

APPENDIX G

**2020 TEXAS STATEWIDE AIRPORT EMISSIONS INVENTORY
AND 2011 THROUGH 2050 TREND INVENTORIES**

Navarro County Attainment Demonstration State
Implementation Plan for the 2010 One-Hour Sulfur Dioxide
National Ambient Air Quality Standard

2021-012-SIP-NR



2020 Texas Statewide Airport Emissions Inventory and 2011 through 2050 Trend Inventories

FINAL REPORT

Prepared for the Texas Commission on Environmental
Quality

October 2021

Texas A&M Transportation Institute



FINAL REPORT

TCEQ Grant Number: 582-16-61286

TCEQ Proposal for Grant Activity No: 582-21-11196-018

TTI Contract No. 615721

TASK 8.2 Final Report

DATE: October 15, 2021

TO: Cody McLain
Palak Paul
Texas Commission on Environmental Quality (TCEQ)

COPY TO: Julie Vanden Berg, TCEQ
Brenda Fritz, TCEQ
Mathew Southard, TCEQ

FROM: Madhusudhan Venugopal, P.E.
Apoorba Bibeka, P.E.
Tao Li, Ph.D.
Marty Boardman
Robert Huch, P.G., CPESC
Chaoyi Gu, P.E.
Texas A&M Transportation Institute

FOR MORE INFORMATION:

Madhusudhan Venugopal
972-994-2213
m-venugopal@tti.tamu.edu

TABLE OF CONTENTS

| | |
|---|-----|
| Table of Contents | iii |
| List of Figures | v |
| List of Tables | v |
| List of Acronyms And Abbreviations | vi |
| Executive Summary | 1 |
| 1.0 Introduction..... | 4 |
| 1.1 Objective | 4 |
| 1.2 Emissions Inventory Scope | 5 |
| 1.3 Organization..... | 7 |
| 2.0 Background..... | 9 |
| 2.1 Regulations | 9 |
| 2.2 Aircraft Emissions..... | 9 |
| 2.3 Control Strategies..... | 11 |
| 2.4 Prior Studies | 12 |
| 2.4.1 ERG 2011 Statewide Airport Emissions Inventory Report | 12 |
| 2.4.2 NCTCOG Study, 2011 | 13 |
| 2.4.3 ERG Study, 2017 | 13 |
| 3.0 Methodology | 15 |
| 3.1 Facility Groups Categorization..... | 15 |
| 3.1.1 Commercial Service Airports..... | 16 |
| 3.1.2 Reliever Airports..... | 17 |
| 3.1.3 Other TASP Facilities..... | 18 |
| 3.1.4 Military Airports | 19 |
| 3.1.5 Medical Facility Heliports | 19 |
| 3.1.6 Farm or Ranch Facilities..... | 19 |
| 3.1.7 Other Public and Private Facilities | 19 |
| 3.2 Activity Data | 19 |
| 3.2.1 Aircraft Activity- LTO | 20 |
| 3.2.2 Projection Factors..... | 20 |
| 3.2.3 Fleet-Mix and Engine Assignments..... | 20 |
| 3.2.4 Taxi-In and Taxi-Out Times..... | 20 |
| 3.2.5 GSE Inventory..... | 21 |
| 3.2.6 APUs | 21 |
| 3.3 Emission Modeling..... | 21 |
| 3.4 Post Processing..... | 22 |
| 4.0 Data | 23 |

| | |
|--|-----|
| 4.1 Data Sources | 23 |
| 4.1.1 FAA..... | 23 |
| 4.1.2 TxDOT Planning Airports..... | 24 |
| 4.1.3 EPA's NEI | 25 |
| 4.1.4 AirNav..... | 25 |
| 4.1.5 EIA's AEO | 25 |
| 4.2 Activity Data | 25 |
| 4.2.1 Aircraft Activity— LTO..... | 25 |
| 4.2.2 Taxi-In and Taxi-Out Times..... | 30 |
| 4.2.3 Fleet Mix Development..... | 32 |
| 4.2.4 Forecasting Factors | 33 |
| 4.3 Control Strategies..... | 36 |
| 5.0 Emissions Modeling | 38 |
| 5.1 AEDT Overview..... | 38 |
| 5.2 Modeling Parameters..... | 41 |
| 5.2.1 Commercial and Reliever | 42 |
| 5.2.2 Non-Commercial and -Reliever..... | 43 |
| 6.0 Emission Inventories | 44 |
| 7.0 Quality Assurance and Quality Control..... | 45 |
| 7.1 Project Management..... | 45 |
| 7.2 Assessment and Oversight | 46 |
| 7.3 Data Validation | 46 |
| 8.0 Conclusion and Recommendation..... | 48 |
| References..... | 50 |
| Appendix A: TOG Speciated Pollutants | 52 |
| Appendix B: 2019 Operations (Electronic Only) | 60 |
| Appendix C: Fleet Mix (Electronic Only) | 61 |
| Appendix D: Forecasting Factors (Electronic Only) | 62 |
| Appendix E: Uncontrolled 2020 Annual and Daily County-Level Emissions for Texas..... | 63 |
| Appendix F: Controlled 2020 Annual and Daily County-Level Emissions for Texas | 84 |
| Appendix G: Uncontrolled and Controlled Emission Raw Data (Electronic Only) | 105 |
| Appendix H: Quality Assurance and Quality Control Results (Electronic Only)..... | 106 |

LIST OF FIGURES

| | |
|--|----|
| Figure 1. Texas Counties Airport Map..... | 7 |
| Figure 2. Aircraft Operations. | 10 |
| Figure 3. 2019 LTOs by Airport Facility Groups. | 28 |
| Figure 4. Annual Energy Outlook (AEO) Military Jet Fuel and Commercial Aviation Gasoline Projection Factors (23)..... | 35 |
| Figure 5. Key Components of the AEDT Model..... | 39 |
| Figure 6. Percentage Contribution of Facility Groups to Statewide Emissions..... | 48 |

LIST OF TABLES

| | |
|--|----|
| Table 1. Controlled 2020 Annual Emissions by Criteria Pollutant (Tons/Year). | 3 |
| Table 2. Controlled 2020 Summer Weekday Emissions by Criteria Pollutant (Tons/Day). | 3 |
| Table 3. Criteria Air Pollutants. | 5 |
| Table 4. Airport Emissions Sources by SCC per EPA. | 6 |
| Table 5. Aircraft and Related Emissions (Adapted from Aviation Emissions, Impacts and Mitigation: A Primer (5)). | 11 |
| Table 6. The Number of Airport Facilities in Texas by Facility Type and Use. | 15 |
| Table 7. Texas Commercial Service Airports. | 16 |
| Table 8. Texas Reliever Airports. | 17 |
| Table 9. The Number of Other Public and Private Facilities in Texas by Type and Use.... | 19 |
| Table 10. Annual LTOs for 29 Facilities Found in May 2021 5010 Dataset. | 27 |
| Table 11. Facility County Correction. | 29 |
| Table 12. Taxi-In and Taxi-Out Times for Commercial/Reliever Airports. | 30 |
| Table 13. Fleet Mix – Reconciling Data Gaps..... | 32 |
| Table 14. Projection Factors – Reconciling Data Gaps. | 34 |
| Table 15. 2019 and 2020 Operations and Projection Factors. | 35 |
| Table 16. Gate Electrification. | 37 |
| Table 17. GSE Electrification. | 37 |
| Table 18. Input data parameters for emissions sources as required by AEDT..... | 41 |
| Table 19. Representative Facility for Different Facility Groups. | 43 |
| Table 20. TTI and ERG – 2017 LTOs Comparison..... | 47 |
| Table 21. TOG Speciation Profile (Source: AEDT). | 53 |

LIST OF ACRONYMS AND ABBREVIATIONS

| Acronym | Definition |
|------------------|---|
| 5010 Dataset | FAA's Airport Master Record Dataset |
| AEDT | Aviation Environmental Design Tool |
| AEO | Annual Energy Outlook |
| AERR | Air Emissions Reporting Requirements |
| AirNav | A privately-owned website that publishes aeronautical and airport information |
| APU | Auxiliary Power Unit |
| ASPM | Aviation System Performance Metrics |
| ASQ/ANSI | American Society for Quality, American National Standard Institute |
| BTS | Bureau of Transportation Statistics |
| CAA | Clean Air Act |
| CAP | Criteria air pollutants |
| CERS | Consolidated Emissions Reporting Schema |
| CH ₄ | Methane |
| CNG | Compressed Natural Gas |
| CO | Carbon monoxide |
| CO ₂ | Carbon dioxide |
| CSA | Commercial Service Airports |
| DAL | Dallas Love Field International Airport |
| DFWA | Dallas/Fort Worth International Airport |
| EDMS | Emissions and Dispersion Modeling System |
| EI | Emission Inventories |
| EIA | Energy Information Administration's |
| EIS | Emissions Inventory System |
| EPA | Environmental Protection Agency |
| ERG | Eastern Research Group |
| FAA | Federal Aviation Administration |
| GSE | Ground Support Equipment |
| H ₂ O | Water |
| HAP | Hazardous Air Pollutants |
| HC | Hydrocarbons |
| LPG | Liquefied Petroleum Gas |
| LTO | Landing/Takeoff Cycles |
| MSA | Metropolitan Statistical Area |
| NAAQS | National Ambient Air Quality Standards |
| NCTCOG | North Central Texas Council of Governments |
| NEI | National Emissions Inventory |

| Acronym | Definition |
|---------------------------|--|
| NEPA | National Environmental Policy Act |
| NH ₃ | Ammonia |
| NO _x | Nitrogen oxides |
| NPIAS | National Plan of Integrated Airport Systems |
| OPSNET | FAA Air Traffic Operations and Delays Data |
| Pb | Lead and lead compounds |
| PM ₁₀ Primary | Primary (filterable + condensable) particulate matter with an aerodynamic diameter equal to or less than 10 microns |
| PM _{2.5} Primary | Primary (filterable + condensable) particulate matter with an aerodynamic diameter equal to or less than 2.5 microns |
| QA/QC | Quality Assurance and Quality Control |
| QAPP | Quality Assurance Project Plan |
| SCC | Source Classification Code |
| SIP | State Implementation Plans |
| SO ₂ | Sulfur dioxide |
| SO _x | Sulfur oxides |
| TAF | Terminal Area Forecast |
| TASP | Texas Airport System Plan |
| TCEQ | Texas Commission on Environmental Quality |
| TexAER | Texas Air Emissions Repository |
| TMFSC | Traffic Flow Management System Counts |
| TOGs | Total Organic Gases |
| TTI | Texas A&M Transportation Institute |
| TxDOT | Texas Department of Transportation |
| U.S. | United States |
| UHC | Unburned Hydrocarbons |
| VALE | Voluntary Airport Low Emission |
| VOC | Volatile organic compounds |
| XML | Extensible Markup Language |

EXECUTIVE SUMMARY

The Texas Commission on Environmental Quality (TCEQ) is required to submit periodic emission inventories (EIs) for all 254 Texas counties under the Air Emissions Reporting Requirements (AERR) to support the Environmental Protection Agency's (EPA) comprehensive three-year cycle National Emissions Inventory (NEI). Deliverables for this project include the development of the calendar year 2020 aircraft, auxiliary power unit (APU), and ground support equipment (GSE) non-road mobile source EI data required to be submitted to the EPA per the AERR. In addition to the 2020 AERR EI, statewide controlled and uncontrolled trend EIs were developed by projecting baseline emissions for all aircraft, APU, and GSE source categories to calendar years 2011 through 2050. The pollutants, reporting categories, spatial scope, and temporal scope are as follows.

- **Pollutants:** Criteria air pollutants (CAP), CAP precursors, hazardous air pollutants (HAPs), and other species of total organic gases (TOGs) reported by the emission modeling software.
- **Reporting Categories:** The emissions sources for this EI include nine aircraft and aircraft-related sources—six for the aviation and aircraft combination types, one for the APU, and two for the GSE (accounting for different fuel types). The sources are represented by EPA's source classification codes (SCC).
- **Spatial scope:** The emissions are computed separately for each facility and aggregated based on the reporting requirements. According to the EPA's AERR guidance, emissions for aircraft are only computed for landing/takeoff cycles (LTO) and capped by a mixing height¹ of 3,000 feet (ft) in altitude. An LTO cycle includes taxi-in, taxi-out, climb, and landing.
- **Temporal scope:** The temporal levels of coverage of the EI's are average summer weekday² (in units of tons per day) and annual calendar year (in units of tons per year). To develop the required analysis year EIs, the Texas A&M Transportation Institute (TTI) developed 2019 emissions (baseline) using the Federal Aviation Administration's (FAA) latest version of the Aviation Environmental Design Tool (AEDT)³ and projected the emissions to historical and future years by applying the appropriate projection factors.

¹ The height of the atmosphere where relatively vigorous mixing of pollutants and other gases takes place. Directly above the mixing height, the atmosphere is fairly stable and there is limited upward dispersion of polluted air. The mixing height varies both diurnally and seasonally.

² Since most of the airports do not report operations on a daily basis, the average summer weekday is estimated by dividing annual emissions by 365.

³ AEDT 3d was released on March 29, 2021 and is the latest version of AEDT.

Based on the activity information, airports were grouped such that priority could be given to the airports with the majority of activity. The airports were divided into the following categories based on the Texas Airport System Plan (TASP) and other attributes from FAA's Airport Master Record (5010) datasets.

- Commercial Service Airports
- Reliever Airports
- Other TASP Facilities
- Military Airports
- Medical Facility Heliports
- Farm or Ranch Facilities
- Other Public and Private Facilities

The 2019 activity data collected in the previous study (PGA 582-20-10956-014, results submitted to TCEQ in August 2020), such as LTO's, fleet mix, taxi times, and other critical data elements, were updated with more recently obtained activity data when available during the completion of this project. Detailed activity data was available for commercial and reliever airports. Since limited activity data were available for other facility groups, appropriate data reconciliation methods were used to obtain activity data for the facilities within these groups. Controlled emissions were obtained by considering two control measures: gate electrification and GSE electrification. Only the facilities where control measure information was available are included. The only difference between the uncontrolled and controlled inventories occurs for the GSE and APU categories.

As commercial and reliever airports had detailed activity data and had a significant impact on overall emissions in the EI, they were modeled individually. All other facility groups with less detailed data and overall emissions contributions to the EIs were modeled using a representative facility for each applicable facility group. AEDT provided emission rates for different modes for the aircraft operating in the facility group. These rates were then converted to emissions quantities based on the fleet mix and operations for individual airports.

The resulting emissions developed for this study were compared with previous aircraft EI for reasonableness. The total percent difference in LTOs between the studies is within one percent. Table 1 and Table 2 show the statewide controlled annual and average summer weekday criteria emissions, respectively.

The results showed that commercial and reliever airports account for the majority of the emissions. This percentage is even higher when considering the combined emissions from commercial, reliever, and TASP airports. This shows the significance of these airports to statewide emissions and warrants future studies that improve upon these facilities' activity data and emission models.

Developing EIs for these sources could be further refined by soliciting GSE and APU usage data from commercial service airports (CSA), exploring aircraft and engine-type mapping datasets, and developing prediction models to predict aircraft operations and fleet mix. See Chapter 8 of this report for further details.

Table 1. Controlled 2020 Annual Emissions by Criteria Pollutant (Tons/Year).

| SCC Description | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|---------------------------|----------|-----------------|-----------|-------------|-----------------|-------|
| Commercial Aviation | 1,442.72 | 7,272.28 | 8,682.06 | 65.53 | 689.2 | 0.78 |
| Air Taxi: Turbine | 148.74 | 716.18 | 489.49 | 8.9 | 53.96 | - |
| General Aviation: Piston | 457 | 27.95 | 23,751.64 | 12.7 | 24.4 | 13.77 |
| General Aviation: Turbine | 2,171.01 | 1,872.74 | 6,030.63 | 35.38 | 230.19 | - |
| Military | 788.67 | 511.48 | 4,466.01 | 10.11 | 87.34 | 0.12 |
| APU | 17.26 | 190.95 | 345.05 | 25.48 | 32.61 | - |
| GSE: Gasoline-fueled | 58.04 | 124.01 | 2,098.00 | - | - | - |
| GSE: Diesel-fueled | 19.19 | 140.58 | 38.63 | 4.13 | - | - |
| Total | 5,102.71 | 10,856.96 | 45,902.59 | 162.23 | 1,117.82 | 14.67 |

VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; PM₁₀ = particulate matter of less than 10 microns in diameter; PM_{2.5} = particulate matter of less than 2.5 microns in diameter; SO₂ = sulfur dioxide; Pb = Lead.

Table 2. Controlled 2020 Summer Weekday Emissions by Criteria Pollutant (Tons/Day).

| SCC Description | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|---------------------------|--------|-----------------|---------|-------------|-----------------|--------|
| Commercial Aviation | 3.953 | 19.924 | 23.786 | 0.180 | 1.888 | 0.002 |
| Air Taxi: Turbine | 0.408 | 1.962 | 1.341 | 0.024 | 0.148 | - |
| General Aviation: Piston | 1.252 | 0.077 | 65.073 | 0.035 | 0.067 | 0.038 |
| General Aviation: Turbine | 5.948 | 5.131 | 16.522 | 0.097 | 0.631 | - |
| Military | 2.161 | 1.401 | 12.236 | 0.028 | 0.239 | 0.0003 |
| APU | 0.047 | 0.523 | 0.945 | 0.070 | 0.089 | - |
| GSE: Gasoline-fueled | 0.159 | 0.340 | 5.748 | - | - | - |
| GSE: Diesel-fueled | 0.053 | 0.385 | 0.106 | 0.011 | - | - |
| Total | 13.980 | 29.745 | 125.761 | 0.444 | 3.063 | 0.040 |

1.0 INTRODUCTION

The TCEQ works with local planning districts, the Texas Department of Transportation (TxDOT), and TTI to develop EIs of air pollutants for meeting various regulatory requirements. Per the EPA's AERR, TCEQ is required to prepare and submit a comprehensive statewide periodic EI to support the EPA's NEI every three years. The three-year cycle inventory year for this work was 2020 and is due to the EPA by January 15, 2022.

This report describes work conducted by TTI on behalf of the TCEQ. Tasks involved the development of a comprehensive, statewide, non-road mobile 2020 analysis year aircraft, GSE, and APU source category EI required to be submitted to the EPA per the AERR and support revisions to various State Implementation Plans (SIP). In addition to the 2020 AERR EI, statewide controlled and uncontrolled trend EI's were also required within the project's scope. These were developed by projecting baseline emissions for all aircraft, GSE, and APU source categories to calendar years 2011 through 2050. TTI developed annual (tons per year) and average summer weekday (tons per day) controlled and uncontrolled EI estimates of CAPs, CAP precursors, and HAPs.

1.1 OBJECTIVE

The purpose of this document is to describe the methods and data used in the development of aircraft, GSE, and APU source category EI's for all 254 counties in Texas. The EI development methods described in this document were based on the EPA guidance for estimating non-road mobile airport source emissions. The EIs were developed for each of the analysis years from 2011 through 2050. An annual and average summer weekday controlled and uncontrolled EI is developed for each of these analysis years.

The following are the primary deliverables submitted for the 2020 AERR EI.

- Statewide projected 2020 AERR controlled and uncontrolled EIs for all airport facility sources, including aircraft, APU, and GSE, in a plain text file format.
- Statewide 2020 AERR controlled and uncontrolled EIs for all airport sources including aircraft, APU, and GSE developed in the Consolidated Emissions Reporting Schema (CERS) Extensible Markup Language (XML) format for loading into the Texas Air Emissions Repository (TexAER) as non-road sources.
- Statewide 2020 AERR controlled EI for all airport sources, including aircraft, APUs, and GSE developed in the CERS XML format for loading into the EPA Emissions Inventory System (EIS) as point sources.

The following are the primary deliverables submitted for 2011 through 2050 trend EIs.

- Statewide 2011 through 2050 controlled and uncontrolled annual and ozone season daily EIs for all airport facility sources, including aircraft, APU, and GSE in a plain text file format.
- Statewide 2011 through 2050 controlled and uncontrolled EIs for all airport sources, including aircraft, APUs, and GSE developed in the CERS XML format for loading into TexAER as non-road sources.

1.2 EMISSIONS INVENTORY SCOPE

The scope of the EI's to be developed in terms of the emissions sources, their applicable SCC, pollutants, geographic coverage, temporal details, control programs, and the basic emissions estimation methodology is described below.

The 2020 AERR EI and 2011 through 2050 trend EIs for airport sources include controlled and uncontrolled emissions estimates for CAPs, CAP precursors, HAPs, and other species of TOGs. Table 3 provides a list of CAPs and CAP precursors. Ammonia is not reported in this study as the airport emissions modeling software used in this study (FAA's AEDT) does not provide emissions estimates for ammonia.

Table 3. Criteria Air Pollutants.

| Pollutant | Description |
|---------------------------|--|
| VOC | Volatile organic compounds |
| NO _x | Nitrogen oxides |
| CO | Carbon monoxide |
| PM ₁₀ Primary | Primary (filterable + condensable) particulate matter with an aerodynamic diameter equal to or less than 10 microns |
| PM _{2.5} Primary | Primary (filterable + condensable) particulate matter with an aerodynamic diameter equal to or less than 2.5 microns |
| Pb | Lead and lead compounds |
| NH ₃ | Ammonia |
| SO ₂ | Sulfur dioxide |

HAP emissions and other species of TOGs were estimated by applying speciation profiles (or HAP fractions) to the TOG emission estimates obtained from AEDT. The speciation profiles are obtained from the AEDT database. Appendix A lists the HAPs and other TOG-speciated gases included in this study and their mass fraction.

This study used EPA's guidance to choose different airport-related sources for which emission estimates are reported separately. The emissions sources for this EI include nine aircraft and aircraft-related sources—six for the aviation and aircraft combination

types, one for the APU, and two for the GSE (accounting for different fuel types). AEDT did not provide emissions for compressed natural gas (CNG) and Liquefied petroleum gas (LPG); thus, these SCC were not reported. The sources are represented by EPA's SCC listed in Table 4. Emissions for all nine SCC are reported under the point data category. Pollutants emitted by one source might not be by others, depending on the fuel used by different sources.

