



Technical Memorandum
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Project Overview

In fiscal year (FY) 2023, the Texas A&M Transportation Institute (TTI) received a Texas Department of Transportation (TxDOT) traffic safety grant to continue motorcycle safety efforts focused on encouraging unlicensed riders to pursue training and receipt of a motorcycle license (Class M). By completing motorcycle safety training, riders learn the minimum level of riding knowledge and skill needed to obtain a Class M in Texas.

Previous motorcycle crash analyses from FY 2019 to FY 2022 revealed that a substantial proportion of motorcycle operators killed in crashes on public roadways in Texas did not have a valid Class M at the time of the crash, a data trend that appeared to be increasing. The FY 2020 project developed a postcard mailout campaign to address this urgent transportation safety need. Potential riders who had a motorcycle registered in the State but did not have a Class M were mailed a postcard about how to obtain a Class M. The postcard mailout was based on a very successful initiative in Michigan called *Shadow Rider*, which demonstrated a 50% decrease in unendorsed riders since the campaign began in 2013. Like Texas, Michigan requires riders to complete a motorcycle safety training course before obtaining their motorcycle endorsement. Although completing a motorcycle safety training course will not necessarily prevent crash involvement, all riders should be alert and aware of the risks associated with riding, which are topics covered in training.

The individuals targeted for the postcard mailout in Texas in FY 2020, FY 2021, and FY 2022 were identified through a data linkage process involving Texas Department of Public Safety (TxDPS) driver license and Texas Department of Motor Vehicle (TxDMV) vehicle registration data. The postcard mailout was distributed via USPS in August of 2020, 2021, and 2022.

FY 2023 Linkage Process

In FY 2023, TTI conducted data linkage between the registration and licensing datasets. The process was similar to that in previous fiscal years. Specifically, TTI worked with TxDPS to acquire a driver's license file of individuals with a valid Class M. The motorcycle licensing data contained 1,071,660 records, including individuals holding a Class CM license (N=949,417 records)¹ and individuals holding a Class AM², BM³, or only M license (N=122,243 records).

¹ Class C License authorizes an individual to drive: *Any vehicle or combination of vehicles that is not a Class A or Class B if the vehicle is (1) designed to transport 16 to 23 passengers including the driver; or (2) used in the transportation of hazardous materials that require the vehicle to be placarded under 49 CFR, Part 172, Subpart F*, as defined in the Texas Commercial Motor Vehicle Drivers Handbook, <https://www.dps.texas.gov/internetforms/Forms/DL-7C.pdf>.

² Class A License authorizes an individual to drive: *(1) Single vehicle with a gross vehicle weight rating (GVWR) of 26,001 pounds or more (2) A combination of vehicles with a GCWR of 26,001 pounds or more provided the GVWR of the vehicle(s) towed is in excess of 10,000 pounds*, as defined in the Texas Commercial Motor Vehicle Drivers Handbook, <https://www.dps.texas.gov/internetforms/Forms/DL-7C.pdf>.

³ Class B License authorizes an individual to drive: *(1) Single vehicle with a GVWR of 26,001 pounds or more (2) Single vehicle with a GVWR of 26,001 pounds or more that is towing a vehicle with a GVWR that does not exceed 10,000 pounds or a farm trailer with a GVWR that does not exceed 20,000 pounds (3) A bus with a seating capacity*

TTI also worked with the TxDMV to obtain a data file containing Texas motorcycle registrations. The raw data included 344,041 records—the motorcycle registration file contained far fewer records than the number included in the licensing data file. One reason for the smaller number of records is that people may likely maintain their Class M once they earn it. For example, a rider could get the Class M as a young adult and have a motorcycle at that time. Later in life, the rider no longer owns a motorcycle, but may still maintain their Class M to continue to ride motorcycles in the future. Another issue with the motorcycle registration records is that one individual can own multiple motorcycles. All license and registration data received was for the 2022 calendar year.

TTI instituted an iterative linkage process to identify individuals with a registered motorcycle but did *not* have a record for a Class M license. At the completion of the linkage process, the total number of unmatched, unique registration records was 84,343, of which 57,179 did not appear in FY 2022 mailing list. The 84,343 records will form the basis of the postcard mailout campaign for FY 2023 and future evaluations.

Evaluation Method for FY 2021 Postcard Mailing Campaign Utilizing an Extended Timeframe

Historically, TTI would examine the postcard reminder mailing campaign from the immediate previous year. For example, in FY 2022, TTI sought to ascertain the extent to which individuals who were mailed a postcard in FY 2021 had a Class M in FY 2022 by evaluating the FY 2021 mailing list—for postcards mailed in August 2021—against the 2021 license data.

This year, TTI adopted a modified approach. Instead of assessing the FY 2022 mailing information—for postcards mailed in August 2022—TTI opted to re-evaluate the FY 2021 campaign by comparing it to the 2022 license data. This change extended the review period from the original four months (September 2021 to December 2021) to 16 months (September 2021 to December 2022). The analysis is valuable because an increase in the proportion of individuals previously without a Class M who subsequently had a Class M acts as an indicator of the mailout outreach program's effectiveness. The extended evaluation period accommodates individuals who took more time to acquire a Class M license after receiving the postcards, enhancing the comprehensiveness of the assessment. This modified approach was not able to be conducted previously as the matching process prior to FY 2021 was completed via “hard” data matching as opposed to the geocoding in subsequent years.

Table 1 lists the iterative linkage algorithms for answering the research question of how many of the 70,416 individuals/addresses targeted for the mailout in FY 2021 were subsequently associated with a person who had a Class M in FY 2023. In FY 2023, TTI adopted a linkage approach based on coding the geographical coordinates for the address fields in the datasets, and the approach is consistent with that used in FY 2022—latitude and longitude are represented by Lat&Long in the table.

of 24 passengers or more including the driver, as defined in the Texas Commercial Motor Vehicle Drivers Handbook, <https://www.dps.texas.gov/internetforms/Forms/DL-7C.pdf>.

Table 1. Iterative Linkage Algorithm for the Project Evaluation.

Matching Result	Criteria
A1	FirstName + MiddleName + LastName + FullAddress + Zip
A2	FirstName + MiddleName + LastName + Lat&Long
A3	FirstName + LastName + FullAddress + Zip
A4	FirstName + LastName + Lat&Long
B1	FirstNameInitial + MiddleNameInitial + LastNameInitial + FullAddress + Zip
B2	FirstNameInitial + MiddleNameInitial + LastNameInitial + Lat&Long
B3	FirstNameInitial + LastNameInitial + FullAddress + Zip
B4	FirstNameInitial + LastNameInitial + Lat&Long
C1	LastName + FullAddress + Zip
C2	LastName + Lat&Long
C3	LastNameInitial + FullAddress + Zip
C4	LastNameInitial + Lat&Long
D1	FullAddress + Zip
D2	Lat&Long
F	No Match

Given the extended evaluation timeframe utilized in FY 2023, there has been a notable increase in motorcycle records matching Class M records. Of the 70,416 motorcycle records that did not match to a Class M record in FY 2021, 5,438 (7.7%) matched to a Class M record in FY 2023. The number of matched records represents an increase of 45.8% compared to the FY 2021 mailing campaign evaluation conducted in FY 2022. This increase is a more realistic representation of the effectiveness of the mailout as the extended time period allows riders a chance to get registered, trained, and licensed, which may take more than four months.

