8
179	RURAL HOWARD COUNTY	8
179	RURAL JASPER COUNTY	8
179	RURAL KENDALL COUNTY	8
179	RURAL MARTIN COUNTY	8
179	RURAL PALO PINTO	8
	COUNTY	
179	RURAL TARRANT COUNTY	8
179	WILLIS	8
198	ALAMO	7
198	ENNIS	7
198	FARMERS BRANCH	7
198	FRIENDSWOOD	7
198	GIDDINGS	7
198	JACKSONVILLE	7
198	PALESTINE	7
198	PAMPA	7
198	ROCKWALL	7
198	ROSENBERG	7
198	ROWLETT	7
198	RURAL DENTON COUNTY	7
198	RURAL EASTLAND COUNTY	7
198	RURAL GRIMES COUNTY	7
198	RURAL HARDIN COUNTY	7
198	RURAL HOPKINS COUNTY	7
198	RURAL HUDSPETH COUNTY	7
198	RURAL LIVE OAK COUNTY	7
198	RURAL MOORE COUNTY	7
198	RURAL PECOS COUNTY	7
198	RURAL POTTER COUNTY	7

Rank	City	KA
	-	Injuries
198	RURAL WALKER COUNTY	7
198	RURAL WISE COUNTY	7
198	SACHSE	7
198	SOCORRO	7
198	STEPHENVILLE	7
198	SULPHUR SPRINGS	7
225	ANGLETON	6
225	BORGER	6
225	DEER PARK	6
225	DONNA	6
225	EAGLE PASS	6
225	FREEPORT (BRAZORIA)	6
225	FRISCO	6
225	HEARNE	6
225	MARBLE FALLS	6
225	NAVASOTA	6
225	PLEASANTON	6
225	RURAL AUSTIN COUNTY	6
225	RURAL BANDERA COUNTY	6
225	RURAL BEE COUNTY	6
225	RURAL CLAY COUNTY	6
225	RURAL DUVAL COUNTY	6
225	RURAL FREESTONE COUNTY	6
225	RURAL HENDERSON COUNTY	6
225	RURAL HOUSTON COUNTY	6
225	RURAL JIM WELLS COUNTY	6
225	RURAL KARNES COUNTY	6
225	RURAL MARION COUNTY	6
225	RURAL REEVES COUNTY	6
225	RURAL WEBB COUNTY	6
225	RURAL WHARTON COUNTY	6
225	RURAL WILLACY COUNTY	6
225	THRALL	6
225	TOMBALL	6
253	AZLE	5
253	BASTROP	5
253	BELLAIRE	5
253	BOERNE	5
253	BROOKSHIRE	5
253	BURNET	5
253	CASTLE HILLS	5
253	CLEVELAND	5
253	CORRIGAN	5
253	CORSICANA	5
253	CROCKETT	5
253	DECATUR	5
1		

Rank	City	KA Injuries
253	DICKINSON	5
253	FATE	5
253	FREDERICKSBURG	5
253	GATESVILLE	5
253	GRANBURY	5
253	GUN BARREL CITY	5
253	HITCHCOCK	5
253	JARRELL	5
253	KATY	5
253	KIRBY	5
253	LEANDER	5
253	LOCKHART	5
253	LUMBERTON	5
253	MEXIA	5
253	RURAL ANDERSON COUNTY	5
253	RURAL BURLESON COUNTY	5
253	RURAL BURNET COUNTY	5
253	RURAL GARZA COUNTY	5
253	RURAL GILLESPIE COUNTY	5
253	RURAL GONZALES COUNTY	5
253	RURAL KERR COUNTY	5
253	RURAL LAMAR COUNTY	5
253	RURAL MAVERICK COUNTY	5
253	RURAL RAINS COUNTY	5
253	RURAL TAYLOR COUNTY	5
253	RURAL UPSHUR COUNTY	5
253	RURAL UVALDE COUNTY	5
253	RURAL ZAPATA COUNTY	5
253	SEAGOVILLE	5
253	STAFFORD	5
253	THE COLONY	5
253	UVALDE	5
253	WYLIE	5
298	ANNA	4
298	BEEVILLE	4
298	BENBROOK	4
298	BOWIE	4
298	BRENHAM	4
298	BRIDGE CITY	4
298	COPPELL	4
298	ELGIN	4
298	FLOWER MOUND	4
298	GILMER	4
298	HILLSBORO	4
298	HORIZON CITY	4