Table 4. Airport Emissions Sources by SCC per EPA.

| SCC | SCC Description |
|------------|---|
| 2275020000 | Commercial Aviation |
| 2275060011 | Air taxis: Piston Driven* |
| 2275060012 | Air taxis: Turbine Driven |
| 2275050011 | General Aviation: Piston Driven |
| 2275050012 | General Aviation: Turbine Driven |
| 2275001000 | Military |
| 2275070000 | APUs |
| 2268008005 | GSE: Compressed natural gas (CNG)-fueled** |
| 2270008005 | GSE: Diesel-fueled |
| 2265008005 | GSE: Gasoline-fueled |
| 2267008005 | GSE: Liquefied petroleum gas (LPG)-fueled** |

*Fleet mix data only had jet or turbine engines for air taxis, thus no emissions are reported for Air taxis: Piston Driven category.

**AEDT did not provide emissions for GSE: CNG-fueled and GSE: LPG-fueled SCC.

The emissions are computed separately for each facility and reported at the individual facility level for the EPA's EIS XML reporting. The emissions are aggregated to the county level for TexAER reporting. Figure 1 shows the map of all Texas airport facilities. The geographical scope encompasses all 254 Texas counties and all airport facilities within those counties.

The temporal levels of coverage of the EIs are average daily (in units of tons per day) and annual calendar year (in units of tons per year). The average summer weekday is an average Monday through Friday for the June through August period.

According to the EPA's AERR guidance, aircraft source emissions are computed for LTOs and capped by a mixing height of 3,000 feet in altitude. An LTO cycle includes taxi-in, taxi-out, climb, and landing.

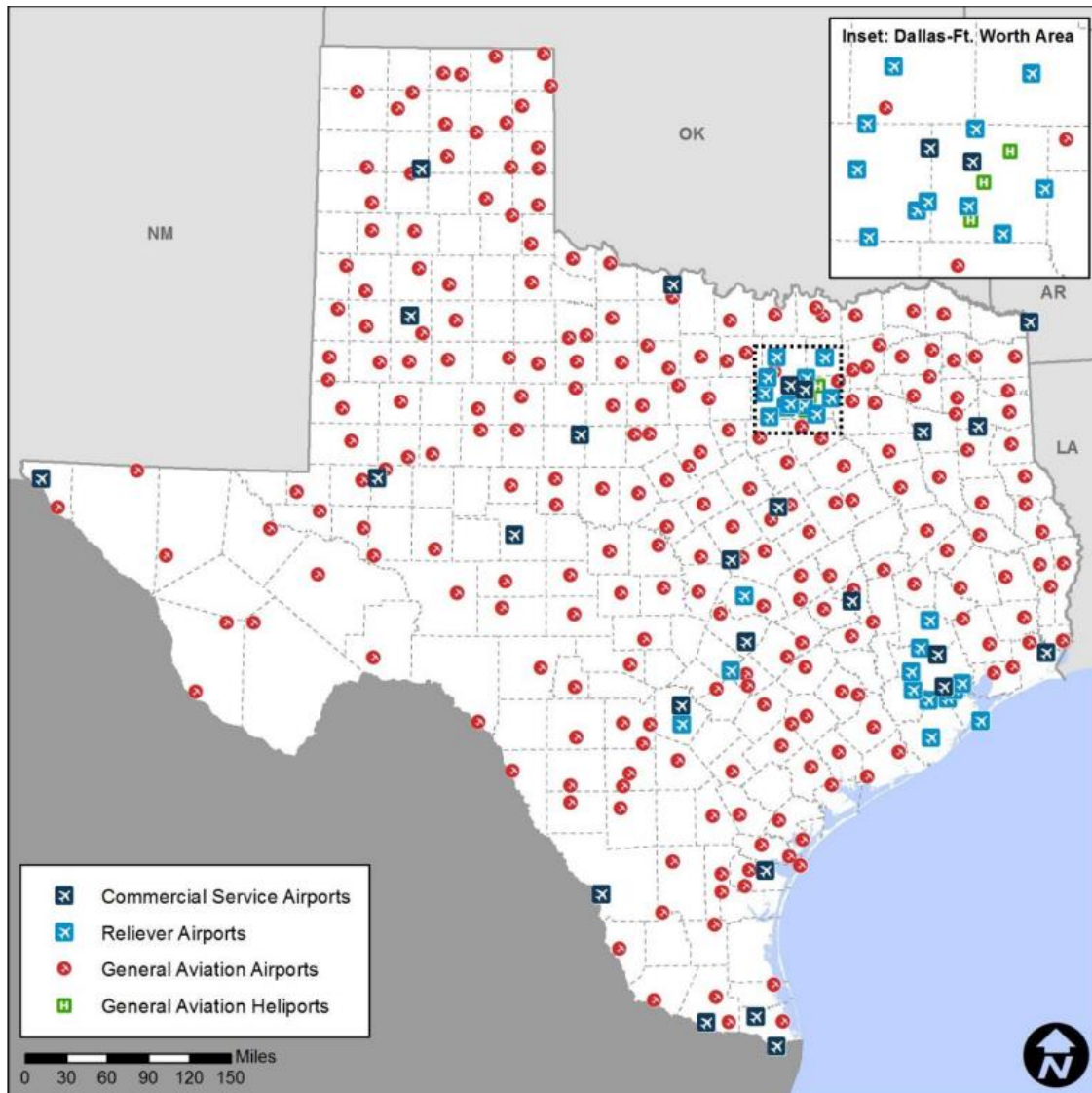


Figure 1. Texas Counties Airport Map.

1.3 ORGANIZATION

This report is organized as follows.

- **Section 2** provides the background on the relevant regulations that warranted these EIs, major aircraft emission processes for EIs, control strategies, and prior studies on aircraft emissions development.
- **Section 3** provides an overview of the methodology for developing the EIs.
- **Section 4** delineates the various datasets used in this study and provides details on the finalized data used.

- **Section 5** details the emission modeling procedure. It provides an overview of AEDT and expounds on the AEDT model parameters used for different facility groups.
- **Section 6** provides information on the development and preparation of reporting files per appropriate guidance and following the requests of the TCEQ project manager.
 - 2011 through 2050 electronic activity data reporting files for all source categories per guidance provided by EPA.
 - Statewide 2020 AERR EIs for all airport sources in the CERS XML format suitable for loading into TCEQ's TexAER as non-road sources and EPA's EIS as point sources.
 - Statewide trend EIs in the CERS XML format suitable for loading into TexAER as non-road sources.
- **Section 7** provides information on the quality assurance and quality control (QA/QC) procedures and project management processes employed to develop airport EIs.
- **Section 8** concludes this report and provides recommendations for future work.

2.0 BACKGROUND

This section provides background on the pertinent regulations warranting aircraft and airport equipment EI development, an overview of airport emissions, and a synthesis of the literature on previous airport EIs developed for Texas.

2.1 REGULATIONS

There are several regulations governing aircraft emissions at the federal and state level. Under the Clean Air Act (CAA), the EPA sets the national ambient air quality standards (NAAQS) for six CAPs: NO₂, SO₂, PM, CO, O₃, and Pb (1). The FAA enforces EPA's aircraft engine emissions standards through its certification regulations. In addition to these regulatory standards at the federal level, several permitting programs are administered by state agencies. The National Environmental Policy Act (NEPA) (2) applies to airport construction projects to ensure that the projected project emissions in the nonattainment areas conform to the respective SIPs. TCEQ is required under the CAA to determine how best to meet the CAA goals through developing SIPs to achieve the NAAQS. The process of determining compliance with the SIPs requires accurate quantification of the emissions from existing airport operations and other related emission sources, including the use of APUs and GSE. Comparisons of airport emissions projected from the established inventory baseline are made, in combination with emissions from other major source categories, to evaluate impacts of projected emissions in relation to emissions thresholds quantified in the SIP.

2.2 AIRCRAFT EMISSIONS

The majority of airport emissions can be attributed to aircraft operations (shown in Figure 2) that can be broadly classified into two categories based on the altitude at which they occur. (3)

- LTO: this corresponds to all operations below an altitude of 3,000 feet (1,000 meters). These operations correspond to taxi-in, taxi-out, takeoff, and landing.
- Cruise: this corresponds to operations that occur above an altitude of 3,000 feet (1,000 meters) and include a climb to cruise altitude, cruise, and descent from the cruise.

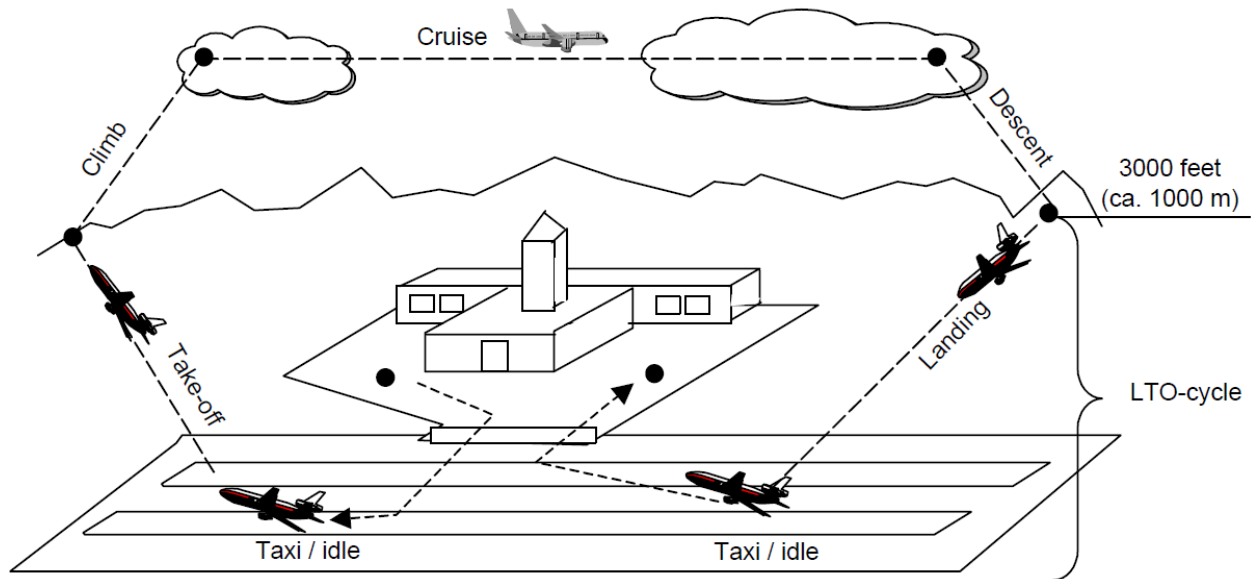


Figure 2. Aircraft Operations.

Per the EPA's AERR guidance, this study only computed the emissions from LTOs—capped by a mixing height of 3,000 feet.

Key pollutants released by aircraft are CO₂, H₂O, NO_x, SO_x, CO, PM, partially combusted or unburned hydrocarbons (HC), and other trace compounds. Except for CO and HCs, most aircraft emissions (approximately 70-90 percent) are released during aircraft operations that occur at 3,000 feet or higher altitudes. The remaining airport emissions are released during ground-level operations and operations that occur below 3,000 feet. Most CO and HC emissions (approximately 70 percent) are released during ground-level operations when engines operate at their lowest combustion efficiency. The remaining emissions of these pollutants occur during operations above 3,000 feet (4). The different aircraft pollutant emissions and their sources are described in Table 5. The amount of emissions depends on three main factors, namely 1) fuel composition, especially the presence of sulfur and complex compounds that reduce the combustion efficiency, 2) aircraft operations related to the amount of time, efficiency, and fuel spent during different operations, and 3) aircraft construction material and technological sophistication.

Table 5. Aircraft and Related Emissions (Adapted from Aviation Emissions, Impacts and Mitigation: A Primer (5)).

| Pollutant | Description | Emission Source |
|------------------|---|---|
| CO ₂ | Carbon dioxide is the product of the complete combustion of hydrocarbon fuels like gasoline, jet fuel, and diesel. Carbon in fuel combines with oxygen in the air to produce CO ₂ . | Aircraft, APUs, GSEs, vehicles, stationary power plants, construction equipment |
| H ₂ O | Water vapor is the other product of complete combustion as hydrogen in the fuel combines with oxygen in the air to produce H ₂ O. This is the source of water in condensation trails (contrails). | Aircraft, APUs, GSE, vehicles, stationary power plants, construction equipment |
| NO _x | Nitrogen oxides are produced when air passes through high temperature/high-pressure combustion, and nitrogen and oxygen present in the air combine to form NO _x . NO _x contributes to ozone and secondary particulate matter formation. | Aircraft, APUs, GSE, vehicles, stationary power plants, construction equipment |
| HC | Hydrocarbons are emitted due to incomplete fuel combustion. They are often referred to as unburned hydrocarbons (UHC) or volatile organic compounds (VOCs). Some of the compounds in the HC emissions are toxic and hazardous air pollutants (HAPs). HC contributes to ozone formation. | Aircraft, APUs, GSE, vehicles, stationary power plants, construction equipment |
| CH ₄ | Methane is the most basic hydrocarbon. Commercial aircraft are net consumers of methane during cruise and are not listed in the emissions source column. The net impact of methane from airport sources is highly dependent on local circumstances. | APUs, GSE, vehicles, stationary power plants, construction equipment |
| CO | Carbon monoxide is formed due to the incomplete combustion of the carbon in the fuel. CO contributes to ozone formation. | Aircraft, GSE, vehicles, construction equipment |
| SO _x | Sulfur oxides are produced when small quantities of sulfur, present in essentially all petroleum fuels, combine with oxygen from the air during combustion. SO _x contributes to secondary particulate matter formation. | Aircraft, APUs, GSE, construction equipment |
| PM | Particulate matter is small particles of soot (a.k.a. black carbon) formed due to incomplete combustion. | Aircraft, APUs, GSE, vehicles, stationary power plants, construction equipment |

2.3 CONTROL STRATEGIES

To reduce emissions from aircraft operations and GSE, several emissions control measures have been implemented. These measures include using hybrid, electric, compressed natural gas, and alternative fuel vehicles. The FAA and EPA initiated the Voluntary Airport Low Emission (VALE) program which encourages airports to use low-emission vehicles, develop infrastructure for alternative fuels, supply gate electricity and

air for parked aircraft, and other emission reduction options (6). In addition to emissions from aircraft operations, emission reductions associated with these emission control measures can also be quantified. Information about the VALE program (7) implemented at various airports was also acquired to account for control strategies in the EIs developed for this project.

The use of gate electrification reduces the time APUs are operating during an LTO cycle by a percentage identified by the airport personnel. APU emission estimates for aircraft operations can be acquired directly from the AEDT model. The uncontrolled APU emission estimates from the AEDT were reduced by the APU percentage usage reduction reported by the airports to reflect the use of electricity and preconditioned air.

2.4 PRIOR STUDIES

The following sections provide details for previous airport EI studies conducted for Texas and the Dallas/Fort Worth metropolitan area. Three studies were reviewed for this project.

- Eastern Research Group (ERG) 2011 Statewide Airport Emissions Inventory Report
- North Central Texas Council of Governments (NCTCOG) Study, 2011
- ERG Study, 2017; EPA 2017 NEI

The ERG 2017 airport activity and emissions data set was used as the baseline for this study. The four studies are described below.

2.4.1 ERG 2011 Statewide Airport Emissions Inventory Report

The ERG prepared the 2011 EIs for CAPs and HAPs for Texas airports (8) in 2012, excluding the NCTCOG's (DFW Metropolitan Planning Organization) Metropolitan Statistical Area (MSA) counties⁴, to support the SIP and other airport-related inquiries. ERG acquired the Texas airport activity data from several sources. These sources included US Department of Transportation data (i.e., the T-100 dataset from the Bureau of Transportation Statistics [BTS], and the FAA's Terminal Area Forecast [TAF] dataset, and the 5010 dataset), direct contacts with medium and large airports, and by internet searches of airport websites. Out of the total of 35 airports selected for direct contact, which accounted for 32 percent of activity in Texas according to the 2008 Texas airports inventory (excluding airports from the Dallas/Fort Worth area), the response rate consisted of 40 percent of airports reporting 2011 operations data, 26 percent reporting taxi time estimates, and 11 percent reporting control strategies information. For an

⁴ Collin, Dallas, Denton, Ellis, Henderson, Hood, Hunt, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties

additional 9 percent of the airports, ERG acquired data by conducting internet searches. Depending on the level of detail available, ERG used two emissions estimation methods. For activity data that included aircraft-specific data (i.e., only commercial aircraft and air taxi aircraft), ERG used the FAA's Emissions and Dispersion Modeling System (EDMS) to estimate emissions. Where aircraft-specific detail was not available, ERG applied a more general approach by aviation type (i.e., air taxis, general aviation, and military).

2.4.2 NCTCOG Study, 2011

NCTCOG in 2011 (9) developed an EI and activity data for airports in the DFW twelve county MSA that covers Collin, Dallas, Denton, Ellis, Henderson, Hood, Hunt, Johnson, Kaufman, Parker, Rockwall, and Tarrant Counties. The inventory consisted of CAPs, CAP precursors, and HAPs and was used for SIP development. The data collection process consisted of gathering data from BTS and FAA data sets as described in sections 3.2 and 3.3 and through an online data request application to gather specific inputs and activity data required for emissions modeling. Out of the total of 344 facilities identified providing aviation-related services such as airports, heliports, or glideports, data was obtained for 62 facilities. Among the 62 facilities, Dallas Love Field International Airport (DAL) and Dallas/Fort Worth International Airport (DFW) were identified as major commercial facilities with significant activities. Additionally, 28 facilities were identified as significant airports due to annual operations of more than 18,000 LTOs or being included in the National Plan of Integrated Airport Systems (NPIAS). The remaining 32 airports were grouped as "other" and had less than 18,000 annual operations reported. The resulting activity data was used to model the EIs using the FAA's EDMS. Activity data were available for medium and large airports and was directly used to estimate emissions. Data gaps for smaller airports, air taxis, general aviation, and military aircraft were addressed following the EPA's NEI guidance. In addition to activity data, information obtained from emission control strategies was utilized to evaluate these strategies' impact on the EIs.

2.4.3 ERG Study, 2017

Similar to the study conducted in 2011, ERG prepared activity and EIs for aircraft operations to meet EPA's AERR for 2017 (10, 11). ERG followed the same protocols for activity characterization and emissions estimation as done for the 2011 study. ERG used the FAA's AEDT model for this analysis, replacing the FAA's earlier EDMS for modeling airport emissions. ERG increased the number of airports from which they acquired information through direct contact compared to the previous study. Of the 2,016 airports in Texas, ERG contacted a total of 213 airports and obtained information on the LTO data, taxi times, emission control strategies, and seasonality of activities to help with summertime emissions estimation. Response rates consisted of 23 airports

providing operation data, 15 reporting taxi time data, and 9 providing control strategy and seasonality information. The resulting 2017 activity and emissions data were projected using the FAA's TAF datasets.

3.0 METHODOLOGY

The EI estimation in this study consisted of grouping the facilities into different categories based on the hub sizes and the type of operations. Next, the modeling resolution for different facility groups was selected based on the facility group's data availability and the facility group's contribution to the EIs with respect to the emissions from other facility groups. After distributing the facilities into facility groups and determining the modeling resolution, FAA's AEDT tool was used to obtain emission quantities and emission rates. These quantities and rates were then post-processed to develop the EIs. The following sections describe the facility group categorization, emission modeling, and post-processing.

3.1 FACILITY GROUPS CATEGORIZATION

Airports have different hub sizes (small, medium, and large) and vary by operations. From a modeling and data collection perspective, it was necessary to group these airports such that priority could be given to the airports with the majority of the activity. The 5010 dataset (12) was considered the baseline. Information such as airport size, type, usage, contacts, operations, etc., for 2,032 operational facilities was acquired. Table 6 provides a breakdown of the airports by facility type and public or private use extracted from the 5010 data.

Table 6. The Number of Airport Facilities in Texas by Facility Type and Use.

| Facility Type | Public-Use | Private-Use |
|---------------|------------|--------------|
| Airport | 385 | 1,087 |
| Heliport | 6 | 545 |
| Gliderport | 0 | 5 |
| Seaplane Base | 1 | 0 |
| Ultralight | 0 | 8 |
| Total | 392 | 1,645 |

The airports and heliports in the state that perform an essential role in Texas's economic and social development are identified in the TxDOT's TASP. Two hundred eighty-five airports and three heliports meet the TxDOT requirements of the TASP (13). All commercial and reliever airports are included in TASP but are considered separately in this study due to their substantial influence on the EIs. Using this information and other attributes from the 5010 dataset, the 5010 airport list was divided into the following categories.

- Commercial Service Airports
- Reliever Airports
- Other TASP Facilities
- Military Airports
- Medical Facility Heliports
- Farm or Ranch Facilities
- Other Public and Private Facilities

For this study, commercial service airport and reliever airport categories received TTI's greatest focus for data collection and modeling since these have the most emission-generating activity. The following subsections describe each of these airport categories and details how they are selected.

3.1.1 Commercial Service Airports

The TASP report provided a list of commercial service airports. These facilities offer scheduled service by major airlines (American, Delta, Continental, Southwest, etc.), national airlines (US Air, etc.), and regional airlines (American Eagle, SkyWest, etc.). A total of 26 Texas facilities fall under this category. These airports support scheduled passenger service by large and medium transport aircraft, defined as those facilities that enplane at least 2,500 - 10,000 passengers annually (13). All the Commercial Service airports provide access to business jets and commercial jet transport aircraft. TxDOT commercial service airports (in Texas) are listed in Table 7.