The records that matched and did not match were analyzed using descriptive statistics by computing the percentage of matched records by city and county as:

$$\text{Number of matched records in FY2023} \div \text{Total number of unmatched records in FY2021}$$

Computing the match percentage enabled the identification of cities and counties with the highest and lowest match percentages, an indicator of the impact of the mailing campaign in FY 2021, and the degree of variation across the state. Results are presented in tables and a map.

Evaluation Results

Description of matched records

Concerning the type of license held by the riders, the majority (86.9%) held a Class C with the Class M, followed by those who held a Class A with the Class M (10.5%). A small proportion (2.6%) held a Class B with the Class M.

In FY 2023, the demographic information related to age, race/ethnicity, and sex were not included in the license and registration data provided by TxDPS and TxDMV.

Match percentages by county and city

Match percentages by city and county varied widely. Figure 1 displays the match percentages by county, with values ranging from 0 to 100%. A 100% match means that a postcard was mailed to a motorcycle owner in August 2021, and the owner obtained a Class M license by December 2022.

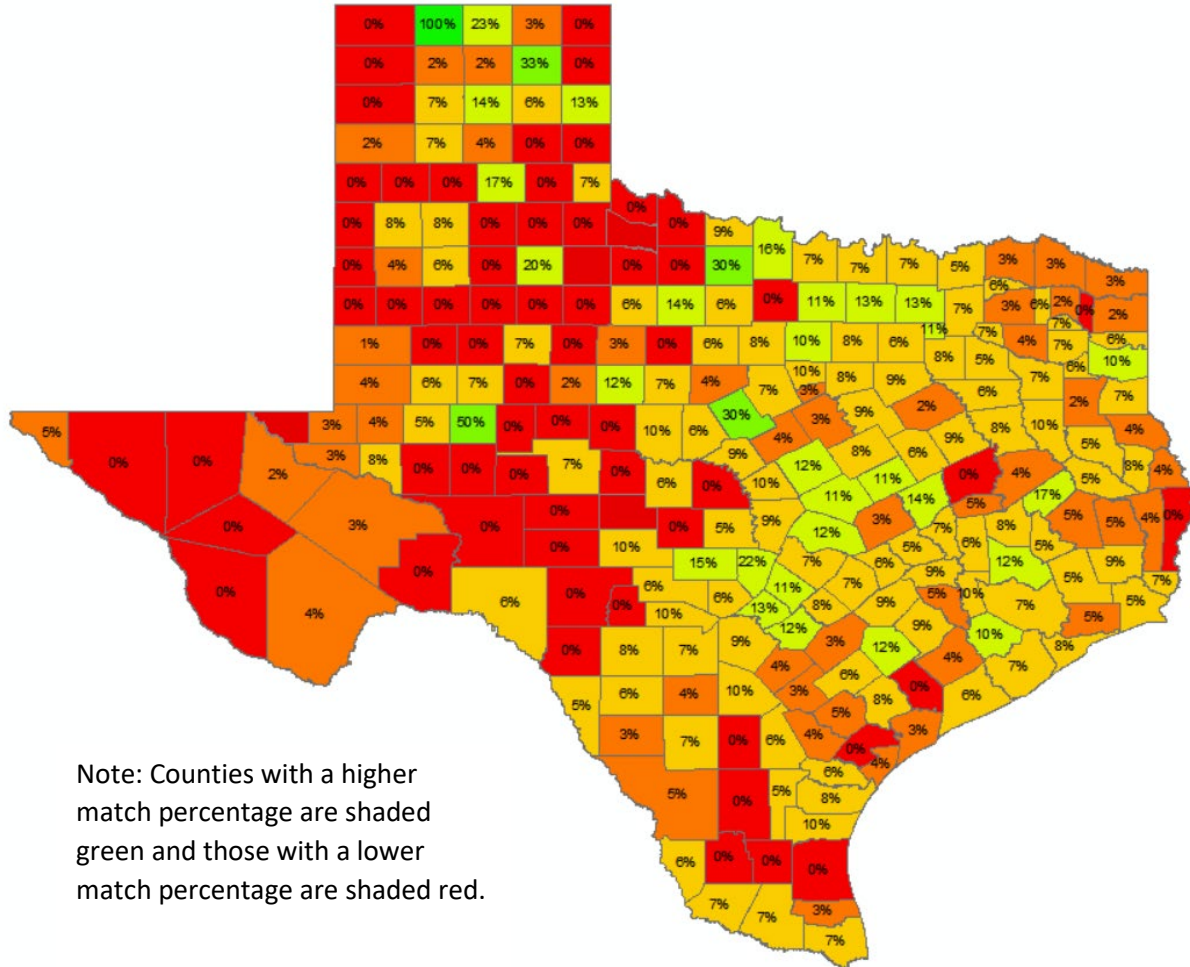


Figure 1. Percentage of Matched Records by County.

Figure 2 and Figure 3 display the location of motorcycle and all-terrain vehicle (ATV) training programs as listed on the [Texas Department of Licensing and Regulation](https://www.tdlr.state.tx.us/) website. In general, areas with training programs had higher match percentages.