Rank	City	KA
298	HUTTO	Injuries 4
298	JASPER	4
298	KILGORE	4
	LACY-LAKEVIEW	4
298 298	LEVELLAND	4
298	MARLIN	4
298	NASH (BOWIE)	4
298	PERRYTON	4
298	PFLUGERVILLE	4
298	PORT LAVACA	4
298	PORTLAND	4
298	ROBINSON	4
298	RURAL ARANSAS COUNTY	4
298	RURAL BRAZOS COUNTY	4
298	RURAL CAMP COUNTY	4
298	RURAL CHEROKEE COUNTY	4
298	RURAL ERATH COUNTY	4
298	RURAL FALLS COUNTY	4
298	RURAL HOOD COUNTY	4
298	RURAL KENEDY COUNTY	4
298	RURAL LA SALLE COUNTY	4
298	RURAL LEE COUNTY	4
298	RURAL MADISON COUNTY	4
298	RURAL MORRIS COUNTY	4
298	RURAL NAVARRO COUNTY	4
298	RURAL NEWTON COUNTY	4
298	RURAL OLDHAM COUNTY	4
298	RURAL PANOLA COUNTY	4
298	RURAL REFUGIO COUNTY	4
298	RURAL SAN AUGUSTINE	4
	COUNTY	
298	RURAL SHELBY COUNTY	4
298	RURAL TOM GREEN COUNTY	4
298	RURAL TYLER COUNTY	4
298	SEABROOK	4
298	SELMA	4
298	SEMINOLE	4
298	SLATON	4
298	UNIVERSAL CITY	4
298	WATAUGA	4
298	WINNSBORO	4
350	ATHENS	3
350	ATLANTA	3
350	BANDERA	3
350	BIG WELLS	3
350	BRECKENRIDGE	3

Rank	City	KA
350	CANYON	Injuries 3
350	CLARKSVILLE CITY	3
350	CLUTE	3
350	COLLEYVILLE	3
350	DIBOLL	3
350	EAGLE LAKE	3
350	EDNA	3
350	EL CAMPO	3
350	FORT STOCKTON	3
350	GONZALES	3
350	HENDERSON	3
350	HIGHLAND PARK	3
350	HIGHLAND VILLAGE	3
350	INGLESIDE	3
350	INGRAM	3
350	ITALY	3
350	JOURDANTON	3
350	KEENE	3
350	LINDALE	3
350	LIVE OAK	3
350	LYTLE	3
350	MANVEL	3
350	MINEOLA	3
350	MURPHY	3
350	NEDERLAND	3
350	NEW BOSTON	3
350	PITTSBURG	3
350	PORT NECHES	3
350	RED OAK	3
350	ROANOKE	3
350	RURAL CARSON COUNTY	3
350	RURAL CULBERSON COUNTY	3
350	RURAL DALLAS COUNTY	3
350	RURAL FANNIN COUNTY	3
350	RURAL FRIO COUNTY	3
350	RURAL KIMBLE COUNTY	3
350	RURAL KLEBERG COUNTY	3
350	RURAL LAVACA COUNTY	3
350	RURAL LLANO COUNTY	3
350	RURAL NOLAN COUNTY	3
350	RURAL TRINITY COUNTY	3
350	RURAL WARD COUNTY	3
350	RURAL WICHITA COUNTY	3
350	RURAL WOOD COUNTY	3
350	SINTON	3
350	TULIA	3