Table 7. Texas Commercial Service Airports.

| Airport ID | Airport Name | Associated City | Associated County |
|------------|-------------------------------------|----------------------|-------------------|
| ABI | Abilene Rgnl | Abilene | Taylor |
| ACT | Waco Rgnl | Waco | Mclennan |
| AMA | Rick Husband Amarillo Intl | Amarillo | Potter |
| AUS | Austin-Bergstrom Intl | Austin | Travis |
| BPT | Jack Brooks Rgnl | Beaumont/Port Arthur | Jefferson |
| BRO | Brownsville/South Padre Island Intl | Brownsville | Cameron |
| CLL | Easterwood Fld | College Station | Brazos |
| CRP | Corpus Christi Intl | Corpus Christi | Nueces |
| DAL | Dallas Love Fld | Dallas | Dallas |
| DFW | Dallas-Fort Worth Intl | Dallas-Fort Worth | Tarrant |
| DRT | Del Rio Intl | Del Rio | Val Verde |
| ELP | El Paso Intl | El Paso | El Paso |
| GGG | East Texas Rgnl | Longview | Gregg |
| HOU | William P Hobby | Houston | Harris |
| HRL | Valley Intl | Harlingen | Cameron |
| IAH | George Bush Intcntl/Houston | Houston | Harris |

| Airport ID | Airport Name | Associated City | Associated County |
|------------|---------------------------------|-----------------|-------------------|
| ILE | Skylark Fld | Killeen | Bell |
| LBB | Lubbock Preston Smith Intl | Lubbock | Lubbock |
| LRD | Laredo Intl | Laredo | Webb |
| MAF | Midland Intl Air And Space Port | Midland | Midland |
| MFE | Mc Allen Miller Intl | Mc Allen | Hidalgo |
| SAT | San Antonio Intl | San Antonio | Bexar |
| SJT | San Angelo Rgnl/Mathis Fld | San Angelo | Tom Green |
| SPS | Sheppard Afb/Wichita Falls Muni | Wichita Falls | Wichita |
| TYR | Tyler Pounds Rgnl | Tyler | Smith |
| VCT | Victoria Rgnl | Victoria | Victoria |

Source: Texas Department of Transportation, Aviation Division, 2010.

3.1.2 Reliever Airports

Reliever airports are located within a major metropolitan area and provide alternative airport facilities for general aviation users to relieve congestion at the larger commercial service airports. These were also identified based on the TASP report. There are 25 existing reliever airports in the TASP, as shown in Table 8.

Table 8. Texas Reliever Airports.

| Airport ID | Airport Name | Associated City | Associated County |
|------------|---------------------------|-----------------------|-------------------|
| ADS | Addison | Dallas | Dallas |
| AFW | Fort Worth Alliance | Fort Worth | Tarrant |
| AXH | Houston-Southwest | Houston | Fort Bend |
| CXO | Conroe-North Houston Rgnl | Houston | Montgomery |
| DTO | Denton Enterprise | Denton | Denton |
| DWH | David Wayne Hooks Meml | Houston | Harris |
| EFD | Ellington | Houston | Harris |
| FTW | Fort Worth Meacham Intl | Fort Worth | Tarrant |
| FWS | Fort Worth Spinks | Fort Worth | Tarrant |
| GKY | Arlington Muni | Arlington | Tarrant |
| GLS | Scholes Intl At Galveston | Galveston | Galveston |
| GPM | Grand Prairie Muni | Grand Prairie | Tarrant |
| GTU | Georgetown Muni | Georgetown | Williamson |
| HQZ | Mesquite Metro | Mesquite | Dallas |
| HYI | San Marcos Rgnl | Austin | Caldwell |
| IWS | West Houston | Houston | Harris |
| LBX | Texas Gulf Coast Rgnl | Angleton/Lake Jackson | Brazoria |
| LNC | Lancaster Rgnl | Lancaster | Dallas |
| LVJ | Pearland Rgnl | Houston | Brazoria |
| RBD | Dallas Exec | Dallas | Dallas |
| SGR | Sugar Land Rgnl | Houston | Fort Bend |
| SKF | Kelly Fld | San Antonio | Bexar |

| Airport ID | Airport Name | Associated City | Associated County |
|------------|---------------|-----------------|-------------------|
| SSF | Stinson Muni | San Antonio | Bexar |
| T41 | La Porte Muni | La Porte | Harris |
| TKI | Mckinney Ntl | Dallas | Collin |

Source: Texas Department of Transportation, Aviation Division, 2010

3.1.3 Other TASP Facilities

Other TASP facilities (listed as a category in the TASP) include general aviation, business/corporate, community service, basic service, and general aviation heliports. General aviation airports (i.e., airports consisting of all aircraft operations that are not scheduled commercial service or reliever or military) represent most of the facilities included in the Other TASP facilities category. This category includes 234 operational airports, which include the following airport types (13).

General aviation airports consist of all aircraft operations that are not scheduled for commercial service or military. The airports that serve this segment of aviation represent many of the facilities included in the TASP.

Business/corporate airports provide access to turboprop and turbojet business aircraft and are located where there is sufficient population or economic activity to support a moderate to a high level of business jet activity and/or to provide capacity in metropolitan areas.

Community service airports provide primary business access to smaller communities throughout the state, add capacity in many metropolitan areas, and provide access to agricultural and mineral production areas.

Basic service airports are located within the service area of commercial service, reliever, business/corporate, or community service airports or may be located in remote areas of the state. These airports typically have very low usage and provide additional convenience for clear weather flying and training operations.

General aviation heliports accommodate helicopters used by individuals, corporations, and helicopter taxi and medical services. Scheduled passenger service may be available if ample demand exists.

3.1.4 Military Airports

The military airports include a total of 20 operational⁵ facilities that are owned by a branch of the United States military as identified in the 5010 dataset. Seventeen of these are listed as private-use airports, and three are listed as private-use heliports.

3.1.5 Medical Facility Heliports

Medical facilities were identified from the 5010 dataset. A total of 201 facilities were tagged as medical use in the database. All are classified as heliports.

3.1.6 Farm or Ranch Facilities

TTI extracted farm or ranch facilities from the 5010-dataset based on facility name (i.e., facility names that contained the word “farm” or “ranch”). A total of 486 facilities were placed in this group. Of these, 464 were classified as airports, 20 were as heliports, and two as ultralight facilities.

3.1.7 Other Public and Private Facilities

These are catch-all airports that were not included in any of the previous classifications. A total of 1,045 facilities are included in this category. Table 9 provides a breakdown of facilities under this group by facility type and public or private use.

Table 9. The Number of Other Public and Private Facilities in Texas by Type and Use.

| Facility Type | Public-Use | Private-Use |
|---------------|------------|-------------|
| Airport | 89 | 620 |
| Heliport | 3 | 321 |
| Gliderport | 0 | 5 |
| Seaplane Base | 1 | 0 |
| Ultralight | 0 | 6 |
| Total | 93 | 952 |

3.2 ACTIVITY DATA

The 2019 aircraft operations, associated projection factors, fleet mix, taxi times, and other critical data elements were collected for emissions modeling. Detailed activity data was available for commercial and reliever airports. Limited activity data were available

⁵ Kelly Field airport in San Antonio and Wichita Falls Municipal in Wichita Falls are owned by the military, but fall under reliever and commercial categories respectively, they are not counted in the military category.

for other facility groups; appropriate data reconciliation methods were used to obtain activity data for the facilities within these facility groups.

The following are the various aircraft and airport-equipment activity components that were needed for modeling 2019 emissions and projecting the emissions for past and future years. The data chapter provides details on the finalized activity data.

3.2.1 Aircraft Activity- LTO

LTO refers to the number of aircraft that land and take off at any airport. LTOs are typically equal to the number of total aircraft operations (the sum of all arrivals and departures, as reported by the airports) divided by 2. Most aircraft go through a similar sequence during a complete operating cycle. Helicopters may combine specific modes such as takeoff and climb out. The aircraft engines operate at a standard power setting for a given aircraft category during each mode of operation.

3.2.2 Projection Factors

These factors are used to obtain operation estimates for historical and future years. This study collected the operations and other activity data for 2019. This data was used for emission modeling and obtaining the 2019 emissions. The projection factors were then used to backcast and forecast the 2019 emissions to other years. The projection factors are obtained from the TAF dataset and the United States (U.S.) Energy Information Administration's (EIA) annual energy outlook (AEO) dataset.

3.2.3 Fleet-Mix and Engine Assignments

For a single LTO cycle, aircraft emissions vary considerably depending on the category of aircraft and the resulting typical flight profile. Aircraft activity for each facility is a critical modeling element needed for this study. The AEDT model treats each aircraft as a combination of a specific aircraft type (or airframe) and engine combination. There may be several different engine types available for use for each aircraft type, and emission factors may vary from engine to engine. Consequently, different aircraft may generate identical emissions because they are equipped with identical engines. Older aircraft may be outfitted with technologically newer engines and generate fewer emissions.

3.2.4 Taxi-In and Taxi-Out Times

Taxi/idle time, whether from the runway to the gate (taxi/idle-in) or from the gate to the runway (taxi/idle-out), depends on the size and layout of the airport, the amount of traffic, or congestion on the ground, and airport-specific operational procedures. Taxi/idle time can vary significantly for each airport throughout the day, as aircraft

activity changes, and seasonally, as general travel activity increases and decreases. Airport-specific taxi times can be used to estimate emissions for all modeled airports, where available.

3.2.5 GSE Inventory

The GSE source category comprises vehicles or engines needed to support the aircraft while at the terminal or initiating takeoff. Prior to aircraft departure, GSEs are present to load baggage, food, and fuel. When an aircraft departs from a gate, a tug may be used to push or tow the aircraft away from the gate and to the taxiway. Aircraft require a mix of GSE that includes the following:

- External air conditioners
- Compressors to help with engine starts
- Aircraft tractors or tugs
- Baggage tractors
- Belt loaders
- Cabin service trucks
- Catering trucks
- Lavatory trucks
- Water supply trucks
- External generators
- Hydrant fueling trucks

3.2.6 APUs

When large aircraft are on the ground with their engines shut down, they need power and preconditioned air to maintain their operability. If a ground-based power and air source are unavailable, an APU, which is part of the aircraft, is operated. These units are essentially small jet engines, which generate electricity and compressed air. They burn jet fuel and generate exhaust emissions like larger engines. In use, APUs essentially run at full throttle. Some large airports may have converted their APU source of energy to electricity.

3.3 EMISSION MODELING

The emissions were estimated using AEDT. TTI modeled 2019 emissions and used projection factors to backcast and forecast the emissions.

Commercial and reliever airports had detailed activity data. They had a significant impact on emissions in the EI, thus were modeled individually. AEDT provided emission quantities by aircraft and modes for each facility.

All other facility groups with less detailed data and lower contribution to the EIs were modeled using a representative facility for that facility group. AEDT provided emission rates for different modes for the aircraft operating in the facility group. These rates were then converted to emission quantities based on the fleet mix and operations for individual facilities.

3.4 POST PROCESSING

The emissions results were required to be reported by SCC, as listed in Table 4. To aggregate the emissions by aircraft to emissions by SCC, TTI used the traffic flow management system counts (TFMSC) dataset and AEDT airframe table (for airframes absent in the TFMSC data) to determine the engine types and aviation types for an aircraft (14). After adding the respective SCC labels to the aircraft, TTI aggregated the emissions by SCC within each facility.

In addition to adding the SCC labels, TTI used speciation tables from the AEDT database (identical to those provided by EPA) to speciate the organic gases into various species. Appendix A provides the TOG speciation profiles used in this study. Note that some pollutants might be present for one category but can be absent for others. This is because these different categories use different fuel types.

Also, lead emissions for air taxis and general aviation activity associated with piston aircraft were prepared using the latest EPA-approved emission factors for aviation gasoline (15). The following equation is used to estimate lead emissions based on the fuel consumption for each LTO cycle for piston-engine aircraft:

$$E_{pb} = \frac{FC}{D_{Avgas}} \times LC \times Rt = \frac{FC}{2707.946} \times 2.12 \times 0.95 = FC \times 0.000743737$$

Where,

E_{pb} = Lead estimate (tons of lead)

FC = Aviation gas fuel consumption (tons). (AEDT reports fuel consumption in tons.)

LC = Lead content of aviation gas (2.12 grams lead/gallon of fuel)

Rt = Lead retention rate 95 percent

D_{Avgas} = Aviation gas density (2707.946 gram/ gallon at 15°C) (16)

4.0 DATA

Compiled activity data, control strategy information, and airport facility data developed during the previous aircraft, APU, and GSE activity data collection project was used to develop the required modeling input files for use with AEDT and to further process and analyze the output file data as needed (17). The following section lists the data sources used in this study. The subsequent sections describe the finalized activity data and control strategies used in this study.

4.1 DATA SOURCES

This section describes the various activity data sources. The primary data sources include the FAA, EPA, AirNav, TxDOT, and EIA. The FAA provides various activity data, including data on operations, fleet-mix, and taxi-in and-out times. The EPA website has data from previous national inventories on non-road mobile source emissions. AirNav is a privately-owned website that publishes airport-related data. TxDOT resources provided a list of airports that play a significant role in Texas's economic and social development. EIA's AEO data provides the projection factors for facilities where projection factor information was not available through FAA.

4.1.1 FAA

The FAA, formerly the Federal Aviation Agency, was established by the Federal Aviation Act of 1958 (72 Stat. 731). The agency became a component of the Department of Transportation in 1967 pursuant to the Department of Transportation Act (49 U.S.C. 106). It regulates civil aviation and U.S. commercial space transportation, maintains and operates air traffic control and navigation systems for civil and military aircraft, and develops and administers programs relating to aviation safety and the National Airspace System. It also hosts airport operations and performance data, including historical traffic counts, traffic forecasts of aviation activity, and delay statistics. The following subsections list the FAA datasets used in this study.

4.1.1.1 Airport Master Record (5010) Dataset

The FAA collects, maintains, and disseminates accurate, complete, and timely airport data for the safe and efficient running of the air transportation system. FAA Airport Master Record Form 5010 provides airport-specific data, contact information, and operation counts for public and private-use airports (12). Airport location, contact information, other operational information was used from this dataset.

4.1.1.2 TAF Dataset

The TAF dataset includes forecasts for active airports in the NPIAS and contains historic and forecast data for enplanements, airport operations, Terminal Radar Approach Control operations, and based aircraft. TAF data covers 264 FAA towered airports, 256 Federal contract tower airports, 30 terminal radar approach control facilities, and 2,790 non-FAA airports (18). TTI extracted, summarized, and analyzed the TAF data for the years 1990 through 2045.

4.1.1.3 Traffic Flow Management System Counts (TMFSC)

The TMFSC provides information on traffic counts by the airport, grouped by aircraft type or by the hour of the day. The TMFSC is valuable from the seasonality and fleet mix standpoint. This data is available for each month for the year 2019 by arrival and departure. Data for 2020 is also available. An initial assessment showed that operations data for major commercial airports such as DFW, IAH, DAL, and others closely matched what was published in the TMFSC for 2019. In TMFSC, data are arranged by the following:

- flight type (domestic, foreign, US to foreign, foreign to the US)
- source-provided user class (commercial, air taxi, freight, general aviation, military, other)
- value-added equipment type (piston, turbine, jet, helicopter, other)
- value-added equipment weight class (heavy, 757, large jets, medium, small, other)
- business jets
- regional jets

4.1.1.4 Operations Network (OPSNET)

The OPSNET dataset contains the FAA air traffic operations and delays data reported daily. The 2019 extracted data provides departure and arrival operations sorted by TMFSC user class (19).

4.1.1.5 Aviation System Performance Metrics (ASPM)

The ASPM provides data on airport weather, runway configuration, and airport arrival and departure rates. This combination of flight and airport information provides a complete picture of air traffic activity for these airports and air carriers. The data also contains actual and unimpeded taxi times by the airport (20).

4.1.2 TxDOT Planning Airports

The TASP prepared by TxDOT helped identify the airports and heliports that play a significant role in Texas's economic and social development (13). A total of 295 facilities

are included in the TASP. Airports with international customs facilities are flagged in the data.

4.1.3 EPA's NEI

EPA's NEI database emissions source types include construction equipment, lawn and garden equipment, aircraft GSE, locomotives, commercial marine vessels, and other non-road sources (21). The database only contains emissions summaries by county.

4.1.4 AirNav

AirNav is a privately-owned website that publishes aeronautical and airport information released by the FAA. It contains airport contact and operations information for each of the airports in Texas (22).

4.1.5 EIA's AEO

EIA's AEO presents an assessment by the U.S. EIA of the outlook for the energy market through 2045 (23). AEO provides fuel consumption projections for commercial jet fuel, commercial aviation gasoline, and military jet fuel.

4.2 ACTIVITY DATA

The 2019 aircraft operations, taxi times, fleet mix, and projection factors with respect to 2019 operations for each facility group are presented in this section. Due to limited data on APU operating time and GSE activity, default values from AEDT were used for modeling.

4.2.1 Aircraft Activity— LTO

TTI employed the following procedure to estimate the operations for the different facility groups during the previous activity data collection study. This study was conducted before the current project to develop activity data needed for emissions modeling.

1. As a first step, all operations from various datasets were listed side by side for commercial and reliever airports. Average operations for each facility were created from 2019 data sources such as 5010, TAF, AirNav, and the 2017 ERG study. They were compared with airport values reported to TTI by airport facilities. Any anomalies were flagged and rectified using the information published in the airport-specific master plans.
2. Similarly, TASP and Military operations from various datasets were listed side by side. The average operations for each facility created from 2019 data sources

were compared with airport values reported to TTI by airport facilities. The TAF dataset was used as the preferred basis for the airports as a hierarchy. However, AirNav and the 5010 datasets were the preferred choices for airports where TAF had no values reported. Any anomalies with ratios (estimated/average) were flagged and rectified.

3. The military airport facilities were a challenge since a very limited dataset was available. Since most of the aircraft operations are used for training purposes, it is not tracked or reported. TMFSC data had reported values for ten military facilities. The average of these data sets was used for the facilities where data was unavailable, specifically for those military facilities.
4. A similar process was implemented for other airport groups where facility-specific information was not reported and not available from different data sources.

The above methodology was applied to FAA's 5010 dataset (downloaded August 2020) in the previous activity data collection study (17). The 5010 dataset was re-downloaded in May 2021 to get the updated list of operational facilities in 2020. Twenty-nine facilities found in the May 2021 5010 dataset were not present in the August 2020 data. Also, these facilities did not have operations data in the 5010 dataset. Thus, the process for reconciling data gaps from the previous activity data collection study was applied to fill the operations for these facilities. The default values of 55 LTOs for other private airports and heliports, 78 LTOs for medical airports, one LTO for farm or ranch airports were used to fill the missing data. Table 10 shows the facilities with adjusted values for LTOs.

Table 10. Annual LTOs for 29 Facilities Found in May 2021 5010 Dataset.

| Facility ID | Facility Name | Facility Type | Facility Group | Imputed Annual LTOs ¹ |
|-------------|---|---------------|-------------------------|----------------------------------|
| 05XA | Moore County Hospital District | Heliport | Medical | 78 |
| 15XA | Hauptrief Aero | Airport | Other Private Airports | 55 |
| 16TT | 16 L Ranch | Airport | Farm/Ranch | 1 |
| 17TT | Allen Condo/Tower | Heliport | Other Private Heliports | 55 |
| 20TT | Gone with the Wind | Airport | Other Private Airports | 55 |
| 23XA | El Tejano | Airport | Other Private Airports | 55 |
| 35TT | Hawkins Fld | Airport | Other Private Airports | 55 |
| 38TA | Ascension Seton Highland Lakes Hospital | Heliport | Medical | 78 |
| 44TT | Houston Methodist Baytown | Heliport | Medical | 78 |
| 45TE | Northeast Methodist Hospital | Heliport | Medical | 78 |
| 60TA | Ut Health Henderson | Heliport | Medical | 78 |
| 63TA | Ascension Seton Williamson Hospital | Heliport | Medical | 78 |
| 71TA | Bates Fld | Airport | Other Private Airports | 55 |
| 89TE | Plaza Medical Center | Heliport | Medical | 78 |
| 8XS5 | San Luis Resort | Heliport | Other Private Heliports | 55 |
| T96 | Southwest Lubbock | Airport | Other Public Airports | 55 |
| TA12 | Flying B Ranch | Airport | Farm/Ranch | 1 |
| TA22 | Mirasol Hills | Heliport | Other Private Heliports | 55 |
| TA54 | Mccrea | Airport | Other Private Airports | 55 |
| TE44 | R-Ranch Airstrip | Airport | Farm/Ranch | 1 |
| TS20 | Joseph Of Cupertino Stolport | Airport | Other Private Airports | 55 |
| TS47 | Peeler Airpark | Airport | Other Private Airports | 55 |
| TT21 | Grant Ranch | Airport | Farm/Ranch | 1 |
| TT31 | Y Bar Ranch | Airport | Farm/Ranch | 1 |
| TT83 | HBR | Heliport | Other Private Heliports | 55 |
| TT99 | Leinart Farms Airstrip | Airport | Farm/Ranch | 1 |
| TX98 | Crespi Helistop | Heliport | Other Private Heliports | 55 |
| XA64 | Texas Health Mansfield | Heliport | Medical | 78 |
| XA65 | Medical City Alliance | Heliport | Medical | 78 |

¹Default Medical LTOs are obtained by considering three operations per week. This value is based on information obtained from interviews with local heliports. Farm and ranch defaults are based on the average operations reported from similar airports (previous activity data collection report). Other private airport defaults are based on ERG airport EI's default operations.

Figure 3 shows the 2019 LTOs for different facility groups and the cumulative distribution for the entire state. Commercial, reliever, and TASP airports account for 85 percent of the total LTOs; four million LTOs out of 4.6 million LTOs.