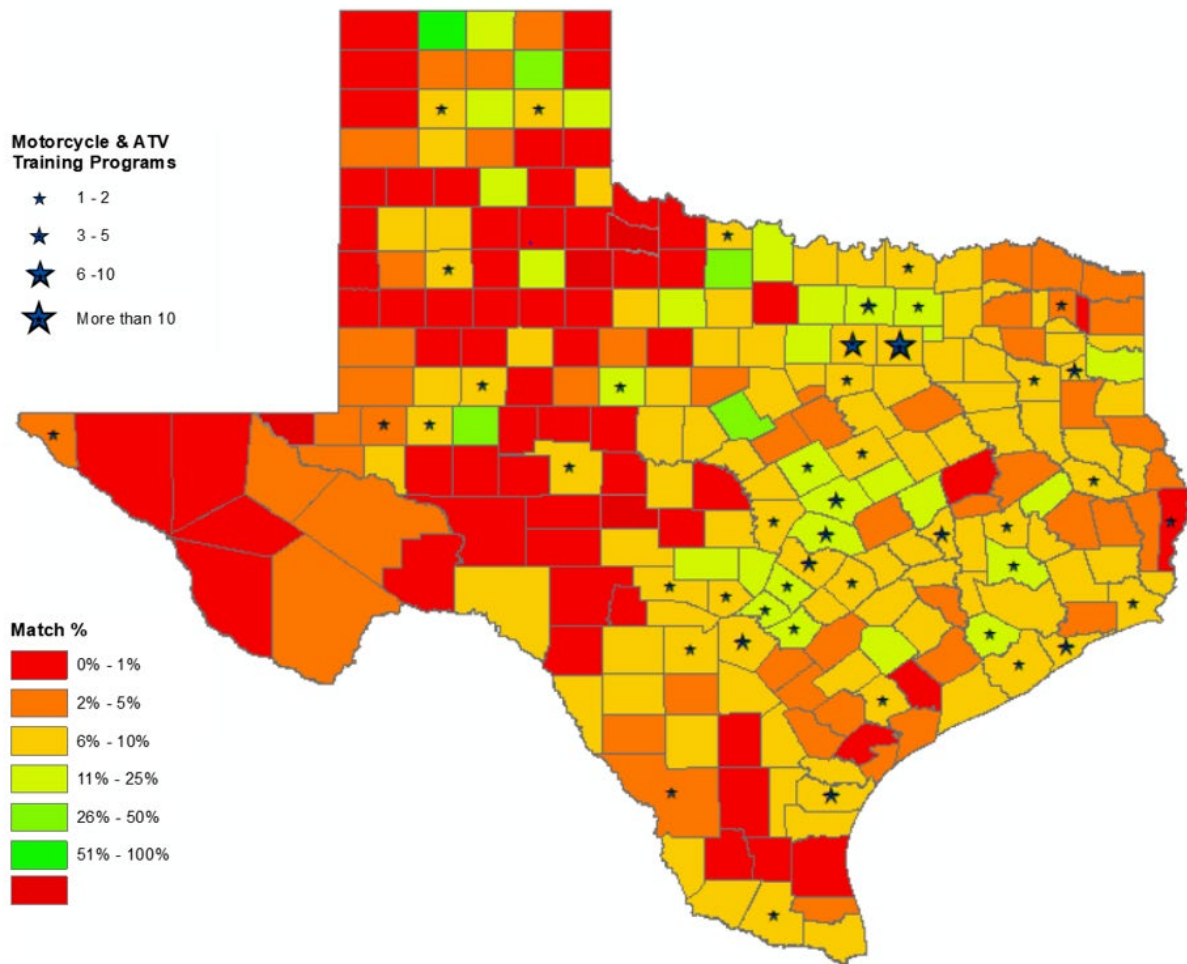


Figure 2. Percentage of Matched Records and Number of Motorcycle and ATV Training Programs by County.

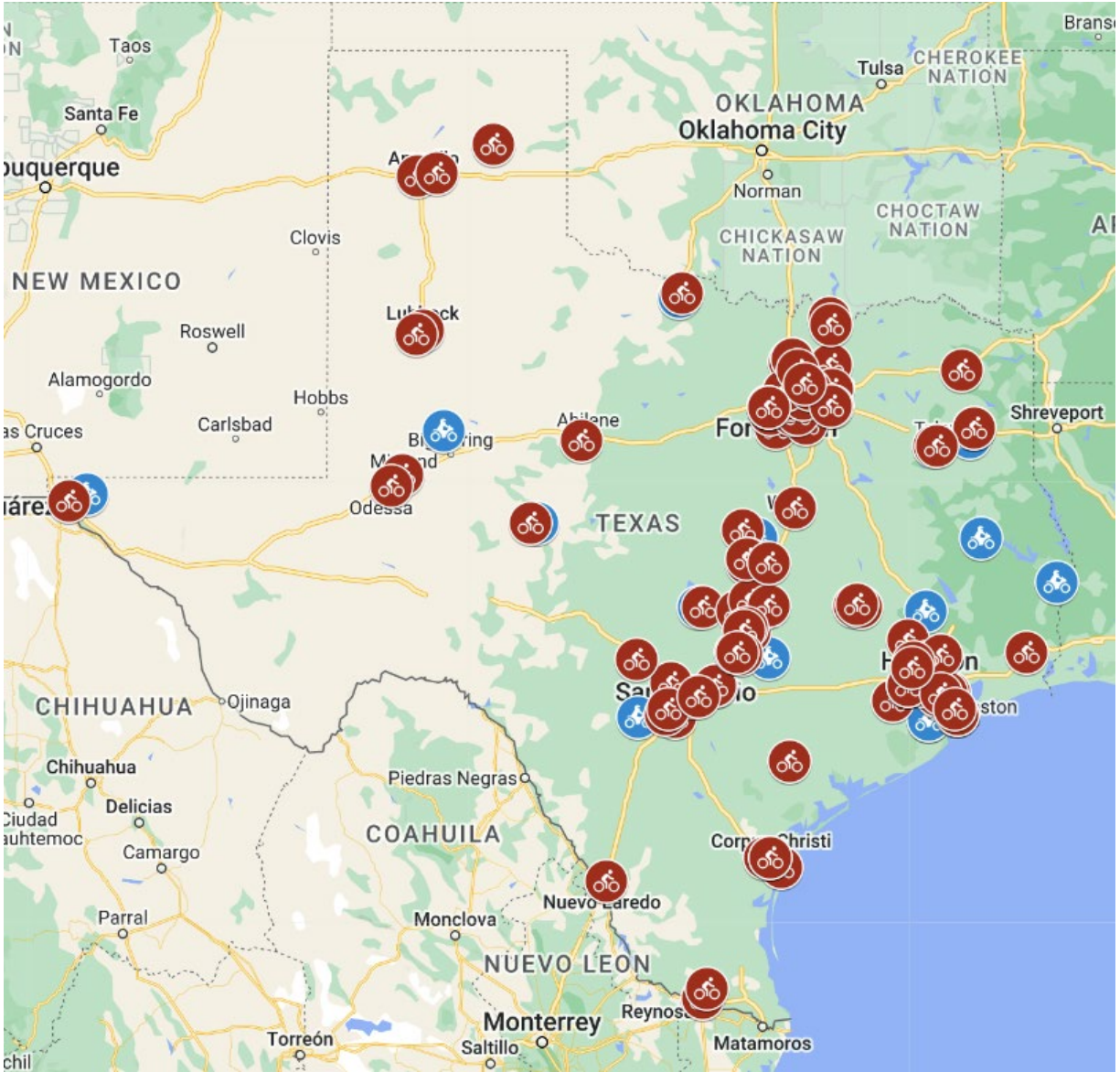


Figure 3. Motorcycle and All-Terrain Vehicle Training Locations.⁴

The top 15 counties with the highest match percentages and a minimum of five matches are listed in Table 2. Comanche County had the highest match percentage at 30.3%. The lowest matching percentages among the top 15 counties was 11.6%. Appendix A contains a table for all the counties. Of all counties, 63 (25.2%) had no matches. An additional 52 (20.8%) counties had a match percentage of more than 0% to less than 5%, 99 (39.6%) counties had a match percentage of 5% to less than 10%, and 36 (14.4%) counties had a match percentage of 10% or greater.⁵

⁴ Interactive map available at: <https://www.tdlr.texas.gov/mot/find-schools.htm>

⁵ The FY 2021 unmatched records did not have information for four counties: King, Foard, Loving, and Menard.

Table 2. Top 15 Counties with the Highest Match Percentage.

County	Number of Records with a New Class M	Match %
COMANCHE	10	30.3%
BLANCO	10	21.7%
TRINITY	10	16.7%
GILLESPIE	11	14.7%
ROBERTSON	6	13.6%
COMAL	84	13.4%
DENTON	269	12.7%
COLLIN	251	12.6%
GUADALUPE	48	11.9%
CORYELL	30	11.8%
MONTGOMERY	222	11.7%
TAYLOR	60	11.7%
LAVACA	7	11.7%
WILLIAMSON	149	11.6%

Note: Only includes counties with at least five matches.

Table 3 displays the top 15 counties with the highest frequency of matches. These counties comprise some of Texas's most highly populated and urbanized areas. Harris County had the highest frequency of matches at 515.

Table 3. Top 15 Counties with the Highest Match Frequency.

County	Number of records with a New Class M	Match %
HARRIS	515	7.1%
TARRANT	475	8.2%
BEXAR	397	8.8%
DALLAS	278	6.3%
DENTON	269	12.7%
COLLIN	251	12.6%
MONTGOMERY	222	11.7%
WILLIAMSON	149	11.6%
BELL	143	11.3%
TRAVIS	136	7.2%
FORT BEND	131	10.2%
EL PASO	128	4.6%
HIDALGO	118	7.4%
GALVESTON	104	8.0%
BRAZORIA	90	7.4%

With respect to cities, the match percentages ranged from 0 to 100%. However, cities with a 100% match percentage had a very small sample size of matches. There were 703 (51.0 %) cities with no matches, 355 (25.8%) cities with a match percentage of more than 0% to less than 10%, 268 (19.4%) cities with a match percentage of 10% to less than 30%, and 52 (3.8%) cities with a match percentage of 30% or higher. Table 4 displays the top 15 cities with the highest match percentage and at least five matched records. The leading city was Highland Village, at 44.4%. Appendix B contains the information for all matched cities.