350 UNIVERSITY PARK 350 WESTLAKE 350 WHITE SETTLEMENT 404 ALPINE 404 AMES (LIBERTY) 404 ANDREWS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE 404 FARMERSVILLE	
350 WESTLAKE 350 WHITE SETTLEMENT 404 ALPINE 404 AMES (LIBERTY) 404 ANDREWS 404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CANUTILLO 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	3
350 WHITE SETTLEMENT 404 ALPINE 404 AMES (LIBERTY) 404 ANDREWS 404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CEIINA 404 CENTER (SHELBY) 404 CARKSVILLE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	3
404 ALPINE 404 AMES (LIBERTY) 404 ANDREWS 404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	3
404 AMES (LIBERTY) 404 ANDREWS 404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 ANDREWS 404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 ANGUS 404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 ANTHONY (EL PASO) 404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 ARCOLA 404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BEE CAVE 404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BISHOP 404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BRIDGEPORT 404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BRUCEVILLE-EDDY 404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CELINA 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BUCKHOLTS 404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BULVERDE 404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 BURKBURNETT 404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 CACTUS 404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	
404 CANUTILLO 404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 CARTHAGE 404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 CELINA 404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	
404 CENTER (SHELBY) 404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 CLARKSVILLE 404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 COMMERCE 404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 CORINTH (DENTON) 404 DALHART 404 DEVINE	2
404 DALHART 404 DEVINE	2
404 DEVINE	2
	2
404 FARMERSVILLE	2
	2
404 FERRIS	2
404 FLORESVILLE	2
404 FREER	2
404 FRIONA	2
404 FULTON	2
404 GLENN HEIGHTS	2
404 GOLDTHWAITE	2
404 GRAPELAND	2
404 GROESBECK	2
404 GROVES	2
404 HALLSVILLE	2
404 HELOTES	2
404 HENRIETTA	2
404 HEWITT	2
404 HIDALGO	2
404 HONDO	2
404 HUTCHINS	2
404 JERSEY VILLAGE	2
404 KEMP	2
404 KENEDY	2

Rank	City	KA Injuries
404	LAMPASAS	2
404	LIBERTY (LIBERTY)	2
404	LLANO	2
404	LULING	2
404	LYFORD	2
404	MADISONVILLE	2
404	MERKEL	2
404	MIDLOTHIAN	2
404	NEWTON	2
404	NIEDERWALD	2
404	NOLANVILLE	2
404	OAK RIDGE NORTH	2
404	OLD RIVER-WINFREE	2
404	PANTEGO	2
404	PECOS	2
404	PINE ISLAND (WALLER)	2
404	PLEAK	2
404	PORT ISABEL	2
404	QUANAH	2
404	RICHLAND HILLS	2
404	ROCKDALE	2
404	ROSE CITY	2
404	ROYSE CITY	2
404	RURAL ARMSTRONG COUNTY	2
404	RURAL BAYLOR COUNTY	2
404	RURAL BOSQUE COUNTY	2
404	RURAL BROWN COUNTY	2
404	RURAL CALHOUN COUNTY	2
404	RURAL CALLAHAN COUNTY	2
404	RURAL CRANE COUNTY	2
404	RURAL DONLEY COUNTY	2
404	RURAL GLASSCOCK COUNTY	2
404	RURAL GOLIAD COUNTY	2
404	RURAL GRAY COUNTY	2
404	RURAL HALE COUNTY	2
404	RURAL HOCKLEY COUNTY	2
404	RURAL HUTCHINSON COUNTY	2
404	RURAL JONES COUNTY	2
404	RURAL LAMPASAS COUNTY	2
404	RURAL LEON COUNTY	2
404	RURAL LIMESTONE COUNTY	2
404	RURAL LYNN COUNTY	2
404	RURAL MCMULLEN COUNTY	2

Rank	City	KA
	·	Injuries
404	RURAL MILAM COUNTY	2
404	RURAL RED RIVER COUNTY	2
404	RURAL RUNNELS COUNTY	2
404	RURAL SCURRY COUNTY	2
404	RURAL TITUS COUNTY	2
404	RURAL YOUNG COUNTY	2
404	RUSK	2
404	SAN SABA	2
404	SANDY POINT	2
404	SANTA FE	2
404	SEALY	2
404	SNYDER	2
404	SOUTHLAKE	2
404	STOCKDALE	2
404	SWEETWATER	2
404	TAFT	2
404	TOOL	2
404	TRINITY	2
404	TROY	2
404	VALLEY VIEW (COOKE)	2
404	VENUS	2
404	WASKOM	2
404	WEIMAR	2
404	WEST UNIVERSITY PLACE	2
404	WHARTON	2
404	WHITE OAK (GREGG)	2
404	WHITNEY	2
404	WINDCREST	2
404	WOLFFORTH	2
520	ALAMO HEIGHTS	1
520	ALBA	1
520	ALEDO	1
520	ALVARADO	1
520	ANAHUAC	1
520	ANSON	1
520	AURORA (WISE)	1
520	BAIRD	1
520	BALLINGER	1
520	BELLS	1
520	BELLVILLE	1
520	BLUE RIDGE	1
520	BONHAM	1
520	BREMOND	1
520	BROWNFIELD	1
520	BUDA	1
520	BURKE	1