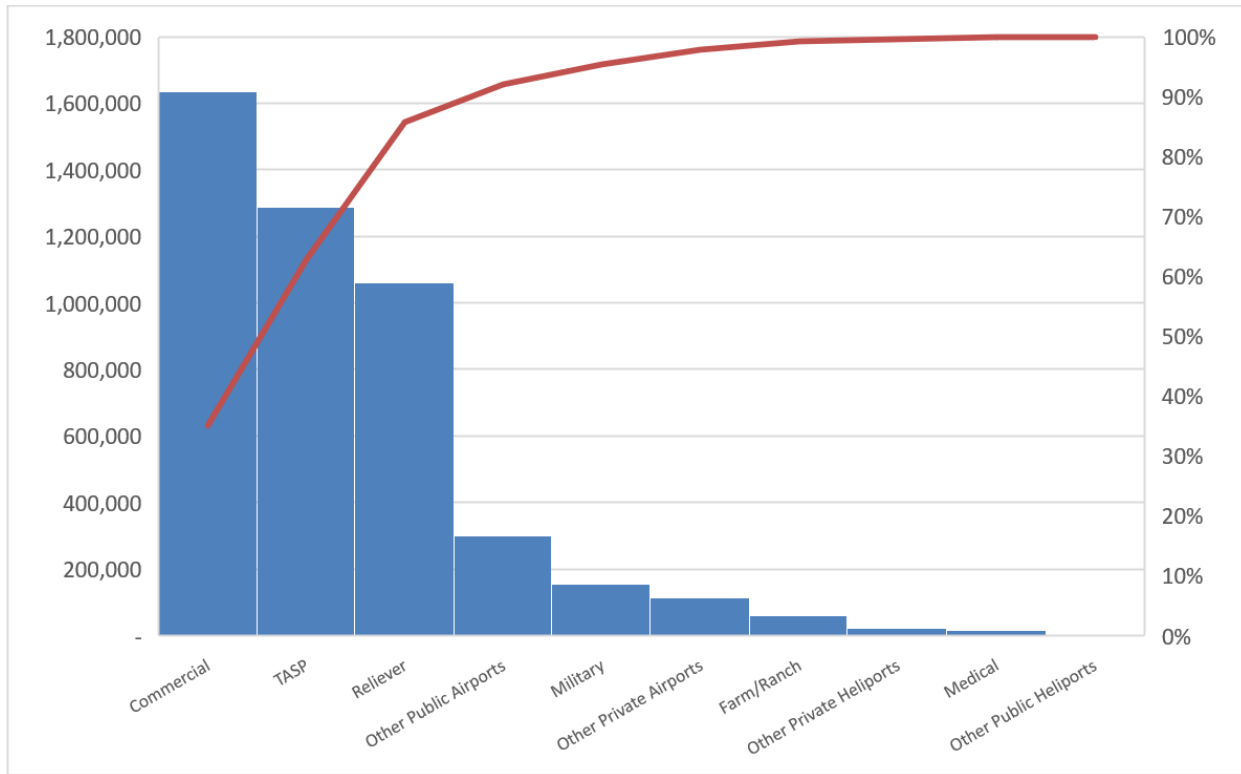


Figure 3. 2019 LTOs by Airport Facility Groups.

Moreover, this study corrected the county assigned for certain airports where the 5010 dataset had errors in county assignment. Table 11 shows the facilities with the assigned county from the 5010 dataset and corrected county. The correction is based on a spatial join between the airports shapefile available on the FAA website and the TxDOT county shapefile (24, 25).

Table 11. Facility County Correction.

| Facility ID | Facility Name | County (5010 Dataset) | County (Corrected) | City |
|-------------|--------------------------------|-----------------------|--------------------|---------------------|
| 68XA | Utley | Anderson | Bastrop | Bastrop |
| TE72 | Taylor Fld | Anderson | Cass | Bivins |
| 4TE1 | Polyanna Ranch | Anderson | Navarro | Blooming Grove |
| 1XS8 | Pinon Ranch | Kinney | Edwards | Brackettville |
| TA27 | Flying K | Burnet | Williamson | Briggs |
| 15TA | J R Ranch | Burnet | Edwards | Briggs |
| 2TA0 | Shale Valley Ranch | Anderson | Burnet | Burnet |
| 08TS | Flying G Ranch | Anderson | Hill | Bynum |
| TX45 | Hawkeye Hunting Club | Shelby | Mclennan | Center |
| TE52 | Chigger Fld | Anderson | Johnson | Cresson |
| 1F7 | Airpark East | Rockwall | Kaufman | Dallas |
| 6TA9 | Anderson Ranch | Anderson | La Salle | Dilley |
| TS53 | Tecma | Anderson | El Paso | El Paso |
| 6TA1 | Sky Ranch | Henderson | Van Zandt | Eustace |
| 22XS | Longhorn Aux Landing Strip | Bell | Coryell | Fort Hood (Killeen) |
| 23XS | Shorthorn Aux Landing Strip | Bell | Coryell | Fort Hood (Killeen) |
| TA76 | Flying 7H Ranch | Anderson | Mills | Goldthwaite |
| 0TE6 | Gorman | Eastland | Comanche | Gorman |
| TX14 | Front Yard Landing Area | Young | Palo Pinto | Graham |
| 22TA | Pharmnall | Hall | Hill | Grandview |
| 6TA6 | B & S Warehouse | Houston | Harris | Houston |
| 7TX6 | Kemah Waterfront | Harris | Galveston | Houston |
| TS62 | Norris Fld | Kent | Stonewall | Jayton |
| 5TE4 | Perkins-Prothro Cimarron Ranch | Cimarron | Dallam | Kerrick |
| 4TE0 | Ro Ranch | Anderson | Travis | Lakeway |
| 2TE8 | Stand Fast | Anderson | Terrell | Langtry |
| 6TA3 | Culp | Kaufman | Dallas | Lawrence |
| XS12 | Liberty Hill Air Ranch | Burnet | Williamson | Liberty Hill |
| TE70 | BFS | Hale | Floyd | Lockney |
| 9XS7 | Reeder | Rains | Hunt | Lone Oak |
| 0TA7 | Alta Vista Ranch | Presidio | Jim Hogg | Marfa |
| 8TE0 | Tee Pee Creek | Anderson | Motley | Matador |
| 4TE6 | Francis Ranch | Anderson | Bosque | Meridian |
| XS17 | Hensley Ranch | Cameron | Milam | Milano |
| 88TS | Fort Wolters Helicopters | Palo Pinto | Parker | Mineral Wells |
| 1TA1 | Area 142 | Anderson | Shackelford | Moran |
| 06TS | M Sansom Ranch | Castro | Concho | Paint Rock |
| 2TS6 | AE139 | Anderson | Lamar | Paris |
| TX59 | Eds Administration NR 2 | Collin | Hunt | Plano |

| Facility ID | Facility Name | County (5010 Dataset) | County (Corrected) | City |
|-------------|-----------------------------------|-----------------------|--------------------|---------------|
| XA80 | Martin Energy Svcs Harbor Island | San Patricio | Nueces | Port Aransas |
| 4XA6 | Medical Center Of Southeast Texas | Anderson | Jefferson | Port Arthur |
| XA40 | Richardson Rgnl - Bush Hwy | Dallas | Collin | Richardson |
| XS69 | Hackberry Ranch | Edwards | Real | Rocksprings |
| TE88 | Bb Airpark | Houston | Brazoria | Rosharon |
| TE37 | Canyon Ranch | Sutton | Edwards | Sonora |
| 1TE2 | Black Forest | Anderson | Montgomery | The Woodlands |
| 16TA | Seven Springs | Pecos | Reeves | Toyahvale |
| 54TS | J Bar WC Ranch | Parker | Jones | Weatherford |

Appendix B shows the operations data used in this study.

4.2.2 Taxi-In and Taxi-Out Times

Taxi-in and taxi-out data sets are dependent on the airport traffic, runway alignments, and other airport-specific operational factors. During the previous activity data collection study, many of the airports TTI communicated with did not track this information. TTI employed a hierarchical process of using the airport-reported data as the primary source of information for taxi times and employed FAA's ASPM taxi time dataset for the airports that don't track taxi times (26).

Table 12 shows the taxi-in and taxi-out times for commercial and reliever airports, combining both airport-reported values and ASPM-derived values where applicable. ASPM taxi times were used for all airports listed in

Table 12 except for IAH, EFD, and HOU, for which data from Houston Airport System (HAS) was used (27). For the facilities where taxi-in and taxi-out times were not available, AEDT defaults were used.

Table 12. Taxi-In and Taxi-Out Times for Commercial/Reliever Airports.

| Facility ID | Facility Name | County | Taxi-out (min) | Taxi-in (min) |
|------------------|----------------------------|-----------|----------------|---------------|
| ABI | ABILENE RGNL | TAYLOR | 12.67 | 4.64 |
| ACT | WACO RGNL | MC LENNAN | 11.17 | 3.87 |
| AMA | RICK HUSBAND AMARILLO INTL | POTTER | 12.55 | 4.55 |
| AUS ⁶ | AUSTIN-BERGSTROM INTL | TRAVIS | 13.23 | 6.27 |

⁶ The data reported by AUS was not used as it was significantly lower from the ASPM and previously reported studies. AUS provided the same value for 2019 and 2020.

| Facility ID | Facility Name | County | Taxi-out (min) | Taxi-in (min) |
|-------------|--------------------------------------|------------|----------------|---------------|
| BPT | JACK BROOKS RGNL | JEFFERSON | 12.84 | 4.41 |
| BRO | BROWNSVILLE/SOUTH PADRE ISLAND INTL | CAMERON | 13.28 | 4.96 |
| CLL | EASTERWOOD FIELD | BRAZOS | 10.87 | 4.83 |
| CRP | CORPUS CHRISTI INTL | NUECES | 12.59 | 4.47 |
| DAL | DALLAS LOVE FIELD | DALLAS | 11.91 | 4.71 |
| DFW | DALLAS-FORT WORTH INTL | TARRANT | 18.93 | 11.69 |
| DRT | DEL RIO INTL | VAL VERDE | 12.53 | 4.51 |
| ELP | EL PASO INTL | EL PASO | 13.53 | 4.19 |
| GGG | EAST TEXAS RGNL | GREGG | 12.77 | 5.28 |
| HOU | WILLIAM P HOBBY | HARRIS | 10.91 | 5.48 |
| HRL | VALLEY INTL | CAMERON | 10.80 | 3.35 |
| IAH | GEORGE BUSH INTERCONTINENTAL/HOUSTON | HARRIS | 19.76 | 8.66 |
| ILE | SKYLARK FIELD | BELL | 13.75 | 5.00 |
| LBB | LUBBOCK PRESTON SMITH INTL | LUBBOCK | 11.81 | 4.39 |
| LRD | LAREDO INTL | WEBB | 12.54 | 4.88 |
| MAF | MIDLAND INTL AIR AND SPACE PORT | MIDLAND | 12.63 | 3.82 |
| MFE | MC ALLEN MILLER INTL | HIDALGO | 12.59 | 4.65 |
| SAT | SAN ANTONIO INTL | BEXAR | 11.27 | 4.50 |
| SJT | SAN ANGELO RGNL/MATHIS FIELD | TOM GREEN | 10.15 | 3.47 |
| SPS | SHEPPARD AFB/WICHITA FALLS MUNI | WICHITA | 12.64 | 6.33 |
| TYR | TYLER POUNDS RGNL | SMITH | 12.66 | 4.76 |
| VCT | VICTORIA RGNL | VICTORIA | 12.73 | 4.52 |
| ADS | ADDISON | DALLAS | 14.07 | 4.94 |
| AFW | FORT WORTH ALLIANCE | TARRANT | 11.72 | 5.58 |
| AXH | HOUSTON-SOUTHWEST | FORT BEND | 13.24 | 5.00 |
| CXO | CONROE-NORTH HOUSTON RGNL | MONTGOMERY | 13.80 | 4.94 |
| DTO | DENTON ENTERPRISE | DENTON | 13.96 | 4.95 |
| DWH | DAVID WAYNE HOOKS MEMORIAL | HARRIS | 14.18 | 4.95 |
| EFD | ELLINGTON | HARRIS | 13.86 | 4.87 |
| FTW | FORT WORTH MEACHAM INTL | TARRANT | 14.07 | 4.96 |
| FWS | FORT WORTH SPINKS | TARRANT | 13.01 | 4.91 |
| GKY | ARLINGTON MUNI | TARRANT | 13.93 | 4.97 |
| GLS | SCHOLES INTL AT GALVESTON | GALVESTON | 14.76 | 4.93 |
| GPM | GRAND PRAIRIE MUNI | TARRANT | 16.00 | 5.00 |
| GTU | GEORGETOWN MUNI | WILLIAMSON | 14.09 | 4.98 |
| HQZ | MESQUITE METRO | DALLAS | 13.45 | 4.93 |
| HYI | SAN MARCOS RGNL | CALDWELL | 13.57 | 4.95 |
| IWS | WEST HOUSTON | HARRIS | 13.82 | 4.92 |
| LBX | TEXAS GULF COAST RGNL | BRAZORIA | 15.36 | 5.00 |
| LNC | LANCASTER RGNL | DALLAS | 13.00 | 5.00 |

| Facility ID | Facility Name | County | Taxi-out (min) | Taxi-in (min) |
|-------------|-------------------|-----------|----------------|---------------|
| LVJ | PEARLAND RGNL | BRAZORIA | 13.00 | 5.00 |
| RBD | DALLAS EXECUTIVE | DALLAS | 12.27 | 4.61 |
| SGR | SUGAR LAND RGNL | FORT BEND | 13.59 | 4.63 |
| SKF | KELLY FLD | BEXAR | 11.08 | 4.70 |
| SSF | STINSON MUNI | BEXAR | 15.67 | 4.50 |
| T41 | LA PORTE MUNI | HARRIS | 13.84 | 4.99 |
| TKI | MCKINNEY NATIONAL | COLLIN | 12.59 | 4.70 |

4.2.3 Fleet Mix Development

As part of the previous activity data collection study, the research team found that many airports do not track the aircraft fleet mix as it depends on the technical capability of the airport. This information was not readily available from many of the airports TTI communicated with during the previous activity data collection study. This data was reconciled for airports found in the FAA's TFMSC dataset. TTI employed a hierarchical process of using the airport-reported data as the primary source of information for fleet mix and employed the TFMSC dataset for the airports that did not provide the fleet mix.

TTI used the airport-reported fleet mix data for DFW, IAH, EFD, and HOU. TFMSC data provided the fleet mix for all other commercial and reliever airports. TFMSC data (when available) was used for non-commercial and non-reliever airports as well. Data filling was conducted for the facilities where no fleet mix data was available. This fleet mix only consisted of the airframe information. There was a need to also incorporate the engine information before using the fleet information in AEDT. The engines were assigned based on the AEDT equipment table, which maps the airframes and the engines. Appendix C shows the fleet mix data used in this study.

Table 13 lists the data filling strategy for obtaining the fleet mix for various facility groups.

Table 13. Fleet Mix – Reconciling Data Gaps.

| Facility Group | Missing Data Handling | Comments |
|---------------------------|---|--|
| TASP airports | Used TFMSC fleet mix from TASP airports in the same district. | Considered airports with the same facility group and district to have similar operating characteristics. |
| Military airports | Used TFMSC fleet mix from TASP airports in the same district. | Considered airports with the same facility group and district to have similar operating characteristics. |
| Military heliports | Distributed operations equally between Bell 212, Boeing CH47D, and Sikorsky-70. | Chose typical military helicopters to represent the military operations |

| Facility Group | Missing Data Handling | Comments |
|---|---|---|
| Other public and private airports | Used the TFMSC fleet mix from other public airports with the lowest operations. | Most of the airports in this category were absent from TFMSC data. Choose one representative airport to obtain the fleet mix. |
| TASP, medical, other private, and other public heliports | Distributed operations equally between Eurocopter 130, Agusta Westland 109, and Bell 429 | Chose typical helicopters to represent the operations at heliports. |
| Farm or Ranch airports | Distributed operations equally between Raytheon Beech 55 Baron, Piper PA-32 Cherokee Six, Cessna 172 Skyhawk, Mooney M20-K, Grumman AA-5A/B (FAS) | Chose typical aircraft to represent the operations at farm or ranch airports. |

4.2.4 Forecasting Factors

The calendar year 2019 EI was combined with projection factors to backcast and forecast emissions from 2011 through 2050. TTI used a combination of FAA's most recent TAF dataset (forecast issued May 2021) and EIA's AEO dataset to develop emissions projection factors. The TAF dataset had projection factors for 214 airports in Texas, including data for all commercial and reliever airports. EIA's AEO dataset was used in projection factor gap filling for airports not included in the TAF dataset. In addition to the TAF and AEO datasets, TTI used the 2019 and 2020 operations data for commercial airports from available airport websites (when available) and OPSNET to adjust for impacts on 2020 activity due to the COVID-19 pandemic. The following approach was used to develop the projection factors:

- The TAF dataset corresponding to 2011 through 2045 was downloaded for the State of Texas. The TAF data includes aircraft operations data by the airport and general aircraft type. It is not available after 2045. The downloaded operations data correspond to the airport and aircraft type (air taxi, general aviation, military, commercial). This study used the airport-level operations data to obtain the projection factors for 2011 through 2045. The calendar year 2045 projection factors were used for the remaining span of 2046 through 2050.
- Projection factors were developed by calculating ratios of base year (2019) operations (or LTOs) to each projection year's operations.
- TAF data provided operations for all commercial and reliever airports; however, it did not cover many other smaller facility groups. Generic growth-rate projection

factors were developed for these facilities. Table 14 presents the missing data handling methodology used for these facility groups.

- To better capture the impacts on activity due to the COVID-19 pandemic, 2020 projection factors for the commercial airports were estimated based on the 2019 and 2020 operations data from the airports' websites for airports that posted their operations online. TTI compared the operations from the airports' website with other data sources and found that OPSNET data closely aligns with the airport reported data. Thus, OPSNET data was used to develop the 2020 projection factors for commercial airports that did not report the operations data on their website. For airports that did not report the 2019 and 2020 operations and did not have data on OPSNET, an average projection factor of "smaller" commercial airports was used. Table 15 presents the 2019 and 2020 operations data and the projection factors that TTI developed.
- TTI used the activation year in the 5010 dataset to determine the start year of a facility. Projection factors for all years before the activation year were set to zero.

Appendix D provides the projection factors by different facility groups.

Table 14. Projection Factors – Reconciling Data Gaps.

| Facility Group | Missing Data Handling | Comments |
|---|--|---|
| TASP airports | Used TAF projections from TASP airports in the same district. | Considered airports with the same facility group and district to have similar operating characteristics. |
| Military airports and heliport | Used AEO military jet fuel projection factors (shown in Figure 4). | Military jet fuel projection factors provide a good surrogate for capturing the military operation growth rate. |
| Other public and private, Farm or Ranch airports and heliport | Used AEO commercial aviation gasoline (Avgas) ⁷ projection factors (shown in Figure 4). | Aviation gas projection factors provide a good surrogate for capturing the general aviation growth rate as aviation gas is primarily used for general aviation. |
| Medical heliports | Considered no growth; 2019 operations used for all years between 2011 and 2050. | The TTI team considered the demand for helicopter medical services to stay constant over the years. |

⁷ Avgas is a specialized fuel used to power piston engine aircraft. Aircraft operating on leaded avgas are used for many critical purposes, including business and personal travel, instructional flying, aerial surveys, agriculture, firefighting, law enforcement, medical emergencies, and express freight. (Ref-
https://www.faa.gov/news/fact_sheets/news_story.cfm?newsId=14754)

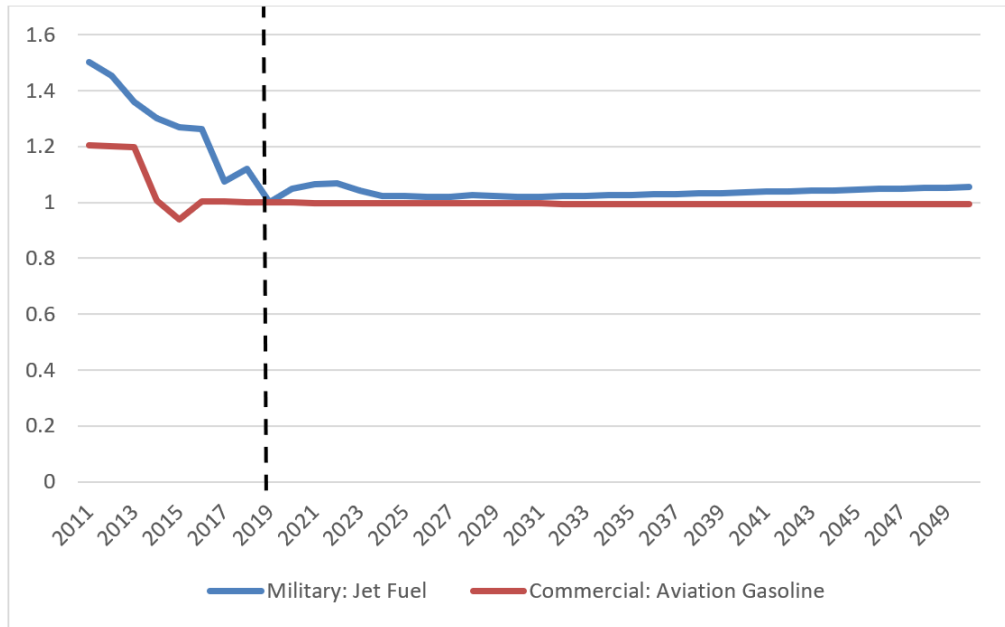


Figure 4. Annual Energy Outlook (AEO) Military Jet Fuel and Commercial Aviation Gasoline Projection Factors (23).

Table 15. 2019 and 2020 Operations and Projection Factors.

| County | Facility ID | Facility Name | 2019 Operations | 2020 Operations | Projection Factor | Source |
|------------------|-------------|-------------------------------------|-----------------|-----------------|-------------------|--|
| Taylor | ABI | Abilene Rgnl | 52,426 | 44,220 | 0.84347 | OPSNET |
| McLennan | ACT | Waco Rgnl | 52,852 | 54,370 | 1.02872 | OPSNET |
| Potter | AMA | Rick Husband Amarillo Intl | 54,074 | 41,959 | 0.77596 | OPSNET |
| Travis | AUS | Austin-Bergstrom Intl | 209,726 | 131,342 | 0.62626 | AUS Website |
| Jefferson | BPT | Jack Brooks Rgnl | 18,949 | 16,950 | 0.89451 | OPSNET |
| Cameron | BRO | Brownsville/South Padre Island Intl | 27,439 | 24,943 | 0.90903 | OPSNET |
| Brazos | CLL | Easterwood Fld | 58,285 | 54,482 | 0.93475 | OPSNET |
| Nueces | CRP | Corpus Christi Intl | 100,129 | 88,889 | 0.88774 | CRP Website |
| Dallas | DAL | Dallas Love Fld | 231,879 | 170,162 | 0.73384 | DAL Website |
| Tarrant | DFW | Dallas-Fort Worth Intl | 720,007 | 514,702 | 0.71486 | DFW Website |
| Val Verde | DRT | Del Rio Intl | | | 0.89587 | Based on the average growth of smaller commercial airports*. |
| El Paso | ELP | El Paso Intl | 87,095 | 76,333 | 0.87643 | ELP Website |

| County | Facility ID | Facility Name | 2019 Operations | 2020 Operations | Projection Factor | Source |
|------------------|-------------|---------------------------------|-----------------|-----------------|-------------------|--|
| Gregg | GGG | East Texas Rgnl | 57,704 | 46,476 | 0.80542 | OPSNET |
| Harris | HOU | William P Hobby | 204,703 | 137,236 | 0.67042 | HAS 2019 and 2020 Els |
| Cameron | HRL | Valley Intl | 41,338 | 57,120 | 1.38178 | OPSNET |
| Harris | IAH | George Bush Intl/Houston | 478,070 | 267,655 | 0.55987 | HAS 2019 and 2020 Els |
| Bell | ILE | Skylark Fld | | | 0.89587 | Based on the average growth of smaller commercial airports*. |
| Lubbock | LBB | Lubbock Preston Smith Intl | 92,585 | 80,037 | 0.86447 | OPSNET |
| Webb | LRD | Laredo Intl | 73,359 | 64,604 | 0.88066 | OPSNET |
| Midland | MAF | Midland Intl Air and Space Port | 64,519 | 54,620 | 0.84657 | OPSNET |
| Hidalgo | MFE | McAllen Miller Intl | 65,222 | 63,120 | 0.96777 | OPSNET |
| Bexar | SAT | San Antonio Intl | 163,870 | 109,864 | 0.67043 | OPSNET |
| Tom Green | SJT | San Angelo Rgnl/Mathis Fld | 78,252 | 71,684 | 0.91607 | OPSNET |
| Wichita | SPS | Sheppard AFB/Wichita Falls Muni | | | 0.89587 | Based on the average growth of smaller commercial airports*. |
| Smith | TYR | Tyler Pounds Rgnl | 34,419 | 31,146 | 0.90491 | OPSNET |
| Victoria | VCT | Victoria Rgnl | 57,422 | 36,804 | 0.64094 | OPSNET |

*Smaller commercial airports: ABI, ACT, AMA, BPT, BRO, CLL, GGG, HRL, LBB, LRD, MAF, MFE, SJT, TYR, and VCT.