Table 4. Top 15 Cities with the Highest Match Percentage.

City	Number of Records with a New Class M	Match %
HIGHLAND VILLAGE	12	44.4%
NORTH RICHLAND HILLS	14	35.0%
COMANCHE	6	33.3%
SHADY SHORES	5	33.3%
LUCAS	7	31.8%
WOLFFORTH	6	27.3%
LANTANA	6	26.1%
OAK POINT	9	23.1%
BULVERDE	6	22.2%
TRINITY	9	20.0%
BLANCO	5	20.0%
CELINA	9	19.6%
GRAPEVINE	23	18.7%
PORTER	21	17.1%
MELISSA	9	16.7%

Note: Only includes cities with at least five matches.

Table 5 presents the top 15 cities with the highest match frequency. These 15 cities are also among Texas's most populated and heavily urbanized areas. The city with the highest number of matches was San Antonio at 343.

Table 5. Top 15 Cities with the Highest Match Frequency.

City	Number of Records with a New Class M	Match %
SAN ANTONIO	343	8.6%
HOUSTON	252	6.0%
FORT WORTH	166	7.1%
AUSTIN	119	7.3%
EL PASO	116	4.5%
DALLAS	88	5.2%
ARLINGTON	84	7.9%
KILLEEN	78	12.4%
KATY	73	11.4%
AMARILLO	67	7.0%
MCKINNEY	65	13.3%
CONROE	64	13.0%
SPRING	63	8.3%

City	Number of Records with a New Class M	Match %
CORPUS CHRISTI	61	8.4%
NEW BRAUNFELS	54	14.0%

Limitations

A limitation of this evaluation stems from the fact that individuals who receive a postcard and subsequently change their address or decide to divest themselves of their motorcycle could potentially be misclassified as not obtaining a Class M license due to the matching process employed. These individuals might have indeed acquired the Class M license, but their change in address or motorcycle ownership status could lead to a reduction in the perceived effectiveness of the project by artificially reducing the percentage of individuals who obtained a Class M license. To alleviate this issue, enhancing the available information to incorporate license number and/or date of birth could prove advantageous in facilitating more accurate matching.

Additionally, ownership of a motorcycle doesn't mean the owner is the rider of the motorcycle. And due to the nature of the matching process, the accuracy of the match is not guaranteed. Finally, since driver license data is pulled for the previous calendar year, but postcards are usually sent in the following August, it is plausible that some riders may have received their license prior to receiving the postcard, but would still be counted as a match in the evaluation.

Conclusion

This project, built on prior research, continues to demonstrate the value of linking data to understand Class M licensing trends and patterns better. While the match percentages varied across counties and cities, as expected, the highest number of matches occurred in more populated areas.

A notable proportion (5.3%) of motorcycle registration records that did not link to a Class M record in FY 2021 linked to a Class M record in FY 2022. A re-evaluation of the FY 2021 data in FY 2023 yielded an increase of 45.8%.

Statewide, a notable proportion (7.7%) of motorcycle registration records that did not link to a Class M record, but were sent a postcard in FY 2021 subsequently linked to a Class M record in FY 2023, an increase of 45.8% compared to the same evaluation conducted in FY 2022—albeit using a narrower timeframe. This increase observed through the extended timeframe bolsters that the mailout outreach program continues to motivate individuals to pursue a Class M license.

Appendix A

Table 6. Match Counts and Percentages by County, FY 2023.

County	Number of Records with a New Class M	Match %
SHERMAN	1	100.0%
GLASSCOCK	1	50.0%
ROBERTS	1	33.3%
COMANCHE	10	30.3%
ARCHER	3	30.0%
HANSFORD	3	23.1%
BLANCO	10	21.7%
DICKENS	1	20.0%
TRINITY	10	16.7%
BRISCOE	1	16.7%
CLAY	3	15.8%
GILLESPIE	11	14.7%
CARSON	2	14.3%
THROCKMORTON	1	14.3%
ROBERTSON	6	13.6%
COMAL	84	13.4%
DENTON	269	12.7%
COLLIN	251	12.6%
WHEELER	2	12.5%
GUADALUPE	48	11.9%
CORYELL	30	11.8%
MONTGOMERY	222	11.7%
TAYLOR	60	11.7%
LAVACA	7	11.7%
WILLIAMSON	149	11.6%
BELL	143	11.3%
ROCKWALL	36	11.1%
FALLS	3	10.7%
HAYS	63	10.6%
WISE	35	10.6%
FORT BEND	131	10.2%
PARKER	54	10.2%
HARRISON	16	10.1%
CHEROKEE	12	10.0%
LAMPASAS	8	10.0%

County	Number of Records with a New Class M	Match %
KIMBLE	1	10.0%
WALLER	17	9.9%
ATASCOSA	13	9.9%
BANDERA	10	9.9%
COLEMAN	3	9.7%
KLEBERG	8	9.6%
HOOD	27	9.5%
HARDIN	19	9.3%
FREESTONE	5	9.3%
WASHINGTON	7	9.2%
MILLS	1	9.1%
WICHITA	38	9.1%
FAYETTE	6	9.0%
ELLIS	55	8.9%
BEXAR	397	8.8%
BURNET	14	8.8%
HILL	10	8.7%
COLORADO	4	8.5%
UVALDE	9	8.5%
KAUFMAN	42	8.4%
LAMB	3	8.3%
CALDWELL	10	8.3%
TARRANT	475	8.2%
ANDERSON	11	8.2%
JOHNSON	71	8.1%
GALVESTON	104	8.0%
VICTORIA	24	7.9%
NUECES	65	7.9%
SAN AUGUSTINE	2	7.7%
CRANE	1	7.7%
PALO PINTO	10	7.6%
HALE	9	7.6%
WALKER	14	7.5%
MCLENNAN	51	7.5%
HOWARD	13	7.5%
PANOLA	5	7.5%
HIDALGO	118	7.4%
BRAZORIA	90	7.4%
GRAYSON	49	7.4%
BASTROP	20	7.4%

County	Number of Records with a New Class M	Match %
CALLAHAN	4	7.4%
TRAVIS	136	7.2%
MONTAGUE	7	7.1%
CHILDRESS	2	7.1%
RANDALL	37	7.1%
CAMERON	54	7.1%
HARRIS	515	7.1%
BRAZOS	29	7.0%
ORANGE	24	7.0%
POTTER	35	6.9%
SMITH	39	6.8%
MEDINA	9	6.8%
TOM GREEN	22	6.8%
ERATH	7	6.8%
STARR	7	6.8%
SCURRY	4	6.8%
HUNT	21	6.7%
LA SALLE	2	6.7%
UPSHUR	10	6.6%
COOKE	9	6.5%
CAMP	3	6.5%
RAINS	3	6.5%
BROWN	9	6.5%
FRANKLIN	2	6.5%
KERR	12	6.3%
DALLAS	278	6.3%
KENDALL	7	6.3%
YOUNG	4	6.3%
STEPHENS	2	6.3%
DELTA	1	6.3%
HASKELL	1	6.3%
LIVE OAK	1	6.3%
MCCULLOCH	1	6.3%
HENDERSON	26	6.2%
SAN PATRICIO	14	6.2%
MATAGORDA	7	6.1%
VAL VERDE	9	6.1%
GRAY	6	6.1%
GRIMES	6	6.1%
ZAVALA	2	6.1%