Rank	City	KA Injuries
520	CADDO MILLS	1
520	CALDWELL	1
520	CANTON	1
520	CARL'S CORNER	1
520	CARRIZO SPRINGS	1
520	CHINA GROVE (BEXAR)	1
520	CLIFTON	1
520	CLINT	1
520	CLYDE	1
520	COLDSPRING	1
520	COLEMAN	1
520	COLORADO CITY	1
520	COLUMBUS	1
520	COOL	1
520	COOPER (DELTA)	1
520	COVE	1
520	CROSS PLAINS	1
520	CROWLEY	1
520	CUERO	1
520	CUMBY	1
520	CUT AND SHOOT	1
520	DILLEY	1
520	DIMMITT	1
520	DRIPPING SPRINGS	1
520	EAST MOUNTAIN	1
520	ECTOR	1
520	EDOM	1
520	EL LAGO	1
520	ELDORADO	1
520	ENCINAL	1
520	EUREKA (NAVARRO)	1
520	EVANT	1
520	FALFURRIAS	1
520	FORNEY	1
520	FRITCH	1
520	GALENA PARK	1
520	GANADO	1
520	GLADEWATER	1
520	GLEN ROSE	1
520	GOLINDA	1
520	GOODRICH	1
520	GRAND SALINE	1
520	GREY FOREST	1
520	HALE CENTER	1
520	HAMILTON (HAMILTON)	1
520	HARDIN	1
520	HASLET	1

Rank	City	KA Injuries
520	HEMPSTEAD	1
520	HEREFORD	1
520	HICKORY CREEK	1
520	HILL COUNTRY VILLAGE	1
520	HOOKS	1
520	HOWE	1
520	HUDSON	1
520	HUNTERS CREEK VILLAGE	1
520	HUNTINGTON	1
520	IDALOU	1
520	IOWA COLONY	1
520	IOWA PARK	1
520	ITASCA	1
520	JACINTO CITY	1
520	JAMAICA BEACH	1
520	JEFFERSON	1
520	JOLLY	1
520	JONES CREEK	1
520	JONESTOWN	1
520	JOSHUA	1
	KAUFMAN	
520		1
520	KEMAH	1
520	KENEFICK	1
520	KOUNTZE	1
520	LA FERIA	1
520	LA GRANGE	1
520	LA JOYA	1
520	LA VERNIA	1
520	LADONIA	1
520	LAGO VISTA	1
520	LAKE DALLAS	1
520	LAMESA	1
520	LATEXO	1
520	LEARY	1
520	LEONARD	1
520	LORENA	1
520	LORENZO	1
520	LUCAS	1
520	MAGNOLIA	1
520	(MONTGOMERY) MANOR	1
520	MARFA	1
520	MASON	1
	MAUD	1
520		1
520	MCGREGOR MCLENDON-CHISHOLM	1
520	MEADOWS PLACE	1
520	IVIEADOVVS PLACE	