4.3 CONTROL STRATEGIES

This study primarily considered two control measures: gate electrification and GSE electrification.

Table 16 and Table 17 present the gate and GSE electrification details, respectively. The facilities included in these tables are not exhaustive thus do not capture all facilities in Texas that use these control measures. Only the facilities where control measure information was available are included. Moreover, a conservative approach was used and only considered controls after 2017, the source year for most of the control measure data collected.

Gate electrification allows the aircraft to use electricity hookups instead of the APUs while docking at the gates. GSE electrification consists of turning over the conventional fuel-powered GSE vehicle to use electric-powered vehicles. The APU and non-electric GSE emissions were reduced based on the gate and GSE electrification percentages.

Table 16. Gate Electrification.

| Facility ID | Facility Name | County | Facility Group | 2017 – 2050 |
|-------------|----------------------------|---------|----------------|-------------|
| ABI | ABILENE RGNL | TAYLOR | COMMERCIAL | 50% |
| AMA | RICK HUSBAND AMARILLO INTL | POTTER | COMMERCIAL | 100% |
| AUS | AUSTIN-BERGSTROM INTL | TRAVIS | COMMERCIAL | 5% |
| CRP | CORPUS CHRISTI INTL | NUECES | COMMERCIAL | 100% |
| DAL | DALLAS LOVE FIELD | DALLAS | COMMERCIAL | 100% |
| DFW | DALLAS-FORT WORTH INTL | TARRANT | COMMERCIAL | 55% |
| HOU | WILLIAM P HOBBY | HARRIS | COMMERCIAL | 100% |
| ILE | SKYLARK FIELD | BELL | COMMERCIAL | 100% |

Table 17. GSE Electrification.

| Facility ID | Facility Name | County | Facility Group | 2017 – 2050 |
|-------------|------------------------|---------|----------------|-------------|
| CRP | CORPUS CHRISTI INTL | NUECES | COMMERCIAL | 4% |
| DFW | DALLAS-FORT WORTH INTL | TARRANT | COMMERCIAL | 34% |
| HRL | VALLEY INTL | CAMERON | COMMERCIAL | 15% |
| AFW | FORT WORTH ALLIANCE | TARRANT | RELIEVER | 5% |

5.0 EMISSIONS MODELING

The aircraft, GSE, and APU emissions were modeled using AEDT. The following section provides an overview of AEDT and presents the modeling approach used in this study.

5.1 AEDT OVERVIEW

AEDT is a software system that models aircraft performance in space and time to estimate fuel consumption, emissions, noise, and air quality consequences. AEDT is a comprehensive tool that provides information to FAA stakeholders on each of these specific environmental impacts. AEDT facilitates environmental review activities required under NEPA by consolidating the modeling of these environmental impacts in a single tool (28). AEDT version 3d was the latest version of this software when this study was conducted.

AEDT is designed to model individual scenarios ranging in scope from a single flight at an airport to regional, national, and global scenarios. AEDT leverages geographic information system (GIS) and relational database technology to achieve this scalability and offers rich opportunities for exploring and presenting results. The U.S. government actively uses versions of AEDT for domestic aviation system planning as well as domestic and international aviation environmental policy analysis (28).

AEDT accepts data from a variety of sources with varying spatial and temporal resolutions. The key input to estimating aircraft emissions is the aircraft activities which can be categorized into (a) planned flight data and (b) observed flight data. The planned flight data at the airport level consists of planned arrival and departure information of aircraft along specific routes. The observed flight data obtained from the sensor observations of aircraft activity contains information on the aircraft's three-dimensional position, speed, and direction. In addition to aircraft activity, AEDT can model emissions from APUs and GSE operating in the airports. Users have two options to incorporate input information, (i) user-defined inputs through the graphical user interface (GUI) and (ii) extensive databases maintained by AEDT on the aircraft, fleet, and operations information required to estimate emissions. Key components of the AEDT model are presented in Figure 5 (28).

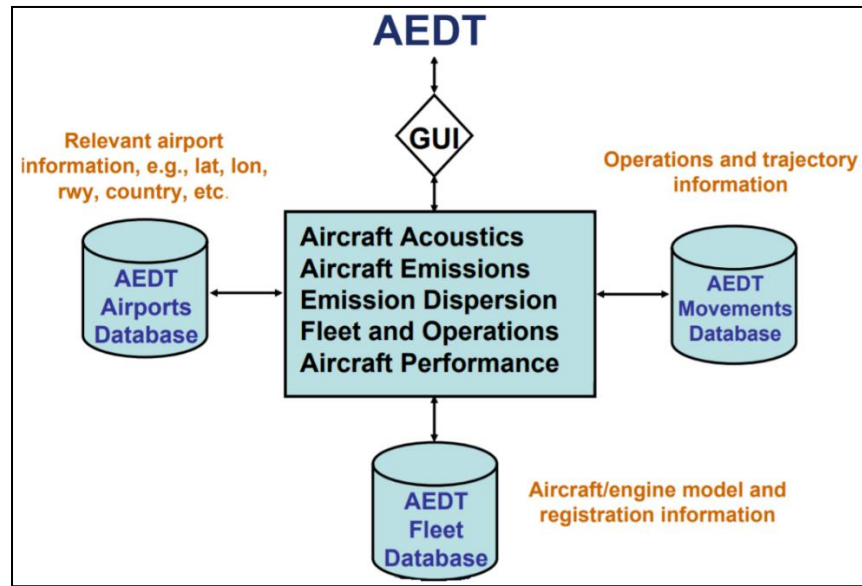


Figure 5. Key Components of the AEDT Model.

The critical databases within AEDT are described as follows:

- The study database provides the baseline template for creating a new study. This database references external data sources such as weather, terrain, as well as map layers, including input and run configuration, intermediate data, and output results for the AEDT application. The study database contains all input parameter types and units, control settings, table structure (grouping of parameters), and the relationship between tables.
- The airport database consists of data pertinent to the airports considered in the study. The database contains information corresponding to airport codes, historical averages of meteorological data extracted from the weather sensors stationed at the airports, details of airport surface structures (e.g., runways, taxiways, gates, buildings, etc.), and airspace geographical content on procedures (e.g., ground-tracks, altitude controls, etc.). Additional information about airports can be imported using the GUI.
- AEDT fleet database contains information pertaining to aircraft and non-aircraft equipment for AEDT modeling. The fleet database contains over 4,000 aircraft (airframe/engine combinations) and approximately 400 non-aircraft emissions sources (GSE, stationary power and fuel equipment, and APUs) (29). AEDT provides the option to assign the non-aircraft data either as a stand-alone operation or defined in association with aircraft operations.
- AEDT movement database provides two options to incorporate operations information. The first option, where the minimum information required from the

user to be incorporated, is the equipment to be used, the time at which the operation is to take place, and the location of the operation. AEDT models this as an explicitly scheduled operation. In the second option, in addition to the user's required information on the equipment and location of operation, incorporation of activity profiles is required by AEDT to form a detailed schedule. The different inputs required by the AEDT⁸ model to estimate emissions from different sources are presented in Table 18.

⁸ Since the AEDT model is resource intensive, an emission rates look-up table was developed for all aircraft types in a single run or a group of runs based on the region or airport category. In addition, due to lack of fuel formulation data availability from the airports, AEDT defaults on fuels were used for the analysis.

Table 18. Input data parameters for emissions sources as required by AEDT.

| Emission Sources | Input Parameters |
|--------------------|--|
| Aircraft operation | <ul style="list-style-type: none"> • Airport layout (for departures and arrivals, required for delay and sequencing modeling) <ul style="list-style-type: none"> ○ Runway locations ○ Gate locations ○ Taxiway locations ○ Taxi path definitions • Aircraft operation schedule <ul style="list-style-type: none"> ○ Date and time ○ Operation type (e.g., departure, arrival, touch and go, etc.) ○ Airframe model and Engine model ○ Flight profile ○ Runway ○ Flight track ○ Gate (for departures and arrivals) • Meteorological conditions <ul style="list-style-type: none"> ○ Mean sea level pressure and Temperature ○ Relative humidity and Wind (speed and direction) |
| APU | <ul style="list-style-type: none"> • Duration of operation • Emission rates (ERs) for pollutants (default ERs are available for system APUs) • As APU operation occurs only when an APU is installed on an aircraft, hence its operation is considered in conjunction with aircraft operation |
| GSE | <ul style="list-style-type: none"> • GSE emissions can be characterized in two ways, (a) "aircraft-assigned GSE" in which case emissions are estimated in conjunction with aircraft operations, (b) "GSE population," in which case GSE emissions are estimated based on total annual GSE operation time independent of aircraft operation • Emissions are defined by the GSE type (e.g., air conditioner), and fuel type • Duration (minutes) (default values are available) • Horsepower (power rating) (default values are available) • Load factor (percent) • Emission rates (ERs) for pollutants (default ERs are available for system GSEs) |

5.2 MODELING PARAMETERS

Landing and takeoff emissions in AEDT are affected by a multitude of parameters. The following is a discussion on the key parameters that influence emissions and their values in this study.

- **Spatial scope:** In AEDT, the three-dimensional spatial scope is defined by selecting the airport for which the EI is being developed and the mixing height.

TTI has used the default AEDT mixing height of 3,000 feet. Only landing and takeoff emissions below the mixing height are considered for the EI.

- **Temporal scope:** Temporal scope consists of the arrival and departure times. For this inventory, all operations are assigned to January 1st 2019, at 8 am. This approach is similar to the HAS's approach used for developing EIs for IAH, EFD, and HOU (27).
- **Airport layout:** Airport layout consists of runway locations, gate locations, taxiway locations, and taxipath definitions. For this study, we have used the default airport layout.
- **Ground tracks:** Each runway end can have an arrival and departure track associated with it. They are a trace of the flight path on the horizontal plane. They are represented by an ordered series of 2-D surface locations. This study generally uses four tracks for assigning aircraft and helicopter arrivals and departures; one track for assigning aircraft arrivals, one for assigning aircraft departures, one for assigning helicopter arrivals, and one for assigning helicopter departures.
- **Landing and takeoff profiles:** These are a set of points that model the geometrical and physical characteristics of an aircraft flight operation in the vertical profile. This study uses the default profiles provided by AEDT for different aircraft and helicopters.
- **Number of arrivals and departures:** The 2019 operations and the fleet mix are used to obtain the number of operations for different aircraft. Operations for each aircraft are split equally between arrivals and departures.
- **APUs:** All commercial and reliever airport aircraft are assigned an APU based on the default APU and airframe mapping provided in the AEDT Fleet database. For the aircraft with APU, a default APU operating duration of 13 minutes is used.
- **GSE:** GSE and GSE operating durations are assigned based on the AEDT default values.
- **Weather information:** This study uses the 2020 average airport weather for each facility modeled in AEDT.
- **Startup Emissions:** Startup emissions are included in the total emissions.

5.2.1 Commercial and Reliever

Each commercial and reliever facility is modeled separately based on their respective fleet mix. IAH, HOU, and EFD AEDT files were obtained from HAS. The emissions output

is obtained for each aircraft arrival and departure, GSE, and APU. For aircraft arrivals and departures, this study only considers the emissions for “Descend Below Mixing Height” and “Climb Below Mixing Height,” respectively.

5.2.2 Non-Commercial and -Reliever

A representative airport is used to model the emissions for different non-commercial and non-reliever facility groups. TTI obtained the emission rates for landing and takeoff for different aircraft using this approach. These emission rates were converted into emission quantities based on the operations and fleet mix data.

Table 19 lists the facility groups and the representative facility used to model these facility groups.

Table 19. Representative Facility for Different Facility Groups.

| Facility Group | Representative Facility |
|--|--|
| TASP airports | T23: Albany Municipal Airport |
| Military airports | KBIF: Biggs Army Airfield |
| Military heliports | K9R7: Camp Bullis |
| Other public airports | KHPY: Baytown Airport |
| Other private airports | KEDC: Austin Executive |
| TASP, medical, other private, and other public heliports | 78TX: Baylor Scott & White Medical Center - Grapevine Heliport |
| Farm or Ranch airports | KEDC: Austin Executive |

6.0 EMISSION INVENTORIES

This study included the development of the AERR 2020 and 2011 through 2050 trend EIs for aircraft, APU, and GSE non-road mobile sources. Based on the methodology described in Section 3, the 2020 AERR emissions summary, 2011 through 2050 trend emissions summary, TexAER XML format output, and EPA EIS XML files were prepared for the required SCC listed in Table 4.

Appendix E and F show the county-level uncontrolled and controlled emissions respectively. The detailed EI results are included electronically as a zipped folder with tab-delimited file format in Appendix G. Statewide controlled annual and average summer weekday emissions are included in the executive summary.

7.0 QUALITY ASSURANCE AND QUALITY CONTROL

Analyses and results were subjected to appropriate internal review and QA/QC procedures, including independent verification and reasonableness checks. All work was completed consistent with applicable elements of American Society for Quality, American National Standard ASQ/ANSI: E4:2014: *Quality Management Systems for Environmental Information and Technology Programs – Requirements with Guidance for Use*, February 2014, and the TCEQ Quality Management Plan.

The Quality Assurance Project Plans (QAPP) category and project type most closely matching the intended use of this analysis are QAPP Category II (for important, highly visible Agency projects involving areas such as supporting the development of environmental regulations or standards) and modeling for NAAQS compliance. Internal review and quality control measures consistent with the QA category and project type-specific requirements provided in Guidance for Quality Assurance Project Plans for Modeling, EPA QA/G-5M (30), along with appropriate audits or assessments of data and reporting of findings, were employed. These include but were not limited to the elements outlined, per EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5) (31), in the following description.

7.1 PROJECT MANAGEMENT

The definition and background of the work addressed by this project, the project/task description, and project documents and records are as described in the Purpose and Background sections of the Grant Activity Description (GAD). No special training or certification was required. The TTI project manager ensured project personnel used the most current, approved version of the QAPP.

According to guidance and methods documents as referenced, the objective was to produce EIs of the quality level required for air quality modeling and in consultation with the TCEQ project manager.

Basic criteria were used to assure the acceptable quality of the product, including:

- The product met the purpose of the emissions analysis;
- The full extent of the modeling domain was included;
- Agreed methods, models, tools, and data were used;
- The output data sets were produced in required formats;
- Any deficiencies found were corrected; and

- Aggregate results were comparable with available, similarly produced emissions estimates.

7.2 ASSESSMENT AND OVERSIGHT

The following assessments were performed.

- Verified that the overall scope was met (i.e., consistent with the intended purpose, for specified temporal resolution and geographic coverage, for specified sources, pollutants, and emissions processes).
- Checked that input data was prepared according to the plan; and
- Checked that correct output data was produced. Records were kept of the checks performed.

If any inconsistency or deficiency was found, the issue was directly communicated to responsible staff for correction (or outside agency staff involved, if any). After any correction, QA checks were repeated to ensure that the additional work resulted in the intended result and was noted in the QA record. The project manager ensured that all QA checks performed were compiled and maintained in the project archives.

7.3 DATA VALIDATION

Erroneous or improper inputs at any point during the EI development process may produce inaccurate emissions estimates. The TTI project team performed QA checks at each step of the analysis to ensure data quality.

Any data products required for the emissions analysis were subjected to the appropriate QA checks. Any issues found needing resolution were corrected, and appropriate QA checks were performed until satisfied, ensuring the project results met the TCEQ requirements, i.e., as outlined in the GAD and QAPP. The QA/QC results are provided in Appendix H (electronic only).

Some of the protocols that TTI followed are outlined below:

- The TTI team compared the LTOs between those developed by TTI for this project and those developed by ERG from a previous study.
- Table 20 shows the differences between the ERG and TTI EI's LTOs (8). The total percent difference in LTOs between the studies is within one percent.

Table 20. TTI and ERG – 2017 LTOs Comparison.

| Facility Group | ERG 2017 LTOs | TTI 2017 LTOs | Percent Difference (%) |
|----------------|---------------|---------------|------------------------|
| Commercial | 1,596,760 | 1,560,809 | -2.25% |
| Reliever | 1,021,636 | 1,056,668 | 3.43% |
| TASP | 1,281,547 | 1,282,092 | 0.04% |
| Other | 657,227 | 625,522 | -4.82% |
| All | 4,557,171 | 4,525,110 | -0.70% |

- Aggregate emissions from TTI estimates were compared with ERG 2017 data for reasonableness (8). Appendix I shows the pollutant emissions comparisons between TTI and ERG 2017 results. The emissions differences between the two studies can be attributed to differences in the AEDT version used, LTO, fleet mixes, engine-airframe combinations, and the modeling methodologies used by TTI and ERG.
- IAH, HOU, and EFD's emissions provided by HAS were projected to 2017 and compared with the ERG 2017 results to assess the variance in emissions between ERG and other EI sources. This check provides a reference for the variance that can be expected between different inventories. Appendix I provides the 2019 and 2017 HAS airport emissions. HAS airport provided the 2019 emissions (27); the TTI team projected these emissions to 2017. Appendix I also presents the percent change in HAS emissions with respect to ERG emissions. There is a considerable variation in emissions between the two studies. The variance can be attributed to different input data and modeling approaches. Based on this comparison, it is reasonable to expect the emissions from this EI to differ from the emissions provided by the previous 2017 ERG study.
- TTI verified that the final EI data converted into TCEQ's TexAER format meets the TCEQ reporting purposes.

8.0 CONCLUSION AND RECOMMENDATION

The results from this study showed that commercial and reliever airports accounted for about 55 percent of the total statewide LTOs. In terms of emissions, commercial and reliever airports contribute around 80 percent of the NO_x, PM₁₀, PM_{2.5}, SO₂, and VOC emissions. The percent of commercial, reliever, and TASP airport LTOs compared to statewide LTOs is around 85, and the emissions contribution to total statewide emissions is significant from these facility groups. Figure 6 shows the percentage contribution of commercial and reliever airports to the total statewide emissions. It also shows the percentage contribution of the commercial, reliever, and TASP facility group.

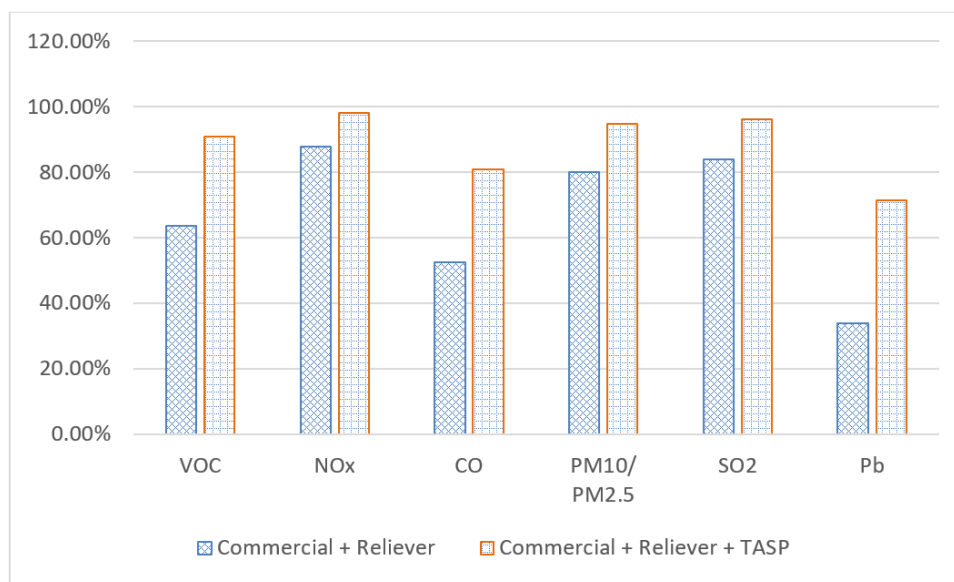


Figure 6. Percentage Contribution of Facility Groups to Statewide Emissions.

The TTI team reviewed the previous NEI's inventory development methodologies to follow previously used best practices and improve upon the methodology where warranted. The following were the focus areas for improving emission estimates:

- Activity data development:** The TTI team reviewed various airport activity datasets and contacted multiple airports to develop a robust database of activity data. As a part of this effort, the TTI team collected detailed operation, fleet mix, taxi times, and projection factor information from the FAA datasets and individual airports. This data was used for emission modeling, thus improving the data resolution, which translated to improved emissions estimates.
- Emissions modeling resolution:** The TTI team also aimed to improve the emissions models and develop finer resolution activity data. To accomplish this, commercial and reliever airports, which account for around 85 percent of the

total aircraft operations in Texas, were modeled individually using FAA's emission modeling software AEDT.