County	Number of Records with a New Class M	Match %
GREGG	29	6.0%
MARION	4	6.0%
LEE	2	5.9%
ZAPATA	1	5.9%
LIMESTONE	3	5.8%
LUBBOCK	47	5.6%
DEWITT	3	5.6%
MARTIN	1	5.6%
JIM WELLS	5	5.5%
FANNIN	8	5.5%
ANGELINA	14	5.5%
VAN ZANDT	12	5.5%
LIBERTY	14	5.4%
LLANO	7	5.4%
JEFFERSON	36	5.4%
NACOGDOCHES	8	5.4%
BURLESON	3	5.4%
MAVERICK	8	5.3%
MIDLAND	27	5.2%
SAN JACINTO	8	5.0%
WEBB	33	4.9%
CHAMBERS	6	4.8%
TYLER	3	4.8%
POLK	8	4.8%
AUSTIN	6	4.8%
MADISON	2	4.8%
EL PASO	128	4.6%
GOLIAD	1	4.5%
BEE	3	4.4%
WOOD	8	4.3%
FRIO	3	4.3%
BREWSTER	2	4.3%
ARMSTRONG	1	4.3%
EASTLAND	3	4.1%
ARANSAS	4	4.0%
WILSON	5	4.0%
HOUSTON	2	4.0%
SABINE	1	4.0%
ANDREWS	3	3.8%
HAMILTON	1	3.8%

County	Number of Records with a New Class M	Match %
ECTOR	22	3.8%
JASPER	4	3.8%
WHARTON	4	3.7%
HOCKLEY	2	3.7%
SHELBY	3	3.7%
MILAM	2	3.4%
BOSQUE	2	3.3%
WILLACY	1	3.3%
DIMMIT	1	3.2%
KARNES	1	3.2%
WARD	2	3.2%
OCHILTREE	1	3.1%
CALHOUN	2	3.1%
HOPKINS	4	3.0%
SOMERVELL	1	3.0%
PECOS	1	2.9%
BOWIE	8	2.8%
JONES	1	2.8%
WINKLER	1	2.7%
LAMAR	7	2.7%
GONZALES	1	2.6%
RED RIVER	1	2.5%
RUSK	3	2.3%
CASS	2	2.1%
TITUS	2	2.1%
NOLAN	1	2.1%
REEVES	1	2.0%
HUTCHINSON	2	1.9%
DEAF SMITH	1	1.7%
NAVARRO	2	1.7%
MOORE	1	1.7%
GAINES	1	1.1%
BAILEY	0	0.0%
BAYLOR	0	0.0%
BORDEN	0	0.0%
BROOKS	0	0.0%
CASTRO	0	0.0%
COCHRAN	0	0.0%
COKE	0	0.0%
COLLINGSWORTH	0	0.0%

County	Number of Records with a New Class M	Match %
CONCHO	0	0.0%
COTTLE	0	0.0%
CROCKETT	0	0.0%
CROSBY	0	0.0%
CULBERSON	0	0.0%
DALLAM	0	0.0%
DAWSON	0	0.0%
DONLEY	0	0.0%
DUVAL	0	0.0%
EDWARDS	0	0.0%
FISHER	0	0.0%
FLOYD	0	0.0%
GARZA	0	0.0%
HALL	0	0.0%
HARDEMAN	0	0.0%
HARTLEY	0	0.0%
HEMPHILL	0	0.0%
HUDSPETH	0	0.0%
IRION	0	0.0%
JACK	0	0.0%
JACKSON	0	0.0%
JEFF DAVIS	0	0.0%
JIM HOGG	0	0.0%
KENEDY	0	0.0%
KENT	0	0.0%
KINNEY	0	0.0%
KNOX	0	0.0%
LEON	0	0.0%
LIPSCOMB	0	0.0%
LYNN	0	0.0%
MASON	0	0.0%
MCMULLEN	0	0.0%
MITCHELL	0	0.0%
MORRIS	0	0.0%
MOTLEY	0	0.0%
NEWTON	0	0.0%
OLDHAM	0	0.0%
PARMER	0	0.0%
PRESIDIO	0	0.0%
REAGAN	0	0.0%

County	Number of Records with a New Class M	Match %
REAL	0	0.0%
REFUGIO	0	0.0%
RUNNELS	0	0.0%
SAN SABA	0	0.0%
SCHLEICHER	0	0.0%
SHACKELFORD	0	0.0%
STERLING	0	0.0%
STONEWALL	0	0.0%
SUTTON	0	0.0%
SWISHER	0	0.0%
TERRELL	0	0.0%
TERRY	0	0.0%
UPTON	0	0.0%
WILBARGER	0	0.0%
YOAKUM	0	0.0%

Note: Four counties are excluded from the table because they were not on the mailing list.

Appendix B

Table 7. Match Counts and Percentages by City, FY 2023.

City	Number of Records with a New Class M	Match %
CALLISBURG	2	100.0%
BROADDUS	2	100.0%
OVALO	2	100.0%
ABBOTT	1	100.0%
CATARINA	1	100.0%
IRAAN	1	100.0%
MINERAL	1	100.0%
SCOTLAND	1	100.0%
WHEELER	1	100.0%
MEADOWLAKES	3	75.0%
GARY	4	66.7%
DONIE	2	66.7%
EDGECLIFF VILLAGE	2	66.7%
JBSA FORT SAM HOUSTON	2	66.7%
JBSA LACKLAND	2	66.7%
RICHLAND	2	66.7%
AURORA	3	50.0%
MC QUEENEY	2	50.0%
PALMHURST	2	50.0%
ROUND MOUNTAIN	2	50.0%
WEST ORANGE	2	50.0%
ARCHER CITY	1	50.0%
GARDEN CITY	1	50.0%
LACY LAKEVIEW	1	50.0%
ROXTON	1	50.0%
RULE	1	50.0%
WEST POINT	1	50.0%
WILLOW CITY	1	50.0%
HIGHLAND VILLAGE	12	44.4%
HARLETON	2	40.0%
SAVANNAH	4	36.4%
NORTH RICHLAND HILLS	14	35.0%
COMANCHE	6	33.3%
SHADY SHORES	5	33.3%
EDCOUCH	3	33.3%
INEZ	2	33.3%
RUNAWAY BAY	2	33.3%

City	Number of Records with a New Class M	Match %
SIMMS	2	33.3%
APPLE SPRINGS	1	33.3%
AQUILLA	1	33.3%
BLEIBLERVILLE	1	33.3%
CARMINE	1	33.3%
CHILTON	1	33.3%
GUSTINE	1	33.3%
HIGHLAND HAVEN	1	33.3%
LA PRYOR	1	33.3%
MIAMI	1	33.3%
OYSTER CREEK	1	33.3%
RIO BRAVO	1	33.3%
WHITE DEER	1	33.3%
LUCAS	7	31.8%
SPEARMAN	3	30.0%
GRAFORD	4	28.6%
WOLFFORTH	6	27.3%
DE LEON	3	27.3%
OVILLA	3	27.3%
PROVIDENCE VILLAGE	3	27.3%
HEARTLAND	4	26.7%
LYTLE	4	26.7%
LANTANA	6	26.1%
CHINA SPRING	3	25.0%
PAIGE	2	25.0%
PANTEGO	2	25.0%
SHELBYVILLE	2	25.0%
ARCOLA	1	25.0%
COUPLAND	1	25.0%
HOLIDAY LAKES	1	25.0%
JERSEY VILLAGE	1	25.0%
LITTLE RIVER ACADEMY	1	25.0%
MARTINDALE	1	25.0%
POINT VENTURE	1	25.0%
ROSEBUD	1	25.0%
THORNTON	1	25.0%
THRALL	1	25.0%
WESTLAKE	1	25.0%
WESTWORTH VILLAGE	1	25.0%
WOODSON	1	25.0%