Rank	City	KA Injuries
520	MELISSA	1
520	MERCEDES	1
520	MERTZON	1
520	MONT BELVIEU	1
520	MOODY	1
520	MOUNT VERNON (FRANKLIN)	1
520	MURCHISON	1
520	MUSTANG RIDGE	1
520	NASSAU BAY	1
520	NATALIA	1
520	NEW SUMMERFIELD	1
520	NEYLANDVILLE	1
520	NIXON	1
520	NOONDAY	1
520	NORTHLAKE	1
520	OAK GROVE (KAUFMAN)	1
520	OAK RIDGE (KAUFMAN)	1
520	OLMOS PARK	1
520	ONALASKA	1
520	ORANGE GROVE	1
520	PALMER	1
520	PALMHURST	1
520	PALMVIEW	1
520	PATTISON	1
520	PAYNE SPRINGS	1
520	PINEHURST (ORANGE)	1
520	POST	1
520	POTH	1
520	POTTSBORO	1
520	PRAIRIE VIEW	1
520	PROVIDENCE (DENTON)	1
520	QUINLAN	1
520	RANKIN (UPTON)	1
520	RAYMONDVILLE	1
520	RENO (PARKER, TARRANT)	1
520	RICE	1
520	RIESEL	1
520	ROGERS (BELL)	1
520	ROMA	1
520	RUNGE	1
520	RURAL ANDREWS COUNTY	1
520	RURAL ARCHER COUNTY	1
520	RURAL BLANCO COUNTY	1
520	RURAL CASS COUNTY	1
520	RURAL CASTRO COUNTY	1
520	RURAL CHILDRESS	1
	COUNTY	

Rank	City	KA
	-	Injuries
520	RURAL COLEMAN COUNTY	1
520	RURAL COLLINGSWORTH COUNTY	1
520	RURAL COMANCHE COUNTY	1
520	RURAL DALLAM COUNTY	1
520	RURAL DEAF SMITH COUNTY	1
520	RURAL DIMMIT COUNTY	1
520	RURAL FLOYD COUNTY	1
520	RURAL HAMILTON COUNTY	1
520	RURAL HANSFORD COUNTY	1
520	RURAL HARDEMAN COUNTY	1
520	RURAL HASKELL COUNTY	1
520	RURAL JACK COUNTY	1
520	RURAL JEFF DAVIS COUNTY	1
520	RURAL MILLS COUNTY	1
520	RURAL MITCHELL COUNTY	1
520	RURAL MONTAGUE COUNTY	1
520	RURAL PARMER COUNTY	1
520	RURAL REAL COUNTY	1
520	RURAL ROCKWALL COUNTY	1
520	RURAL SOMERVELL COUNTY	1
520	RURAL STERLING COUNTY	1
520	RURAL STONEWALL COUNTY	1
520	RURAL SUTTON COUNTY	1
520	RURAL SWISHER COUNTY	1
520	RURAL TERRELL COUNTY	1
520	RURAL WHEELER COUNTY	1
520	RURAL WILBARGER COUNTY	1
520	RURAL YOAKUM COUNTY	1
520	SAN AUGUSTINE	1
520	SANSOM PARK	1
520	SCHULENBURG	1
520	SCOTLAND	1
520	SHADY SHORES	1
520	SHAMROCK	1
520	SHAVANO PARK	1
520	SHENANDOAH	1
520	SHEPHERD	1
520	SHINER	1
520	SILSBEE	1
520	SMITHVILLE	1
	<u> </u>	<u> </u>

Rank	City	KA
500	010/50	Injuries
520	SMYER	1
520	SNOOK	1
520	SOMERSET	1
520	SOUTHMAYD	1
520	SOUTHSIDE PLACE	1
520	SPRING VALLEY (HARRIS)	1
520	SULLIVAN CITY	1
520	SUNNYVALE	1
520	SUNRAY	1
520	SUNSET VALLEY	1
520	SURFSIDE BEACH	1
520	SWEENY	1
520	TALTY	1
520	TENAHA	1
520	TERRELL HILLS	1
520	THORNTONVILLE	1
520	THREE RIVERS	1
520	TOLAR	1
520	TOYAH	1
520	TRENTON	1
520	TURKEY	1
520	UHLAND	1
520	UNION GROVE (UPSHUR)	1
520	VALLEY MILLS	1
520	VAN	1
520	VERNON	1
520	VON ORMY	1
520	WAKE VILLAGE	1
520	WEST COLUMBIA	1
520	WEST ORANGE	1
520	WEST TAWAKONI	1
520	WESTWORTH VILLAGE	1
520	WHITESBORO	1
520	WILLOW PARK	1
520	WOODWAY	1
520	WORTHAM	1
520	YOAKUM	1
520	YORKTOWN	1