TTI believes that the following additional data collection efforts and prediction model development can help further improve the estimates:

1. **CSA, GSE, and APU usage data improvements:** Current EI's do not accurately estimate the GSE fleets (equipment type, fuel type, etc.) and APU usage at CSAs. It would be beneficial to develop a focused survey and collect data on equipment types and their usage statistics at these airports to improve the EIs. The focus is on commercial service airports since the GSE and APUs are predominantly used in commercial airport operations. In addition, the survey could collect data on local emissions reduction programs implemented at CSAs to improve the controlled and uncontrolled EIs.
2. **Aircraft and engine type data improvements:** The same aircraft can have multiple engine types. FAA's dataset used in this study primarily provided information on operations by aircraft; it did not provide details on the engine models used by the aircraft. Future studies can explore other data sources that provide information on common engine types used in different aircraft. One such data source is the 2018 edition of the Turbine-Engined Fleets of the World's Airlines listing by Eastman Chemical Company (32). It provides information on airline, airframe, and engine types operating at airports.
3. **Aircraft operations and Fleet-mix predictions:** The COVID-19 pandemic has challenged the aviation industry and has affected response rates for data requests for EI development. To overcome this challenge, prediction models can be developed for operations and activity distributions by modes (general aviation, military, air carrier, etc.). It would be beneficial to explore alternate data sources such as BTS, FAA, and other open-source datasets to develop models that can predict activity based on the airport characteristics. This would also assist in streamlining and improving the EI development process.

REFERENCES

1. *National Ambient Air Quality Standards for Particulate Matter; Final Rule*. 40 CFR Parts 50, 51, 52 et al.
2. *National Environmental Policy Act*. 40 CFR Parts 1500-15081.
3. Penman, J., D. Kruger, I. E. Galbally, T. Hiraishi, B. Nyenzi, S. Emmanuel, L. Buendia, R. Hoppaus, T. Martinsen, and J. Meijer. Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories. 2000.
4. Simone, N. W., M. E. Stettler, and S. R. Barrett. Rapid Estimation of Global Civil Aviation Emissions with Uncertainty Quantification. *Transportation Research Part D: Transport and Environment*, Vol. 25, 2013, pp. 33–41.
5. Federal Aviation Administration. Aviation Emissions, Impacts and Mitigation: A Primer. *Office of Environment and Energy*, 2015.
6. Belobaba, P., A. Odoni, and C. Barnhart. *The Global Airline Industry*. John Wiley & Sons, 2015.
7. Federal Aviation Administration. Voluntary Airport Low Emissions Program (VALE) – Airports. <https://www.faa.gov/airports/environmental/vale/>. Accessed Sep. 16, 2021.
8. Eastern Research Group, Inc. *Development of the Statewide Aircraft Inventory for 2011*. 2019.
9. North Central Texas Council of Governments. *North Central Texas Aircraft Emissions Inventory*. 2011.
10. Eastern Research Group, Inc. *2017 Texas Statewide Aircraft Emissions Inventory*. 2019.
11. Eastern Research Group, Inc. *Development of the Statewide Aircraft Inventory for 2020*. 2019.
12. Federal Aviation Administration. Airport Data & Contact Information. https://www.faa.gov/airports/airport_safety/airportdata_5010/. Accessed Sep. 16, 2021.
13. Texas Department of Transportation. Texas Airport System Plan. <https://www.txdot.gov/inside-txdot/division/aviation/system-plan.html>. Accessed Sep. 16, 2021.
14. Federal Aviation Administration. Traffic Flow Management System Counts. <https://aspm.faa.gov/tfms/sys/main.asp>. Accessed Sep. 16, 2021.
15. U.S. EPA. *Calculating Piston-Engine Aircraft Airport Inventories for Lead for the 2011 National Emissions Inventor*. 2011.

16. Chevron Products Company. *Aviation Fuels Technical Review*.
17. Venugopal, M., R. Huch, M. Boardman, and S. Vallamsundar. *Development of Texas Airport Activity Data Set*. Texas A&M Transportation Institute, 2020.
18. Federal Aviation Administration. Terminal Area Forecast (TAF). https://www.faa.gov/data_research/aviation/taf/. Accessed Sep. 16, 2021.
19. Federal Aviation Administration. Operations Network (OPSNET). <https://aspm.faa.gov/opsnet/sys/main.asp>. Accessed Sep. 16, 2021.
20. Federal Aviation Administration. Aviation System Performance Metrics (ASPM). <https://aspm.faa.gov/apm/sys/main.asp>. Accessed Sep. 16, 2021.
21. US EPA, O. National Emissions Inventory (NEI). <https://www.epa.gov/air-emissions-inventories/national-emissions-inventory-nei>. Accessed Sep. 16, 2021.
22. AirNav. <https://www.airnav.com/>. Accessed Sep. 16, 2021.
23. U.S. Energy Information Administration. Annual Energy Outlook. <https://www.eia.gov/outlooks/aeo/>. Accessed Sep. 1, 2021.
24. Federal Aviation Administration. <https://adds-faa.opendata.arcgis.com/>. Accessed Aug. 23, 2021.
25. Texas County Boundaries Detailed. https://gis-txdot.opendata.arcgis.com/datasets/8b902883539a416780440ef009b3f80f_0. Accessed Aug. 23, 2021.
26. Federal Aviation Administration. <https://aspm.faa.gov/>. Accessed Aug. 26, 2021.
27. Parise, J., and P. Pringle. HAS 2019 and 2020 Emissions Inventories. Mar 26, 2021.
28. Federal Aviation Administration. Overview of the AEDT Model. , 2006.
29. *Aviation Environmental Design Tool. Technical Manual*. 2021.
30. USEPA. Guidance for Quality Assurance Project Plans for Modeling. 2002.
31. USEPA, M. *EPA Requirements for Quality Assurance Project Plans*. EPA/240/B-01/003 <http://www.epa.gov/quality>, 2001.
32. Eastman Aviation Solutions. *Turbine-Engined Fleets of the World's Airlines*. Eastman Chemical Company, 2018.

APPENDIX A: TOG SPECIATED POLLUTANTS

Table 21. TOG Speciation Profile (Source: AEDT).

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|------------------|----------------|------------------------|---------------|
| Aircraft: Piston | 50000 | Formaldehyde | 0.1414 |
| Aircraft: Piston | 66251 | Hexaldehyde | 0.002 |
| Aircraft: Piston | 67641 | Acetone | 0.0293 |
| Aircraft: Piston | 71432 | Benzene | 0.0179 |
| Aircraft: Piston | 74828 | Methane | 0.1095 |
| Aircraft: Piston | 74840 | Ethane | 0.0092 |
| Aircraft: Piston | 74851 | Ethylene | 0.155 |
| Aircraft: Piston | 74862 | Acetylene | 0.0369 |
| Aircraft: Piston | 74986 | Propane | 0.002 |
| Aircraft: Piston | 75070 | Acetaldehyde | 0.0432 |
| Aircraft: Piston | 91203 | Naphthalene | 0.0051 |
| Aircraft: Piston | 95476 | O-xylene | 0.0018 |
| Aircraft: Piston | 98000 | Furfuryl alcohol | 0.0181 |
| Aircraft: Piston | 100414 | Ethylbenzene | 0.0015 |
| Aircraft: Piston | 100425 | Styrene | 0.0037 |
| Aircraft: Piston | 100527 | Benzaldehyde | 0.0053 |
| Aircraft: Piston | 104518 | N-butylbenzene | 0.0022 |
| Aircraft: Piston | 106989 | 1-butene | 0.0179 |
| Aircraft: Piston | 106990 | 1,3-butadiene | 0.0157 |
| Aircraft: Piston | 107028 | Acrolein | 0.0206 |
| Aircraft: Piston | 107222 | Glyoxal | 0.0253 |
| Aircraft: Piston | 107835 | 2-methylpentane | 0.0035 |
| Aircraft: Piston | 108883 | Toluene | 0.0049 |
| Aircraft: Piston | 108952 | Phenol (carbolic acid) | 0.0022 |
| Aircraft: Piston | 109660 | N-pentane | 0.0019 |
| Aircraft: Piston | 109671 | 1-pentene | 0.0075 |
| Aircraft: Piston | 111659 | N-octane | 0.0004 |
| Aircraft: Piston | 111660 | 1-octene | 0.0025 |
| Aircraft: Piston | 111842 | N-nonane | 0.0015 |
| Aircraft: Piston | 112403 | N-dodecane | 0.0121 |
| Aircraft: Piston | 115071 | Propylene | 0.0459 |
| Aircraft: Piston | 123386 | Propionaldehyde | 0.009 |
| Aircraft: Piston | 123728 | Butyraldehyde | 0.0119 |
| Aircraft: Piston | 124118 | 1-nonene | 0.0022 |
| Aircraft: Piston | 124185 | N-decane | 0.0042 |
| Aircraft: Piston | 142825 | N-heptane | 0.0006 |
| Aircraft: Piston | 513359 | 2-methyl-2-butene | 0.0018 |
| Aircraft: Piston | 538681 | N-pentylbenzene | 0.0017 |
| Aircraft: Piston | 544763 | N-Hexadecane | 0.0014 |
| Aircraft: Piston | 590181 | Cis-2-butene | 0.0045 |
| Aircraft: Piston | 592416 | 1-hexene | 0.0076 |
| Aircraft: Piston | 629505 | N-tridecane | 0.0066 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|---------------------------|--------------------|--|---------------|
| Aircraft: Piston | 629594 | N-Tetradecane | 0.0059 |
| Aircraft: Piston | 629629 | N-Pentadecane | 0.0027 |
| Aircraft: Piston | 629787 | N-heptadecane | 0.0001 |
| Aircraft: Piston | 872059 | 1-decene | 0.0015 |
| Aircraft: Piston | 1120214 | N-undecane | 0.0052 |
| Aircraft: Piston | 25339564 | Heptene | 0.0052 |
| Aircraft: Piston | 108383 & 106423 | M & P-xylene | 0.0026 |
| Aircraft: Piston | - | C-16 Alkane | 0.0013 |
| Aircraft: Piston | - | C6H18O3SI3 | 0.1177 |
| Aircraft: Piston | - | C7-C16 Paraffins | 0.0027 |
| Aircraft: Piston | - | C8H24O4SI4 | 0.042 |
| Aircraft: Piston | - | Isomers of dodecane | 0.0016 |
| Aircraft: Piston | - | Isomers of pentadecane | 0.0015 |
| Aircraft: Piston | - | Isomers of pentene | 0.0064 |
| Aircraft: Piston | - | Isomers of tetradecane | 0.0017 |
| Aircraft: Piston | - | Methyl naphthalenes | 0.0044 |
| Aircraft: Turbine and APU | 50000 | Formaldehyde | 0.1231 |
| Aircraft: Turbine and APU | 67561 | Methyl alcohol | 0.01805 |
| Aircraft: Turbine and APU | 67641 | Acetone | 0.00369 |
| Aircraft: Turbine and APU | 71432 | Benzene | 0.01681 |
| Aircraft: Turbine and APU | 74840 | Ethane | 0.00521 |
| Aircraft: Turbine and APU | 74851 | Ethylene | 0.15461 |
| Aircraft: Turbine and APU | 74862 | Acetylene | 0.03939 |
| Aircraft: Turbine and APU | 74986 | Propane | 0.00078 |
| Aircraft: Turbine and APU | 75070 | Acetaldehyde | 0.04272 |
| Aircraft: Turbine and APU | 78853 | 2-methyl-2-propenal (methacrolein) | 0.00429 |
| Aircraft: Turbine and APU | 78988 | Methylglyoxal | 0.01503 |
| Aircraft: Turbine and APU | 90120 | 1-Methylnaphthalene | 0.00247 |
| Aircraft: Turbine and APU | 91203 | Naphthalene | 0.00541 |
| Aircraft: Turbine and APU | 91576 | 2-methylnaphthalene | 0.00206 |
| Aircraft: Turbine and APU | 95476 | O-xylene | 0.00166 |
| Aircraft: Turbine and APU | 95636 | 1,2,4-trimethylbenzene (1,3,4-trimethylbenzene) | 0.0035 |
| Aircraft: Turbine and APU | 98828 | Isopropylbenzene (cumene) | 0.00003 |
| Aircraft: Turbine and APU | 100414 | Ethylbenzene | 0.00174 |
| Aircraft: Turbine and APU | 100425 | Styrene | 0.00309 |
| Aircraft: Turbine and APU | 100527 | Benzaldehyde | 0.0047 |
| Aircraft: Turbine and APU | 103651 | N-propylbenzene | 0.00053 |
| Aircraft: Turbine and APU | 104870 | p-Tolualdehyde | 0.00048 |
| Aircraft: Turbine and APU | 106989 | 1-butene | 0.01754 |
| Aircraft: Turbine and APU | 106990 | 1,3-butadiene | 0.01687 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|---------------------------|----------------|---|---------------|
| Aircraft: Turbine and APU | 107028 | Acrolein | 0.02449 |
| Aircraft: Turbine and APU | 107222 | Glyoxal | 0.01816 |
| Aircraft: Turbine and APU | 107835 | 2-methylpentane | 0.00408 |
| Aircraft: Turbine and APU | 108678 | 1,3,5-trimethylbenzene | 0.00054 |
| Aircraft: Turbine and APU | 108883 | Toluene | 0.00642 |
| Aircraft: Turbine and APU | 108952 | Phenol (carbolic acid) | 0.00726 |
| Aircraft: Turbine and APU | 109660 | N-pentane | 0.00198 |
| Aircraft: Turbine and APU | 109671 | 1-pentene | 0.00776 |
| Aircraft: Turbine and APU | 110623 | Valeraldehyde | 0.00245 |
| Aircraft: Turbine and APU | 111659 | N-octane | 0.00062 |
| Aircraft: Turbine and APU | 111660 | 1-octene | 0.00276 |
| Aircraft: Turbine and APU | 111842 | N-nonane | 0.00062 |
| Aircraft: Turbine and APU | 112312 | Decanol | 0.05843 |
| Aircraft: Turbine and APU | 112403 | N-dodecane | 0.00462 |
| Aircraft: Turbine and APU | 112538 | Dodecanol | 0.02921 |
| Aircraft: Turbine and APU | 115071 | Propylene | 0.04534 |
| Aircraft: Turbine and APU | 123386 | Propionaldehyde | 0.00727 |
| Aircraft: Turbine and APU | 123728 | Butyraldehyde | 0.00119 |
| Aircraft: Turbine and APU | 124118 | 1-nonene | 0.00246 |
| Aircraft: Turbine and APU | 124185 | N-decane | 0.0032 |
| Aircraft: Turbine and APU | 142825 | N-heptane | 0.00064 |
| Aircraft: Turbine and APU | 513359 | 2-methyl-2-butene | 0.00185 |
| Aircraft: Turbine and APU | 526738 | 1,2,3-trimethylbenzene | 0.00106 |
| Aircraft: Turbine and APU | 529204 | o-Tolualdehyde | 0.0023 |
| Aircraft: Turbine and APU | 544763 | N-Hexadecane | 0.00049 |
| Aircraft: Turbine and APU | 563451 | 3-methyl-1-butene | 0.00112 |
| Aircraft: Turbine and APU | 563462 | 2-methyl-1-butene | 0.0014 |
| Aircraft: Turbine and APU | 590181 | Cis-2-butene | 0.0021 |
| Aircraft: Turbine and APU | 590863 | Isovaleraldehyde | 0.00032 |
| Aircraft: Turbine and APU | 592416 | 1-hexene | 0.00736 |
| Aircraft: Turbine and APU | 611143 | 1-Methyl-2-ethylbenzene (o-ethyltoluene) | 0.00065 |
| Aircraft: Turbine and APU | 620144 | 1-Methyl-3-ethylbenzene (m-ethyltoluene) | 0.00154 |
| Aircraft: Turbine and APU | 620235 | Tolualdehyde | 0.00278 |
| Aircraft: Turbine and APU | 622968 | 1-Methyl-4-ethylbenzene (p-ethyltoluene) | 0.00064 |
| Aircraft: Turbine and APU | 627203 | Cis-2-pentene | 0.00276 |
| Aircraft: Turbine and APU | 629505 | N-tridecane | 0.00535 |
| Aircraft: Turbine and APU | 629594 | N-Tetradecane | 0.00416 |
| Aircraft: Turbine and APU | 629629 | N-Pentadecane | 0.00173 |
| Aircraft: Turbine and APU | 629787 | N-heptadecane | 0.00009 |
| Aircraft: Turbine and APU | 646048 | Trans-2-pentene | 0.00359 |
| Aircraft: Turbine and APU | 691372 | 4-methyl-1-pentene | 0.00069 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|---------------------------|--------------------|-----------------------------|---------------|
| Aircraft: Turbine and APU | 763291 | 2-methyl-1-pentene | 0.00034 |
| Aircraft: Turbine and APU | 872059 | 1-decene | 0.00185 |
| Aircraft: Turbine and APU | 1120214 | N-undecane | 0.00444 |
| Aircraft: Turbine and APU | 4050457 | Trans-2-hexene | 0.0003 |
| Aircraft: Turbine and APU | 4170303 | Crotonaldehyde | 0.01033 |
| Aircraft: Turbine and APU | 25339564 | Heptene | 0.00438 |
| Aircraft: Turbine and APU | 28804888 | Dimethyl naphthalene | 0.0009 |
| Aircraft: Turbine and APU | 108383 & 106423 | M & P-xylene | 0.00282 |
| Aircraft: Turbine and APU | - | C-10 Olefins | 0.05843 |
| Aircraft: Turbine and APU | - | C-10 Paraffins | 0.14606 |
| Aircraft: Turbine and APU | - | C-14 Alkane | 0.00186 |
| Aircraft: Turbine and APU | - | C-15 Alkane | 0.00177 |
| Aircraft: Turbine and APU | - | C-16 Alkane | 0.00146 |
| Aircraft: Turbine and APU | - | C-18 Alkane | 0.00002 |
| Aircraft: Turbine and APU | - | C-4 Benzene + C-3 Aroald | 0.00656 |
| Aircraft: Turbine and APU | - | C-5 Benzene + C-4 Aroald | 0.00324 |
| GSE: Diesel | 50000 | Formaldehyde | 0.0861 |
| GSE: Diesel | 66251 | Hexaldehyde | 0.0008 |
| GSE: Diesel | 75070 | Acetaldehyde | 0.0291 |
| GSE: Diesel | 100527 | Benzaldehyde | 0.0055 |
| GSE: Diesel | 123386 | Propionaldehyde | 0.0177 |
| GSE: Diesel | 4170303 | Crotonaldehyde | 0.0101 |
| GSE: Diesel | - | C-1 Compounds | 0.058 |
| GSE: Diesel | - | C-10 Compounds | 0.0352 |
| GSE: Diesel | - | C-11 Compounds | 0.0358 |
| GSE: Diesel | - | C-12 Compounds | 0.022 |
| GSE: Diesel | - | C-13 Compounds | 0.0343 |
| GSE: Diesel | - | C-14 Compounds | 0.0445 |
| GSE: Diesel | - | C-15 Compounds | 0.0435 |
| GSE: Diesel | - | C-16 Compounds | 0.0349 |
| GSE: Diesel | - | C-17 Compounds | 0.0306 |
| GSE: Diesel | - | C-18 Compounds | 0.0204 |
| GSE: Diesel | - | C-19 Compounds | 0.0156 |
| GSE: Diesel | - | C-2 Compounds | 0.1996 |
| GSE: Diesel | - | C-20 Compounds | 0.0091 |
| GSE: Diesel | - | C-21 Compounds | 0.0075 |
| GSE: Diesel | - | C-22 Compounds | 0.0059 |
| GSE: Diesel | - | C-23 Compounds | 0.0048 |
| GSE: Diesel | - | C-24 Compounds | 0.0048 |
| GSE: Diesel | - | C-25 Compounds | 0.0054 |
| GSE: Diesel | - | C-26 Compounds | 0.0044 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|----------------------------|----------------|--|---------------|
| GSE: Diesel | - | C-27 Compounds | 0.0022 |
| GSE: Diesel | - | C-28 Compounds | 0.0032 |
| GSE: Diesel | - | C-29 Compounds | 0.0014 |
| GSE: Diesel | - | C-3 Compounds | 0.0521 |
| GSE: Diesel | - | C-30 Compounds | 0.0032 |
| GSE: Diesel | - | C-31 Compounds | 0.0029 |
| GSE: Diesel | - | C-32 Compounds | 0.0027 |
| GSE: Diesel | - | C-33 Compounds | 0.0022 |
| GSE: Diesel | - | C-34 Compounds | 0.0024 |
| GSE: Diesel | - | C-35 Compounds | 0.0016 |
| GSE: Diesel | - | C-36 Compounds | 0.002 |
| GSE: Diesel | - | C-37 Compounds | 0.0008 |
| GSE: Diesel | - | C-38 Compounds | 0.0005 |
| GSE: Diesel | - | C-39 Compounds | 0.0011 |
| GSE: Diesel | - | C-4 Compounds | 0.0408 |
| GSE: Diesel | - | C-40 Compounds | 0.0002 |
| GSE: Diesel | - | C-41 Compounds | 0.0005 |
| GSE: Diesel | - | C-42 Compounds | 0.0002 |
| GSE: Diesel | - | C-43 compounds | 0.0001 |
| GSE: Diesel | - | C-5 Compounds | 0.0236 |
| GSE: Diesel | - | C-6 Compounds | 0.043 |
| GSE: Diesel | - | C-7 Compounds | 0.0289 |
| GSE: Diesel | - | C-8 Compounds | 0.0113 |
| GSE: Diesel | - | C-9 Compounds | 0.0075 |
| GSE: Gasoline, LPG and CNG | 71432 | Benzene | 0.0175 |
| GSE: Gasoline, LPG and CNG | 74828 | Methane | 0.0245 |
| GSE: Gasoline, LPG and CNG | 74840 | Ethane | 0.0069 |
| GSE: Gasoline, LPG and CNG | 74851 | Ethylene | 0.0435 |
| GSE: Gasoline, LPG and CNG | 74862 | Acetylene | 0.0266 |
| GSE: Gasoline, LPG and CNG | 74997 | 1-propyne | 0.0024 |
| GSE: Gasoline, LPG and CNG | 75285 | Isobutane | 0.0343 |
| GSE: Gasoline, LPG and CNG | 75832 | 2,2-dimethylbutane | 0.0022 |
| GSE: Gasoline, LPG and CNG | 78784 | Isopentane | 0.1104 |
| GSE: Gasoline, LPG and CNG | 78795 | Isoprene | 0.001 |
| GSE: Gasoline, LPG and CNG | 79298 | 2,3-dimethylbutane | 0.0098 |
| GSE: Gasoline, LPG and CNG | 95476 | O-xylene | 0.0091 |
| GSE: Gasoline, LPG and CNG | 95636 | 1,2,4-trimethylbenzene (1,3,4-trimethylbenzene) | 0.0144 |
| GSE: Gasoline, LPG and CNG | 96140 | 3-methylpentane | 0.0154 |
| GSE: Gasoline, LPG and CNG | 96377 | Methylcyclopentane | 0.0111 |
| GSE: Gasoline, LPG and CNG | 100414 | Ethylbenzene | 0.0067 |
| GSE: Gasoline, LPG and CNG | 103651 | N-propylbenzene | 0.0031 |
| GSE: Gasoline, LPG and CNG | 104518 | N-butylbenzene | 0.0021 |
| GSE: Gasoline, LPG and CNG | 106978 | N-butane | 0.2242 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|----------------------------|----------------|--|---------------|
| GSE: Gasoline, LPG and CNG | 106989 | 1-butene | 0.0111 |
| GSE: Gasoline, LPG and CNG | 107391 | 2,4,4-trimethyl-1-pentene | 0.0173 |
| GSE: Gasoline, LPG and CNG | 107835 | 2-methylpentane | 0.0281 |
| GSE: Gasoline, LPG and CNG | 108087 | 2,4-dimethylpentane | 0.0064 |
| GSE: Gasoline, LPG and CNG | 108383 | M-xylene | 0.0186 |
| GSE: Gasoline, LPG and CNG | 108678 | 1,3,5-trimethylbenzene | 0.0121 |
| GSE: Gasoline, LPG and CNG | 108872 | Methylcyclohexane | 0.0026 |
| GSE: Gasoline, LPG and CNG | 108883 | Toluene | 0.0298 |
| GSE: Gasoline, LPG and CNG | 109660 | N-pentane | 0.0486 |
| GSE: Gasoline, LPG and CNG | 109671 | 1-pentene | 0.0041 |
| GSE: Gasoline, LPG and CNG | 110543 | N-hexane | 0.0153 |
| GSE: Gasoline, LPG and CNG | 110838 | Cyclohexene | 0.0158 |
| GSE: Gasoline, LPG and CNG | 111659 | N-octane | 0.0024 |
| GSE: Gasoline, LPG and CNG | 111842 | N-nonane | 0.0011 |
| GSE: Gasoline, LPG and CNG | 115071 | Propylene | 0.0157 |
| GSE: Gasoline, LPG and CNG | 124185 | N-decane | 0.0011 |
| GSE: Gasoline, LPG and CNG | 135013 | 1,2-diethylbenzene (ortho) | 0.003 |
| GSE: Gasoline, LPG and CNG | 135988 | (1-Methylpropyl)benzene | 0.0005 |
| GSE: Gasoline, LPG and CNG | 141935 | 1,3-diethylbenzene (meta) | 0.0023 |
| GSE: Gasoline, LPG and CNG | 142290 | Cyclopentene | 0.0029 |
| GSE: Gasoline, LPG and CNG | 142825 | N-heptane | 0.0073 |
| GSE: Gasoline, LPG and CNG | 287923 | Cyclopentane | 0.0048 |
| GSE: Gasoline, LPG and CNG | 463490 | 1,2-propadiene | 0.0011 |
| GSE: Gasoline, LPG and CNG | 496117 | Indan | 0.0032 |
| GSE: Gasoline, LPG and CNG | 513359 | 2-methyl-2-butene | 0.0011 |
| GSE: Gasoline, LPG and CNG | 526738 | 1,2,3-trimethylbenzene | 0.0026 |
| GSE: Gasoline, LPG and CNG | 540841 | 2,2,4-trimethylpentane | 0.015 |
| GSE: Gasoline, LPG and CNG | 560214 | 2,3,3-trimethylpentane | 0.0042 |
| GSE: Gasoline, LPG and CNG | 563451 | 3-methyl-1-butene | 0.0014 |
| GSE: Gasoline, LPG and CNG | 565753 | 2,3,4-trimethylpentane | 0.0026 |
| GSE: Gasoline, LPG and CNG | 589435 | 2,4-dimethylhexane | 0.0042 |
| GSE: Gasoline, LPG and CNG | 589537 | 4-methylheptane | 0.0025 |
| GSE: Gasoline, LPG and CNG | 589811 | 3-methylheptane | 0.0035 |
| GSE: Gasoline, LPG and CNG | 590181 | Cis-2-butene | 0.0067 |
| GSE: Gasoline, LPG and CNG | 592278 | 2-methylheptane | 0.0026 |
| GSE: Gasoline, LPG and CNG | 592416 | 1-hexene | 0.0028 |
| GSE: Gasoline, LPG and CNG | 620144 | 1-Methyl-3-ethylbenzene (m-ethyltoluene) | 0.0016 |
| GSE: Gasoline, LPG and CNG | 624293 | Cis-1,4-dimethylcyclohexane | 0.0008 |
| GSE: Gasoline, LPG and CNG | 624646 | Trans-2-butene | 0.0089 |
| GSE: Gasoline, LPG and CNG | 625274 | 2-methyl-2-pentene | 0.0034 |