City	Number of Records with a New Class M	Match %
WEST COLUMBIA	4	23.5%
OAK POINT	9	23.1%
BAIRD	3	23.1%
IOLA	3	23.1%
BULVERDE	6	22.2%
BREMOND	2	22.2%
COAHOMA	2	22.2%
LARUE	3	21.4%
RICHWOOD	3	21.4%
TUSCOLA	4	21.1%
TRINITY	9	20.0%
BLANCO	5	20.0%
HENRIETTA	3	20.0%
JOHNSON CITY	3	20.0%
PATTISON	3	20.0%
PORT ISABEL	3	20.0%
WILLOW PARK	2	20.0%
BLANKET	1	20.0%
HOLLY LAKE RANCH	1	20.0%
IOWA COLONY	1	20.0%
LANEVILLE	1	20.0%
MIDWAY	1	20.0%
OAK LEAF	1	20.0%
OLMITO	1	20.0%
RED ROCK	1	20.0%
SADLER	1	20.0%
SANTO	1	20.0%
SILVERTON	1	20.0%
SPUR	1	20.0%
THREE RIVERS	1	20.0%
CELINA	9	19.6%
FAIRVIEW	3	18.8%
POLLOK	3	18.8%
GRAPEVINE	23	18.7%
COLUMBUS	4	18.2%
CROSSROADS	2	18.2%
STREETMAN	2	18.2%
CLINT	3	17.6%
FRANKSTON	4	17.4%
PORTER	21	17.1%

City	Number of Records with a New Class M	Match %
MELISSA	9	16.7%
LIBERTY	7	16.7%
HALLSVILLE	6	16.7%
PIPE CREEK	4	16.7%
NOLANVILLE	3	16.7%
GARRISON	2	16.7%
HIDEAWAY	2	16.7%
HOWE	2	16.7%
TOLAR	2	16.7%
BARTLETT	1	16.7%
BEASLEY	1	16.7%
FISCHER	1	16.7%
FORT SAM HOUSTON	1	16.7%
HOLLIDAY	1	16.7%
LIVERPOOL	1	16.7%
POOLVILLE	1	16.7%
SAINT HEDWIG	1	16.7%
SARATOGA	1	16.7%
SHAVANO PARK	1	16.7%
ST PAUL	1	16.7%
SUNSET	1	16.7%
MONTGOMERY	39	16.3%
COLLEYVILLE	11	16.2%
CLUTE	5	16.1%
MARION	4	16.0%
AUBREY	18	15.7%
LOS FRESNOS	5	15.6%
ALLEN	29	15.6%
FATE	7	15.6%
HEARNE	4	15.4%
PALMVIEW	2	15.4%
LITTLE ELM	21	15.3%
DONNA	9	15.3%
MC GREGOR	5	15.2%
PROSPER	11	15.1%
RICHLAND HILLS	6	15.0%
COLEMAN	3	15.0%
ARGYLE	8	14.8%
SILSBEE	8	14.8%
CEDAR PARK	21	14.8%

City	Number of Records with a New Class M	Match %
KEMPNER	5	14.7%
FARMERSVILLE	6	14.6%
CARROLLTON	31	14.3%
ROSENBERG	16	14.3%
SANGER	11	14.3%
HALLETTSVILLE	4	14.3%
GORDONVILLE	3	14.3%
SALADO	3	14.3%
YOAKUM	3	14.3%
YOAKUM	3	14.3%
ALVORD	2	14.3%
FAIR OAKS RANCH	2	14.3%
GARDENDALE	2	14.3%
NORTHLAKE	2	14.3%
ARTHUR CITY	1	14.3%
BATSON	1	14.3%
BROOKELAND	1	14.3%
BURTON	1	14.3%
COPPER CANYON	1	14.3%
DOUBLE OAK	1	14.3%
HUDSON OAKS	1	14.3%
LA JOYA	1	14.3%
LADONIA	1	14.3%
MAYPEARL	1	14.3%
MOORE	1	14.3%
NEW ULM	1	14.3%
SHENANDOAH	1	14.3%
CIBOLO	13	14.1%
NEW BRAUNFELS	54	14.0%
DRIPPING SPRINGS	7	14.0%
FLOWER MOUND	20	13.9%
MERKEL	5	13.9%
FREDERICKSBURG	9	13.8%
LAKE JACKSON	12	13.8%
FULSHEAR	4	13.8%
THE WOODLANDS	20	13.7%
BUCHANAN DAM	3	13.6%
LEONARD	3	13.6%
MAGNOLIA	35	13.4%
INGLESIDE	6	13.3%

City	Number of Records with a New Class M	Match %
COMMERCE	4	13.3%
ABERNATHY	2	13.3%
LIPAN	2	13.3%
MONT BELVIEU	2	13.3%
NEWARK	2	13.3%
TROY	2	13.3%
MCKINNEY	65	13.3%
HELOTES	8	13.1%
COPPERAS COVE	21	13.0%
BOYD	6	13.0%
LA GRANGE	3	13.0%
CONROE	64	13.0%
GEORGETOWN	37	13.0%
BEDFORD	17	13.0%
CHICO	4	12.9%
LAGO VISTA	4	12.9%
JACKSONVILLE	9	12.9%
ROUND ROCK	39	12.7%
CONVERSE	21	12.7%
FRISCO	42	12.6%
BUDA	14	12.5%
ALEDO	6	12.5%
ADKINS	3	12.5%
HILLSBORO	3	12.5%
NOCONA	3	12.5%
BISHOP	1	12.5%
BROWNSBORO	1	12.5%
CELESTE	1	12.5%
GOLDTHWAITE	1	12.5%
MOUNT VERNON	1	12.5%
WALLIS	1	12.5%
THE COLONY	14	12.4%
HUTTO	13	12.4%
KILLEEN	78	12.4%
SUGAR LAND	24	12.1%
DUNCANVILLE	8	12.1%
ROCKWALL	21	12.1%
WYLIE	20	12.0%
WYLIE	20	12.0%
GATESVILLE	9	12.0%

City	Number of Records with a New Class M	Match %
HIGHLANDS	3	12.0%
WOODWAY	3	12.0%
WOODWAY	3	12.0%
HARKER HEIGHTS	14	12.0%
LIBERTY HILL	5	11.9%
COPPELL	7	11.9%
FORNEY	20	11.8%
MIDLOTHIAN	17	11.8%
WEATHERFORD	36	11.8%
WHITE SETTLEMENT	4	11.8%
LA FERIA	2	11.8%
FLINT	5	11.6%
HURST	16	11.6%
LITTLEFIELD	3	11.5%
CEDAR HILL	13	11.5%
ABILENE	48	11.4%
KATY	73	11.4%
PLEASANTON	5	11.4%
HALTOM CITY	17	11.3%
CANYON LAKE	13	11.3%
BELTON	15	11.3%
SCHERTZ	10	11.2%
FRIENDSWOOD	14	11.2%
HEMPSTEAD	6	11.1%
JUSTIN	6	11.1%
LIVE OAK	4	11.1%
SMITHVILLE	3	11.1%
BEDIAS	2	11.1%
MOODY	2	11.1%
ADDISON	1	11.1%
BRUCEVILLE	1	11.1%
JUNCTION	1	11.1%
MAXWELL	1	11.1%
MICO	1	11.1%
PANHANDLE	1	11.1%
ROUND TOP	1	11.1%
SCROGGINS	1	11.1%
SPRING BRANCH	8	11.0%
PORTLAND	6	10.9%
RED OAK	11	10.9%