| Profile Name | Pollutant Code | Pollutant Name | Mass Fraction |
|----------------------------|----------------|--------------------------|---------------|
| GSE: Gasoline, LPG and CNG | 627203 | Cis-2-pentene | 0.0097 |
| GSE: Gasoline, LPG and CNG | 646048 | Trans-2-pentene | 0.0082 |
| GSE: Gasoline, LPG and CNG | 693890 | 1-Methylcyclopentene | 0.0003 |
| GSE: Gasoline, LPG and CNG | 768569 | 4-Phenyl-1-butene | 0.0026 |
| GSE: Gasoline, LPG and CNG | 821954 | 1-undecene | 0.0014 |
| GSE: Gasoline, LPG and CNG | 1069530 | 2,3,5-trimethylhexane | 0.0008 |
| GSE: Gasoline, LPG and CNG | 1074437 | 1-Methyl-3-propylbenzene | 0.0016 |
| GSE: Gasoline, LPG and CNG | 1120214 | N-undecane | 0.0014 |
| GSE: Gasoline, LPG and CNG | 2051301 | 2,6-dimethyloctane | 0.0007 |
| GSE: Gasoline, LPG and CNG | 2213232 | 2,4-dimethylheptane | 0.0008 |
| GSE: Gasoline, LPG and CNG | 2216300 | 2,5-dimethylheptane | 0.0013 |
| GSE: Gasoline, LPG and CNG | 2216333 | 3-methyloctane | 0.0031 |
| GSE: Gasoline, LPG and CNG | 2216344 | 4-methyloctane | 0.0039 |
| GSE: Gasoline, LPG and CNG | 3221612 | 2-methyloctane | 0.0004 |
| GSE: Gasoline, LPG and CNG | 3522949 | 2,2,5-trimethylhexane | 0.0024 |
| GSE: Gasoline, LPG and CNG | 6434782 | T-2-Nonene | 0.0017 |
| GSE: Gasoline, LPG and CNG | 6975980 | 2-methyldecane | 0.0063 |
| GSE: Gasoline, LPG and CNG | 7146603 | 2,3-dimethyloctane | 0.0052 |
| GSE: Gasoline, LPG and CNG | 7688213 | Cis-2-hexene | 0.0011 |
| GSE: Gasoline, LPG and CNG | - | Cyclopentylcyclopentane | 0.0046 |
| GSE: Gasoline, LPG and CNG | - | Hexyne | 0.0002 |
| GSE: Gasoline, LPG and CNG | - | Methylcyclooctane | 0.0033 |
| GSE: Gasoline, LPG and CNG | - | Pentyne | 0.0019 |
| GSE: Gasoline, LPG and CNG | - | T-1-Phenylbutene | 0.0023 |

Note: “-” indicates that the pollutant did not have a pollutant code (alias Chemical Abstracts Service (CAS) Number). These pollutants are not included in the final reporting.

APPENDIX B: 2019 OPERATIONS (ELECTRONIC ONLY)

Available from the TCEQ upon request.

APPENDIX C: FLEET MIX (ELECTRONIC ONLY)

Available from the TCEQ upon request.

APPENDIX D: FORECASTING FACTORS (ELECTRONIC ONLY)

Available from the TCEQ upon request.

APPENDIX E: UNCONTROLLED 2020 ANNUAL AND DAILY COUNTY- LEVEL EMISSIONS FOR TEXAS

Uncontrolled 2020 Annual County-Level Emissions by Criteria Pollutant (tons/year).