City	Number of Records with a New Class M	Match %
MURPHY	4	10.8%
FORT HOOD	10	10.8%
AVINGER	3	10.7%
ANNA	8	10.7%
EULESS	17	10.6%
SAN MARCOS	16	10.6%
TAYLOR	6	10.5%
HEWITT	4	10.5%
HAWKINS	2	10.5%
LAKEWAY	2	10.5%
MANCHACA	2	10.5%
SEGUIN	16	10.5%
PRINCETON	10	10.4%
BROOKSHIRE	5	10.4%
CROSBY	9	10.3%
ROANOKE	6	10.3%
EMORY	3	10.3%
KEMAH	3	10.3%
PINEHURST	4	10.3%
UNIVERSAL CITY	5	10.2%
LEAGUE CITY	21	10.2%
WESLACO	12	10.2%
BRENHAM	6	10.2%
WATAUGA	9	10.1%
KYLE	16	10.0%
LINDALE	6	10.0%
SEABROOK	6	10.0%
PORT NECHES	5	10.0%
SEAGOVILLE	5	10.0%
VENUS	4	10.0%
CASTROVILLE	3	10.0%
BANGS	1	10.0%
CAMPBELL	1	10.0%
EDDY	1	10.0%
GRAPELAND	1	10.0%
ITALY	1	10.0%
JONESTOWN	1	10.0%
JOSEPHINE	1	10.0%
KARNES CITY	1	10.0%
KRUGERVILLE	1	10.0%

City	Number of Records with a New Class M	Match %
SANTA ROSA	1	10.0%
STAMFORD	1	10.0%
TERLINGUA	1	10.0%
PLANO	38	10.0%
KINGSVILLE	8	9.9%
MISSOURI CITY	21	9.9%
BURLESON	31	9.8%
DENTON	35	9.8%
DEL VALLE	4	9.8%
LAKE DALLAS	4	9.8%
STEPHENVILLE	7	9.7%
KERRVILLE	12	9.7%
MERCEDES	6	9.7%
SACHSE	6	9.7%
RUSK	3	9.7%
LEWISVILLE	20	9.7%
CLEBURNE	22	9.6%
WICHITA FALLS	31	9.6%
CYPRESS	34	9.6%
KENNEDALE	4	9.5%
ELKHART	2	9.5%
SOUR LAKE	2	9.5%
HASLET	9	9.5%
RICHMOND	35	9.4%
SANTA FE	12	9.4%
UVALDE	9	9.4%
CORINTH	5	9.3%
BOERNE	10	9.1%
CRANDALL	3	9.1%
PARADISE	3	9.1%
EDGEWOOD	2	9.1%
WEST	2	9.1%
ANAHUAC	1	9.1%
AXTELL	1	9.1%
EVERMAN	1	9.1%
MEDINA	1	9.1%
MILLSAP	1	9.1%
SHAMROCK	1	9.1%
TOOL	1	9.1%
VIDOR	12	9.0%

City	Number of Records with a New Class M	Match %
GRANBURY	23	9.0%
TOMBALL	19	8.9%
HITCHCOCK	4	8.9%
KINGWOOD	14	8.9%
CROWLEY	10	8.8%
TEXAS CITY	19	8.8%
SWEENEY	4	8.7%
GRANITE SHOALS	2	8.7%
SELMA	2	8.7%
PEARLAND	31	8.7%
DECATUR	7	8.6%
LOCKHART	5	8.6%
SAN ANTONIO	343	8.6%
ATHENS	6	8.5%
CORPUS CHRISTI	61	8.4%
WAXAHACHIE	16	8.3%
LA PORTE	11	8.3%
KINGSLAND	4	8.3%
ATASCOSA	2	8.3%
COOPER	1	8.3%
ELM MOTT	1	8.3%
HICKORY CREEK	1	8.3%
HUBBARD	1	8.3%
LAGUNA VISTA	1	8.3%
LEXINGTON	1	8.3%
PARKER	1	8.3%
TIMPSON	1	8.3%
VINTON	1	8.3%
LEANDER	15	8.3%
SPRING	63	8.3%
HUMBLE	28	8.2%
HUNTSVILLE	13	8.2%
RIO GRANDE CITY	6	8.2%
BASTROP	8	8.2%
BANDERA	4	8.2%
BURKBURNETT	4	8.2%
GRAHAM	4	8.2%
WHITNEY	4	8.2%
BROWNWOOD	7	8.1%
GILMER	7	8.1%

City	Number of Records with a New Class M	Match %
BAY CITY	6	8.1%
SHEPHERD	3	8.1%
DENISON	15	8.0%
BIG SANDY	2	8.0%
CUMBY	2	8.0%
DALE	2	8.0%
FERRIS	2	8.0%
JOURDANTON	2	8.0%
POTEET	2	8.0%
ROBINSON	2	8.0%
MISSION	23	8.0%
ARLINGTON	84	7.9%
BRIDGEPORT	3	7.9%
GRAND PRAIRIE	36	7.9%
BONHAM	4	7.8%
SNYDER	4	7.8%
BROWNSVILLE	28	7.8%
BRYAN	17	7.8%
SHERMAN	17	7.8%
TEMPLE	17	7.8%
EDINBURG	22	7.7%
LANCASTER	8	7.7%
SOCORRO	4	7.7%
CALDWELL	2	7.7%
COTULLA	2	7.7%
HIDALGO	2	7.7%
MEXIA	2	7.7%
ONALASKA	2	7.7%
BELLAIRE	1	7.7%
CLARKSVILLE	1	7.7%
CRANE	1	7.7%
DIBOLL	1	7.7%
ELECTRA	1	7.7%
FLORENCE	1	7.7%
RENO	1	7.7%
WARREN	1	7.7%
MCALLEN	26	7.7%
VICTORIA	22	7.7%
DESOTO	9	7.6%
WHITESBORO	4	7.5%

City	Number of Records with a New Class M	Match %
PFLUGERVILLE	11	7.5%
LAMPASAS	3	7.5%
MARBLE FALLS	3	7.5%
BRAZORIA	5	7.5%
CANYON	5	7.5%
GARLAND	38	7.5%
AZLE	14	7.4%
DICKINSON	11	7.4%
HORIZON CITY	4	7.4%
KIRBYVILLE	2	7.4%
WASKOM	2	7.4%
WILLS POINT	5	7.4%
PITTSBURG	3	7.3%
AUSTIN	119	7.3%
PLAINVIEW	7	7.3%
SAGINAW	7	7.2%
BAYTOWN	17	7.2%
LONGVIEW	21	7.1%
LUMBERTON	6	7.1%
MARSHALL	6	7.1%
ROYSE CITY	6	7.1%
KEMP	4	7.1%
KRUM	3	7.1%
POTTSBORO	3	7.1%
CHILDRESS	2	7.1%
ARP	1	7.1%
BRADY	1	7.1%
HEMPHILL	1	7.1%
SAN ANGELO	22	7.1%
FORT WORTH	166	7.1%
ALICE	5	7.0%
BURNET	5	7.0%
MANVEL	5	7.0%
GREENVILLE	9	7.0%
BALCH SPRINGS	4	7.0%
AMARILLO	67	7.0%
TERRELL	9	7.0%
BACLIFF	3	7.0%
HONDO	3	7.0%
PASADENA	18	6.9%

City	Number of Records with a New Class M	Match %
COLDSRING	2	6.9%
EASTLAND	2	6.9%
LAVON	2	6.9%
RICHARDSON	9	6.8%
BIG SPRING	11	6.7%
CRAWFORD	1	6.7%
MARLIN	1	6.7%
RANGER	1	6.7%
SCURRY	1	6.7%
SHEPPARD AFB	1	6.7%
STANTON	1	6.7%
WAKE VILLAGE	1	6.7%
YORKTOWN	1	6.7%
YORKTOWN	1	6.7%
JARRELL	3	6.5%
MINEOLA	3	6.5%
BRECKENRIDGE	2	6.5%
CUERO	2	6.5%
WOODVILLE	2	6.5%
WOODVILLE	2	6.5%
CEDAR CREEK	3	6.4%
HOCKLEY	4	6.3%
MANOR	4	6.3%
PAMPA	6	6.3%
TYLER	21	6.3%
LA MARQUE	7	6.3%
GLADEWATER	4	6.3%
WALLER	3	6.3%
BEN WHEELER	2	6.3%
DEVINE	2	6.3%
CLIFTON	1	6.3%
GALENA PARK	1	6.3%
HEATH	1	6.3%
KEENE	1	6.3%
LAKEHILLS	1	6.3%
RIO VISTA	1	6.3%
SULLIVAN CITY	1	6.3%
VAN	1	6.3%
WHITE OAK	1	6.3%
COLLEGE STATION	12	6.2%

City	Number of Records with a New Class M	Match %
ROWLETT	11	6.2%
MABANK	7	6.2%
DEL RIO	9	6.1%
PALESTINE	5	6.1%
ALVARADO	7	6.1%
LORENA	2	6.1%
NEEDVILLE	2	6.1%
NEVADA	2	6.1%
HOUSTON	252	6.0%
BEAUMONT	18	6.0%
ORANGE	10	6.0%
SPRINGTOWN	7	6.0%
WILLIS	10	5.9%
BOWIE	3	5.9%
SPICEWOOD	2	5.9%
GIDDINGS	1	5.9%
VALLEY MILLS	1	5.9%
VALLEY VIEW	1	5.9%
ZAPATA	1	5.9%
ZAPATA	1	5.9%
WACO	22	5.9%
GAINESVILLE	6	5.8%
QUINLAN	4	5.8%
KAUFMAN	5	5.7%
VAN ALSTYNE	2	5.7%
WHITEHOUSE	2	5.7%
NEDERLAND	5	5.7%
EL CAMPO	2	5.6%
CAMERON	1	5.6%
DYESS AFB	1	5.6%
HAMILTON	1	5.6%
PALACIOS	1	5.6%
PALMER	1	5.6%
RHOME	3	5.5%
NEW CANEY	6	5.4%
EAGLE PASS	8	5.4%
DAYTON	6	5.4%
BENBROOK	4	5.3%
LUBBOCK	41	5.3%
PILOT POINT	2	5.3%

City	Number of Records with a New Class M	Match %
DRIFTWOOD	1	5.3%
GOLIAD	1	5.3%
GUNTER	1	5.3%
DALLAS	88	5.2%
MIDLAND	27	5.2%
SPLENDORA	3	5.2%
ATLANTA	2	5.1%
HARLINGEN	10	5.1%
KELLER	10	5.0%
NACOGDOCHES	6	5.0%
STAFFORD	2	5.0%
GODLEY	1	5.0%
IOWA PARK	1	5.0%
TROPHY CLUB	1	5.0%
MINERAL WELLS	5	5.0%
SAN JUAN	4	4.9%
PEARSALL	2	4.9%
IRVING	23	4.9%
LAREDO	32	4.8%
LONE OAK	1	4.8%
LULING	1	4.8%
RAYMONDVILLE	1	4.8%
TROUP	1	4.8%
MESQUITE	15	4.7%
SOUTHLAKE	4	4.7%
FLORESVILLE	3	4.7%
LUFKIN	9	4.7%
LIVINGSTON	6	4.7%
GUN BARREL CITY	2	4.7%
LEVELLAND	2	4.7%
MANSFIELD	9	4.6%
GROVES	3	4.5%
ALBA	1	4.5%
MOUNT PLEASANT	1	4.5%
WEBSTER	1	4.5%
ALVIN	9	4.5%
EL PASO	116	4.5%
CANTON	2	4.4%
GALVESTON	9	4.4%
CLAUDE	1	4.3%

City	Number of Records with a New Class M	Match %
ORE CITY	1	4.3%
PORT ARANSAS	1	4.3%
WHITEWRIGHT	1	4.3%
GONZALES	1	4.2%
MADISONVILLE	1	4.2%
ROCKPORT	4	4.1%
ELGIN	3	4.1%
WHARTON	2	4.1%
DEER PARK	4	4.0%
PORT LAVACA	2	4.0%
LA VERNIA	2	3.9%
ANDREWS	3	3.8%
FOREST HILL	1	3.8%
HUNTINGTON	1	3.8%
PONDER	1	3.8%
ROCKDALE	1	3.8%
SAN LEON	1	3.8%
CADDO MILLS	1	3.7%
ELMENDORF	1	3.7%
FAIRFIELD	1	3.7%
KOUNTZE	1	3.7%
SOMERVILLE	1	3.7%
SAN BENITO	3	3.6%
FRITCH	1	3.6%
GLEN ROSE	1	3.6%
MALAKOFF	1	3.6%
NEW WAVERLY	1	3.6%
ODESSA	20	3.5%
BEEVILLE	2	3.5%
MONAHANS	2	3.5%
RIVER OAKS	1	3.4%
ROMA	1	3.4%
PORT ARTHUR	5	3.4%
SEALY	2	3.4%
FREEPORT	2	3.3%
CRYSTAL CITY	1	3.3%
SOUTH HOUSTON	1	3.3%
CLYDE	1	3.2%
PERRYTON	1	3.2%
ROBSTOWN	2	3.2%

City	Number of Records with a New Class M	Match %
JOSHUA	3	3.2%
CROCKETT	1	3.1%
NEW BOSTON	1	3.1%
SINTON	1	3.1%
KERMIT	1	3.0%
CHANNELVIEW	2	3.0%
ALPINE	1	2.9%
ENNIS	2	2.9%
KILGORE	3	2.8%
ALTON	1	2.6%
BULLARD	1	2.6%
JEFFERSON	1	2.6%
CLEVELAND	4	2.5%
SWEETWATER	1	2.5%
ROSHARON	2	2.5%
HENDERSON	2	2.4%
TEXARKANA	4	2.4%
ANGLETON	3	2.4%
PARIS	4	2.4%
SULPHUR SPRINGS	2	2.3%
CARTHAGE	1	2.3%
WIMBERLEY	1	2.3%
BELLVILLE	1	2.3%
JASPER	1	2.3%
NAVASOTA	1	2.2%
PECOS	1	2.2%
ARANSAS PASS	1	2.1%
WINNSBORO	1	2.1%
PHARR	3	2.0%
DUMAS	1	1.9%
CHANDLER	1	1.8%
ALAMO	1	1.7%
HEREFORD	1	1.7%
MT PLEASANT	1	1.7%
N RICHLAND HILLS	3	1.7%
FRESNO	1	1.6%
BORGER	1	1.4%
SEMINOLE	1	1.2%

Note: Cities with a 0% match are not included.