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Anderson | 2275020000 | 0.7393 | 0.3088 | 3.6269 | 0.0087 | 0.0604 | 0.0006 |
| Anderson | 2275060012 | 0.1950 | 5.2203 | 1.1073 | 0.0594 | 0.2969 | 0.0000 |
| Anderson | 2275050011 | 0.8265 | 0.0684 | 38.6055 | 0.0223 | 0.0454 | 0.0217 |
| Anderson | 2275050012 | 5.8766 | 3.7511 | 19.4369 | 0.0852 | 0.5762 | 0.0000 |
| Anderson | 2275001000 | 0.0347 | 0.0678 | 0.3713 | 0.0003 | 0.0098 | 0.0000 |
| Andrews | 2275020000 | 0.1301 | 0.0641 | 0.5580 | 0.0011 | 0.0154 | 0.0000 |
| Andrews | 2275060012 | 0.0228 | 0.0017 | 0.0527 | 0.0002 | 0.0005 | 0.0000 |
| Andrews | 2275050011 | 0.2273 | 0.0082 | 11.4596 | 0.0058 | 0.0118 | 0.0065 |
| Andrews | 2275050012 | 1.7871 | 1.5150 | 8.3769 | 0.0227 | 0.2621 | 0.0000 |
| Andrews | 2275001000 | 0.0006 | 0.0067 | 0.0091 | 0.0000 | 0.0014 | 0.0000 |
| Angelina | 2275020000 | 0.2805 | 0.2457 | 4.1954 | 0.0035 | 0.0443 | 0.0019 |
| Angelina | 2275060012 | 0.1558 | 0.0807 | 0.3275 | 0.0015 | 0.0134 | 0.0000 |
| Angelina | 2275050011 | 1.9746 | 0.0588 | 98.1467 | 0.0508 | 0.0898 | 0.0536 |
| Angelina | 2275050012 | 6.5182 | 14.0335 | 24.7977 | 0.1925 | 1.2117 | 0.0000 |
| Angelina | 2275001000 | 0.7756 | 0.1701 | 3.9081 | 0.0068 | 0.0536 | 0.0003 |
| Aransas | 2275020000 | 4.8661 | 0.9241 | 9.6751 | 0.0397 | 0.1891 | 0.0004 |
| Aransas | 2275060012 | 1.3625 | 10.9177 | 4.8975 | 0.1265 | 0.6913 | 0.0000 |
| Aransas | 2275050011 | 3.0095 | 0.1303 | 160.7636 | 0.0827 | 0.1721 | 0.0908 |
| Aransas | 2275050012 | 19.7527 | 27.2409 | 59.3845 | 0.4608 | 2.4709 | 0.0000 |
| Aransas | 2275001000 | 1.5145 | 0.6574 | 5.4010 | 0.0145 | 0.1528 | 0.0001 |
| Archer | 2275050011 | 0.2126 | 0.0075 | 9.2401 | 0.0059 | 0.0088 | 0.0054 |
| Archer | 2275050012 | 0.0064 | 0.0005 | 0.0147 | 0.0001 | 0.0002 | 0.0000 |
| Armstrong | 2275050011 | 0.0784 | 0.0028 | 3.6671 | 0.0023 | 0.0034 | 0.0021 |
| Armstrong | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Atascosa | 2275020000 | 0.2270 | 0.0508 | 1.3480 | 0.0020 | 0.0167 | 0.0002 |
| Atascosa | 2275050011 | 1.1684 | 0.0104 | 58.1761 | 0.0356 | 0.0482 | 0.0309 |
| Atascosa | 2275050012 | 2.9642 | 1.7901 | 8.4677 | 0.0354 | 0.2566 | 0.0000 |
| Atascosa | 2275001000 | 0.3388 | 0.1309 | 1.5991 | 0.0030 | 0.0347 | 0.0000 |
| Austin | 2275050011 | 0.3839 | 0.0141 | 18.7612 | 0.0121 | 0.0177 | 0.0109 |
| Austin | 2275050012 | 0.0538 | 0.0306 | 0.1298 | 0.0004 | 0.0047 | 0.0000 |
| Bailey | 2275020000 | 0.1938 | 0.0380 | 0.8421 | 0.0019 | 0.0125 | 0.0000 |
| Bailey | 2275050011 | 1.3875 | 0.0524 | 74.8584 | 0.0464 | 0.0714 | 0.0441 |
| Bailey | 2275050012 | 1.1414 | 0.3192 | 2.7052 | 0.0107 | 0.0641 | 0.0000 |
| Bailey | 2275001000 | 0.0186 | 0.3220 | 0.1104 | 0.0036 | 0.0201 | 0.0000 |
| Bandera | 2275050011 | 0.3500 | 0.0124 | 15.8671 | 0.0101 | 0.0149 | 0.0093 |
| Bandera | 2275050012 | 0.0298 | 0.0292 | 0.0754 | 0.0002 | 0.0041 | 0.0000 |
| Bastrop | 2275050011 | 2.2743 | 0.1148 | 114.5822 | 0.0665 | 0.1400 | 0.0721 |
| Bastrop | 2275050012 | 0.7664 | 0.2639 | 2.0978 | 0.0073 | 0.0675 | 0.0000 |
| Bastrop | 2275001000 | 0.9735 | 0.0942 | 2.2923 | 0.0079 | 0.0298 | 0.0000 |
| Baylor | 2275020000 | 0.2661 | 0.0836 | 0.9921 | 0.0053 | 0.0211 | 0.0000 |
| Baylor | 2275050011 | 0.1585 | 0.0053 | 8.9848 | 0.0039 | 0.0096 | 0.0050 |
| Baylor | 2275050012 | 2.1121 | 0.9013 | 4.8324 | 0.0211 | 0.1460 | 0.0000 |
| Baylor | 2275001000 | 0.0334 | 2.0073 | 0.3345 | 0.0225 | 0.1137 | 0.0000 |
| Bee | 2275020000 | 0.3540 | 0.0549 | 0.9094 | 0.0032 | 0.0148 | 0.0001 |
| Bee | 2275060012 | 0.0818 | 0.0372 | 0.1706 | 0.0008 | 0.0055 | 0.0000 |
| Bee | 2275050011 | 0.1461 | 0.0041 | 7.8937 | 0.0039 | 0.0081 | 0.0043 |
| Bee | 2275050012 | 0.9699 | 2.1827 | 4.0001 | 0.0277 | 0.2030 | 0.0000 |
| Bee | 2275001000 | 0.1794 | 0.1877 | 0.6261 | 0.0015 | 0.0402 | 0.0000 |
| Bell | 2275020000 | 17.0802 | 54.5844 | 74.0493 | 0.4598 | 5.4472 | 0.0019 |
| Bell | 2275060012 | 1.7980 | 17.4147 | 7.9483 | 0.2167 | 1.1376 | 0.0000 |
| Bell | 2275050011 | 5.0763 | 0.4059 | 266.1086 | 0.1375 | 0.2613 | 0.1551 |
| Bell | 2275050012 | 23.5234 | 18.1290 | 66.0035 | 0.3505 | 2.2265 | 0.0000 |
| Bell | 2275001000 | 14.1853 | 4.3968 | 43.8767 | 0.1190 | 0.7673 | 0.0002 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Bell | 2275070000 | 0.0355 | 0.5262 | 1.2998 | 0.0733 | 0.1024 | 0.0000 |
| Bell | 2265008005 | 0.1042 | 0.2623 | 4.0848 | 0.0000 | 0.0000 | 0.0000 |
| Bell | 2270008005 | 0.0212 | 0.1168 | 0.0240 | 0.0023 | 0.0000 | 0.0000 |
| Bexar | 2275020000 | 51.6970 | 356.0245 | 322.3607 | 2.6818 | 31.3885 | 0.0368 |
| Bexar | 2275060012 | 2.4110 | 12.1154 | 9.9341 | 0.1411 | 1.1144 | 0.0000 |
| Bexar | 2275050011 | 13.3312 | 0.6986 | 724.3511 | 0.4317 | 0.7960 | 0.4178 |
| Bexar | 2275050012 | 48.1312 | 46.0626 | 150.5707 | 0.8096 | 5.7210 | 0.0000 |
| Bexar | 2275001000 | 64.0372 | 32.1396 | 379.4614 | 0.7498 | 7.1150 | 0.0039 |
| Bexar | 2275070000 | 1.4767 | 14.8747 | 18.6923 | 1.7519 | 2.3982 | 0.0000 |
| Bexar | 2265008005 | 3.3255 | 6.6439 | 115.0182 | 0.0000 | 0.0000 | 0.0000 |
| Bexar | 2270008005 | 0.8907 | 5.9717 | 1.7628 | 0.0754 | 0.0000 | 0.0000 |
| Blanco | 2275050011 | 3.1170 | 0.1072 | 128.7738 | 0.0808 | 0.1211 | 0.0752 |
| Blanco | 2275050012 | 0.0149 | 0.0008 | 0.0335 | 0.0001 | 0.0003 | 0.0000 |
| Bosque | 2275020000 | 0.7581 | 0.1690 | 3.8244 | 0.0071 | 0.0546 | 0.0000 |
| Bosque | 2275050011 | 0.6052 | 0.0761 | 32.4725 | 0.0187 | 0.0448 | 0.0278 |
| Bosque | 2275050012 | 1.0573 | 0.4256 | 2.5823 | 0.0092 | 0.0961 | 0.0000 |
| Bosque | 2275001000 | 0.0642 | 4.2718 | 0.6989 | 0.0478 | 0.2418 | 0.0000 |
| Bowie | 2275050011 | 0.0784 | 0.0030 | 4.2860 | 0.0028 | 0.0040 | 0.0025 |
| Bowie | 2275050012 | 0.0228 | 0.0766 | 0.0738 | 0.0001 | 0.0100 | 0.0000 |
| Brazoria | 2275020000 | 4.7277 | 1.0941 | 54.9028 | 0.0505 | 0.2860 | 0.0287 |
| Brazoria | 2275060012 | 0.7491 | 4.1484 | 2.3063 | 0.0530 | 0.2921 | 0.0000 |
| Brazoria | 2275050011 | 14.8347 | 0.7384 | 777.2265 | 0.3874 | 0.7608 | 0.4470 |
| Brazoria | 2275050012 | 66.1779 | 19.7081 | 147.8361 | 0.7758 | 4.3229 | 0.0000 |
| Brazoria | 2275001000 | 0.3108 | 0.6010 | 3.0019 | 0.0095 | 0.1271 | 0.0000 |
| Brazoria | 2275070000 | 0.0880 | 0.8589 | 4.6749 | 0.1169 | 0.2128 | 0.0000 |
| Brazoria | 2265008005 | 0.4649 | 1.1133 | 17.7066 | 0.0000 | 0.0000 | 0.0000 |
| Brazoria | 2270008005 | 0.1054 | 0.6396 | 0.1353 | 0.0256 | 0.0000 | 0.0000 |
| Brazos | 2275020000 | 12.4746 | 33.2084 | 44.9869 | 0.3426 | 3.2303 | 0.0047 |
| Brazos | 2275060012 | 1.2819 | 8.3613 | 4.3720 | 0.0989 | 0.5972 | 0.0000 |
| Brazos | 2275050011 | 3.4480 | 0.1889 | 180.0998 | 0.0962 | 0.1768 | 0.1024 |
| Brazos | 2275050012 | 15.0345 | 14.8825 | 50.8095 | 0.2557 | 1.8687 | 0.0000 |
| Brazos | 2275001000 | 8.4871 | 1.4159 | 25.1139 | 0.0850 | 0.4086 | 0.0006 |
| Brazos | 2275070000 | 0.1087 | 1.1599 | 3.2922 | 0.1736 | 0.2656 | 0.0000 |
| Brazos | 2265008005 | 0.5405 | 1.3043 | 20.6055 | 0.0000 | 0.0000 | 0.0000 |
| Brazos | 2270008005 | 0.0673 | 0.4877 | 0.0857 | 0.0064 | 0.0000 | 0.0000 |
| Brewster | 2275020000 | 0.6961 | 0.4042 | 2.2643 | 0.0060 | 0.0808 | 0.0002 |
| Brewster | 2275060012 | 0.4363 | 2.3311 | 1.2603 | 0.0268 | 0.1597 | 0.0000 |
| Brewster | 2275050011 | 2.5184 | 0.1136 | 148.9440 | 0.1024 | 0.1474 | 0.0859 |
| Brewster | 2275050012 | 4.9102 | 3.6495 | 16.1488 | 0.0542 | 0.6067 | 0.0000 |
| Brewster | 2275001000 | 0.0184 | 0.0124 | 0.1066 | 0.0003 | 0.0027 | 0.0000 |
| Briscoe | 2275050011 | 0.0008 | 0.0000 | 0.0388 | 0.0000 | 0.0000 | 0.0000 |
| Briscoe | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Brooks | 2275020000 | 0.4581 | 0.5253 | 1.8228 | 0.0135 | 0.0813 | 0.0000 |
| Brooks | 2275060012 | 0.8506 | 5.1432 | 3.8559 | 0.0647 | 0.3914 | 0.0000 |
| Brooks | 2275050011 | 0.1812 | 0.0040 | 8.6333 | 0.0053 | 0.0080 | 0.0048 |
| Brooks | 2275050012 | 4.0270 | 6.1662 | 12.0765 | 0.1247 | 0.6405 | 0.0000 |
| Brooks | 2275001000 | 0.1657 | 0.2923 | 1.0353 | 0.0013 | 0.0639 | 0.0000 |
| Brown | 2275020000 | 0.5332 | 0.1579 | 2.7464 | 0.0052 | 0.0386 | 0.0005 |
| Brown | 2275060012 | 0.1424 | 1.3867 | 0.7074 | 0.0154 | 0.0949 | 0.0000 |
| Brown | 2275050011 | 0.8176 | 0.0233 | 39.8016 | 0.0207 | 0.0393 | 0.0222 |
| Brown | 2275050012 | 5.1072 | 1.8129 | 15.4577 | 0.0570 | 0.3509 | 0.0000 |
| Brown | 2275001000 | 0.3170 | 0.1083 | 1.5895 | 0.0035 | 0.0302 | 0.0000 |
| Burleson | 2275020000 | 0.0151 | 0.1302 | 0.2180 | 0.0000 | 0.0303 | 0.0000 |
| Burleson | 2275050011 | 0.7013 | 0.0440 | 45.0401 | 0.0230 | 0.0547 | 0.0266 |
| Burleson | 2275050012 | 0.0473 | 0.2648 | 0.3854 | 0.0002 | 0.0523 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-----------|------------|---------|----------|----------|----------------|---------|--------|
| Burnet | 2275020000 | 0.8876 | 1.3673 | 6.4991 | 0.0178 | 0.1475 | 0.0017 |
| Burnet | 2275060012 | 0.5856 | 4.9096 | 2.0554 | 0.0567 | 0.3081 | 0.0000 |
| Burnet | 2275050011 | 3.7697 | 0.1054 | 220.6154 | 0.1272 | 0.2104 | 0.1184 |
| Burnet | 2275050012 | 12.4274 | 11.3424 | 39.3657 | 0.2036 | 1.2325 | 0.0000 |
| Burnet | 2275001000 | 0.1562 | 0.0594 | 1.5679 | 0.0014 | 0.0155 | 0.0004 |
| Caldwell | 2275020000 | 3.4745 | 4.5667 | 73.3858 | 0.0450 | 0.8612 | 0.0347 |
| Caldwell | 2275060012 | 1.0352 | 1.0073 | 2.1061 | 0.0168 | 0.1020 | 0.0000 |
| Caldwell | 2275050011 | 4.8928 | 0.3666 | 258.5828 | 0.1316 | 0.2922 | 0.1546 |
| Caldwell | 2275050012 | 30.7121 | 9.5421 | 71.0087 | 0.3225 | 1.8114 | 0.0000 |
| Caldwell | 2275001000 | 2.6850 | 0.3927 | 9.0980 | 0.0251 | 0.1271 | 0.0008 |
| Caldwell | 2275070000 | 0.0884 | 1.0730 | 4.9718 | 0.1664 | 0.2879 | 0.0000 |
| Caldwell | 2265008005 | 0.5008 | 1.1791 | 18.7196 | 0.0000 | 0.0000 | 0.0000 |
| Caldwell | 2270008005 | 0.0866 | 0.4865 | 0.0899 | 0.0024 | 0.0000 | 0.0000 |
| Calhoun | 2275020000 | 0.3404 | 0.0335 | 0.6800 | 0.0025 | 0.0097 | 0.0001 |
| Calhoun | 2275060012 | 0.1421 | 0.5372 | 0.3388 | 0.0067 | 0.0351 | 0.0000 |
| Calhoun | 2275050011 | 1.0124 | 0.0287 | 61.1233 | 0.0419 | 0.0582 | 0.0346 |
| Calhoun | 2275050012 | 5.0891 | 1.1987 | 12.5232 | 0.0455 | 0.2711 | 0.0000 |
| Calhoun | 2275001000 | 0.5741 | 0.4123 | 1.8902 | 0.0063 | 0.0856 | 0.0000 |
| Callahan | 2275050011 | 0.1450 | 0.0055 | 7.9316 | 0.0052 | 0.0074 | 0.0046 |
| Callahan | 2275050012 | 0.0385 | 0.0020 | 0.0866 | 0.0003 | 0.0009 | 0.0000 |
| Cameron | 2275020000 | 37.8067 | 177.2799 | 155.5344 | 1.6852 | 17.9126 | 0.0026 |
| Cameron | 2275060012 | 1.0092 | 10.6417 | 7.7822 | 0.1052 | 1.1272 | 0.0000 |
| Cameron | 2275050011 | 5.3685 | 0.3998 | 151.9895 | 0.0959 | 0.2209 | 0.0868 |
| Cameron | 2275050012 | 21.7994 | 16.2342 | 61.7470 | 0.3177 | 2.3356 | 0.0000 |
| Cameron | 2275001000 | 3.3201 | 4.0981 | 15.3300 | 0.0651 | 0.7695 | 0.0001 |
| Cameron | 2275070000 | 1.1506 | 6.2143 | 10.3534 | 0.9353 | 1.1032 | 0.0000 |
| Cameron | 2265008005 | 1.7003 | 3.5542 | 60.0820 | 0.0000 | 0.0000 | 0.0000 |
| Cameron | 2270008005 | 0.4378 | 2.9823 | 0.8665 | 0.0920 | 0.0000 | 0.0000 |
| Camp | 2275050011 | 0.0380 | 0.0014 | 2.0790 | 0.0014 | 0.0019 | 0.0012 |
| Camp | 2275050012 | 0.0111 | 0.0398 | 0.0367 | 0.0001 | 0.0052 | 0.0000 |
| Carson | 2275020000 | 0.3089 | 0.0840 | 1.7802 | 0.0030 | 0.0269 | 0.0000 |
| Carson | 2275050011 | 0.5511 | 0.0175 | 28.9953 | 0.0179 | 0.0269 | 0.0166 |
| Carson | 2275050012 | 0.6067 | 0.2059 | 1.6244 | 0.0049 | 0.0436 | 0.0000 |
| Cass | 2275020000 | 1.1075 | 0.5921 | 5.9387 | 0.0130 | 0.1171 | 0.0000 |
| Cass | 2275050011 | 2.2382 | 0.0608 | 133.5541 | 0.0640 | 0.1224 | 0.0752 |
| Cass | 2275050012 | 3.6761 | 1.9021 | 5.0526 | 0.0317 | 0.2749 | 0.0000 |
| Castro | 2275020000 | 0.1809 | 0.0355 | 0.7860 | 0.0018 | 0.0116 | 0.0000 |
| Castro | 2275050011 | 0.3759 | 0.0137 | 18.9759 | 0.0102 | 0.0191 | 0.0116 |
| Castro | 2275050012 | 0.8094 | 0.2845 | 1.9487 | 0.0083 | 0.0540 | 0.0000 |
| Castro | 2275001000 | 0.0174 | 0.3005 | 0.1030 | 0.0034 | 0.0188 | 0.0000 |
| Chambers | 2275020000 | 1.8694 | 0.4949 | 10.6819 | 0.0179 | 0.1598 | 0.0000 |
| Chambers | 2275050011 | 1.8214 | 0.0724 | 117.2891 | 0.0789 | 0.1177 | 0.0689 |
| Chambers | 2275050012 | 1.4881 | 0.3008 | 2.9548 | 0.0125 | 0.0645 | 0.0000 |
| Cherokee | 2275020000 | 3.2050 | 0.3869 | 6.9528 | 0.0244 | 0.0999 | 0.0009 |
| Cherokee | 2275060012 | 0.0232 | 0.0801 | 0.1524 | 0.0006 | 0.0090 | 0.0000 |
| Cherokee | 2275050011 | 1.8175 | 0.0682 | 92.1848 | 0.0465 | 0.0947 | 0.0525 |
| Cherokee | 2275050012 | 7.7450 | 1.9601 | 20.9505 | 0.0637 | 0.4957 | 0.0000 |
| Cherokee | 2275001000 | 0.2965 | 0.0413 | 0.8056 | 0.0022 | 0.0128 | 0.0000 |
| Childress | 2275020000 | 0.4181 | 0.0783 | 0.7529 | 0.0030 | 0.0176 | 0.0000 |
| Childress | 2275060012 | 0.0272 | 1.3843 | 0.2547 | 0.0155 | 0.0790 | 0.0000 |
| Childress | 2275050011 | 0.2089 | 0.0083 | 11.0135 | 0.0066 | 0.0110 | 0.0059 |
| Childress | 2275050012 | 1.3507 | 0.8279 | 4.6724 | 0.0128 | 0.1623 | 0.0000 |
| Childress | 2275001000 | 0.0655 | 0.0075 | 0.2486 | 0.0006 | 0.0028 | 0.0000 |
| Clay | 2275050011 | 1.1229 | 0.0428 | 61.4131 | 0.0399 | 0.0574 | 0.0357 |
| Clay | 2275050012 | 0.2978 | 0.0156 | 0.6704 | 0.0019 | 0.0068 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|---------------|------------|---------|----------|----------|----------------|---------|--------|
| Cochran | 2275020000 | 0.0711 | 0.0139 | 0.3088 | 0.0007 | 0.0046 | 0.0000 |
| Cochran | 2275050011 | 0.1147 | 0.0042 | 5.8981 | 0.0030 | 0.0060 | 0.0036 |
| Cochran | 2275050012 | 0.3140 | 0.1116 | 0.7566 | 0.0032 | 0.0211 | 0.0000 |
| Cochran | 2275001000 | 0.0068 | 0.1181 | 0.0405 | 0.0013 | 0.0074 | 0.0000 |
| Coleman | 2275020000 | 0.2656 | 0.0436 | 1.1468 | 0.0026 | 0.0131 | 0.0003 |
| Coleman | 2275050011 | 0.4437 | 0.0146 | 22.6596 | 0.0119 | 0.0236 | 0.0139 |
| Coleman | 2275050012 | 4.8966 | 0.9438 | 14.5831 | 0.0499 | 0.2805 | 0.0000 |
| Collin | 2275020000 | 14.0152 | 20.8988 | 81.6670 | 0.3194 | 2.0710 | 0.0290 |
| Collin | 2275060012 | 6.0454 | 78.2036 | 21.2275 | 0.9428 | 4.6300 | 0.0000 |
| Collin | 2275050011 | 8.7691 | 0.7923 | 503.0025 | 0.2744 | 0.4451 | 0.3074 |
| Collin | 2275050012 | 44.8768 | 117.5983 | 140.5640 | 1.6899 | 10.1679 | 0.0000 |
| Collin | 2275001000 | 0.3455 | 0.1256 | 6.0314 | 0.0037 | 0.0247 | 0.0024 |
| Collin | 2275070000 | 0.5271 | 7.1760 | 23.2261 | 1.0648 | 1.5045 | 0.0000 |
| Collin | 2265008005 | 0.8919 | 2.2115 | 34.6148 | 0.0000 | 0.0000 | 0.0000 |
| Collin | 2270008005 | 0.1810 | 1.0531 | 0.2011 | 0.0195 | 0.0000 | 0.0000 |
| Collingsworth | 2275020000 | 0.2820 | 0.0933 | 1.5040 | 0.0025 | 0.0253 | 0.0000 |
| Collingsworth | 2275050011 | 0.2267 | 0.0090 | 11.1473 | 0.0067 | 0.0109 | 0.0067 |
| Collingsworth | 2275050012 | 1.0316 | 0.5558 | 2.3968 | 0.0094 | 0.1040 | 0.0000 |
| Collingsworth | 2275001000 | 0.0282 | 0.9806 | 0.2475 | 0.0111 | 0.0559 | 0.0000 |
| Colorado | 2275020000 | 0.5251 | 0.2514 | 5.2070 | 0.0088 | 0.0658 | 0.0013 |
| Colorado | 2275050011 | 1.2410 | 0.0525 | 70.4592 | 0.0328 | 0.0765 | 0.0403 |
| Colorado | 2275050012 | 3.4293 | 1.5385 | 7.6468 | 0.0337 | 0.2566 | 0.0000 |
| Colorado | 2275001000 | 0.3510 | 1.6885 | 1.6779 | 0.0188 | 0.1605 | 0.0000 |
| Comal | 2275020000 | 0.0017 | 0.0003 | 0.1361 | 0.0000 | 0.0001 | 0.0001 |
| Comal | 2275050011 | 1.9197 | 0.1067 | 112.9337 | 0.0669 | 0.0991 | 0.0678 |
| Comal | 2275050012 | 0.2952 | 0.1474 | 0.7304 | 0.0026 | 0.0235 | 0.0000 |
| Comanche | 2275020000 | 1.5701 | 0.5846 | 9.0222 | 0.0217 | 0.1652 | 0.0000 |
| Comanche | 2275050011 | 0.5742 | 0.0101 | 30.5938 | 0.0153 | 0.0293 | 0.0168 |
| Comanche | 2275050012 | 3.8768 | 1.1445 | 8.1576 | 0.0346 | 0.2157 | 0.0000 |
| Comanche | 2275001000 | 0.1165 | 1.4732 | 0.6827 | 0.0172 | 0.0936 | 0.0000 |
| Concho | 2275050011 | 0.0005 | 0.0000 | 0.0191 | 0.0000 | 0.0000 | 0.0000 |
| Cooke | 2275020000 | 0.3661 | 0.4485 | 1.6072 | 0.0062 | 0.0445 | 0.0005 |
| Cooke | 2275060012 | 0.1413 | 2.1690 | 0.6302 | 0.0251 | 0.1298 | 0.0000 |
| Cooke | 2275050011 | 0.9889 | 0.0360 | 54.0882 | 0.0346 | 0.0525 | 0.0311 |
| Cooke | 2275050012 | 3.2215 | 1.9226 | 8.2539 | 0.0435 | 0.2532 | 0.0000 |
| Cooke | 2275001000 | 0.1226 | 0.0338 | 1.7507 | 0.0009 | 0.0083 | 0.0009 |
| Coryell | 2275020000 | 11.3728 | 3.8686 | 79.1661 | 0.1434 | 1.1472 | 0.0000 |
| Coryell | 2275050011 | 0.1476 | 0.0164 | 8.0479 | 0.0048 | 0.0105 | 0.0065 |
| Coryell | 2275050012 | 0.2231 | 0.0812 | 0.5417 | 0.0019 | 0.0190 | 0.0000 |
| Coryell | 2275001000 | 0.0130 | 0.8677 | 0.1420 | 0.0097 | 0.0491 | 0.0000 |
| Cottle | 2275020000 | 0.1106 | 0.0366 | 0.5898 | 0.0010 | 0.0099 | 0.0000 |
| Cottle | 2275050011 | 0.1239 | 0.0048 | 5.9006 | 0.0036 | 0.0057 | 0.0035 |
| Cottle | 2275050012 | 0.4063 | 0.2180 | 0.9439 | 0.0037 | 0.0408 | 0.0000 |
| Cottle | 2275001000 | 0.0111 | 0.3846 | 0.0971 | 0.0044 | 0.0219 | 0.0000 |
| Crane | 2275020000 | 0.0866 | 0.0348 | 0.5082 | 0.0013 | 0.0096 | 0.0000 |
| Crane | 2275050011 | 0.0517 | 0.0011 | 2.6736 | 0.0013 | 0.0025 | 0.0015 |
| Crane | 2275050012 | 0.6478 | 0.2449 | 1.6274 | 0.0058 | 0.0476 | 0.0000 |
| Crane | 2275001000 | 0.0051 | 0.2000 | 0.0349 | 0.0023 | 0.0113 | 0.0000 |
| Crockett | 2275020000 | 0.1043 | 0.0437 | 0.5564 | 0.0014 | 0.0111 | 0.0000 |
| Crockett | 2275050011 | 0.1327 | 0.0061 | 7.7972 | 0.0049 | 0.0083 | 0.0047 |
| Crockett | 2275050012 | 3.1638 | 0.5113 | 7.2236 | 0.0301 | 0.1114 | 0.0000 |
| Crockett | 2275001000 | 0.0179 | 0.6070 | 0.1179 | 0.0068 | 0.0348 | 0.0000 |
| Crosby | 2275020000 | 0.0808 | 0.0158 | 0.3509 | 0.0008 | 0.0052 | 0.0000 |
| Crosby | 2275050011 | 1.4340 | 0.0495 | 60.2426 | 0.0370 | 0.0572 | 0.0354 |
| Crosby | 2275050012 | 0.3568 | 0.1268 | 0.8598 | 0.0037 | 0.0240 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|------------|------------|----------|----------|-----------|----------------|---------|--------|
| Crosby | 2275001000 | 0.0078 | 0.1342 | 0.0460 | 0.0015 | 0.0084 | 0.0000 |
| Culberson | 2275020000 | 0.4001 | 0.3249 | 2.1053 | 0.0137 | 0.0666 | 0.0000 |
| Culberson | 2275050011 | 0.1878 | 0.0048 | 9.4387 | 0.0054 | 0.0089 | 0.0053 |
| Culberson | 2275050012 | 1.8172 | 1.3027 | 4.4949 | 0.0219 | 0.1770 | 0.0000 |
| Culberson | 2275001000 | 0.0604 | 1.4284 | 0.4354 | 0.0159 | 0.0868 | 0.0000 |
| Dallam | 2275050011 | 0.5377 | 0.0205 | 29.4005 | 0.0191 | 0.0275 | 0.0171 |
| Dallam | 2275050012 | 0.1425 | 0.0074 | 0.3208 | 0.0009 | 0.0033 | 0.0000 |
| Dallas | 2275020000 | 92.0462 | 367.9688 | 501.0962 | 2.8975 | 35.9772 | 0.0691 |
| Dallas | 2275060012 | 14.5556 | 68.7164 | 50.6894 | 0.9288 | 5.3586 | 0.0000 |
| Dallas | 2275050011 | 22.0092 | 1.2781 | 1067.1720 | 0.5300 | 1.0836 | 0.6205 |
| Dallas | 2275050012 | 174.1110 | 230.2115 | 520.8540 | 3.3525 | 26.4655 | 0.0000 |
| Dallas | 2275001000 | 5.1075 | 15.3948 | 28.5137 | 0.1288 | 1.5863 | 0.0048 |
| Dallas | 2275070000 | 2.2085 | 26.5854 | 56.4057 | 3.4389 | 4.9530 | 0.0000 |
| Dallas | 2265008005 | 6.7448 | 14.1935 | 239.2275 | 0.0000 | 0.0000 | 0.0000 |
| Dallas | 2270008005 | 1.4035 | 9.3255 | 2.5108 | 0.0727 | 0.0000 | 0.0000 |
| Dawson | 2275020000 | 0.4673 | 0.1380 | 2.6962 | 0.0051 | 0.0428 | 0.0000 |
| Dawson | 2275050011 | 0.2754 | 0.0080 | 16.5933 | 0.0109 | 0.0163 | 0.0092 |
| Dawson | 2275050012 | 4.8917 | 2.4026 | 13.6349 | 0.0550 | 0.5423 | 0.0000 |
| Dawson | 2275001000 | 0.0023 | 0.0062 | 0.0296 | 0.0000 | 0.0016 | 0.0000 |
| De Witt | 2275020000 | 0.0140 | 0.0054 | 0.0787 | 0.0002 | 0.0014 | 0.0000 |
| De Witt | 2275050011 | 0.0066 | 0.0003 | 0.3522 | 0.0001 | 0.0003 | 0.0002 |
| De Witt | 2275050012 | 0.1145 | 0.0860 | 0.2486 | 0.0011 | 0.0124 | 0.0000 |
| De Witt | 2275001000 | 0.0006 | 0.0469 | 0.0069 | 0.0005 | 0.0026 | 0.0000 |
| Deaf Smith | 2275020000 | 0.2572 | 0.2752 | 1.2435 | 0.0029 | 0.0512 | 0.0000 |
| Deaf Smith | 2275060012 | 0.0083 | 0.6051 | 0.0886 | 0.0068 | 0.0338 | 0.0000 |
| Deaf Smith | 2275050011 | 0.4979 | 0.0076 | 25.4141 | 0.0135 | 0.0240 | 0.0141 |
| Deaf Smith | 2275050012 | 2.1923 | 2.7829 | 7.7724 | 0.0382 | 0.3492 | 0.0000 |
| Delta | 2275050011 | 0.0005 | 0.0000 | 0.0191 | 0.0000 | 0.0000 | 0.0000 |
| Denton | 2275020000 | 18.6038 | 10.9174 | 123.2453 | 0.2086 | 1.9820 | 0.0434 |
| Denton | 2275060012 | 4.7186 | 9.2486 | 9.3593 | 0.1356 | 0.6690 | 0.0000 |
| Denton | 2275050011 | 36.7266 | 1.1893 | 1959.4648 | 1.0589 | 1.9984 | 1.1117 |
| Denton | 2275050012 | 49.2422 | 37.5739 | 137.0602 | 0.6245 | 5.2541 | 0.0000 |
| Denton | 2275001000 | 0.8804 | 0.3787 | 11.7586 | 0.0070 | 0.1049 | 0.0053 |
| Denton | 2275070000 | 0.1530 | 3.4687 | 13.9924 | 0.4293 | 0.7075 | 0.0000 |
| Denton | 2265008005 | 1.0427 | 2.6004 | 40.8441 | 0.0000 | 0.0000 | 0.0000 |
| Denton | 2270008005 | 0.2810 | 1.4443 | 0.3174 | 0.0337 | 0.0000 | 0.0000 |
| Dickens | 2275050011 | 0.0756 | 0.0027 | 3.5524 | 0.0023 | 0.0033 | 0.0021 |
| Dickens | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Dimmit | 2275020000 | 0.3320 | 0.1816 | 1.2285 | 0.0040 | 0.0316 | 0.0000 |
| Dimmit | 2275060012 | 0.0155 | 0.1561 | 0.1086 | 0.0017 | 0.0115 | 0.0000 |
| Dimmit | 2275050011 | 0.1607 | 0.0053 | 7.2794 | 0.0043 | 0.0072 | 0.0043 |
| Dimmit | 2275050012 | 1.0336 | 0.5636 | 4.2288 | 0.0116 | 0.1096 | 0.0000 |
| Dimmit | 2275001000 | 0.1231 | 0.0104 | 0.3746 | 0.0012 | 0.0032 | 0.0000 |
| Donley | 2275020000 | 0.1659 | 0.0549 | 0.8847 | 0.0015 | 0.0149 | 0.0000 |
| Donley | 2275050011 | 0.0893 | 0.0038 | 4.7463 | 0.0028 | 0.0047 | 0.0029 |
| Donley | 2275050012 | 0.6068 | 0.3269 | 1.4099 | 0.0055 | 0.0612 | 0.0000 |
| Donley | 2275001000 | 0.0166 | 0.5769 | 0.1456 | 0.0066 | 0.0329 | 0.0000 |
| Duval | 2275020000 | 0.0072 | 0.0032 | 0.0349 | 0.0001 | 0.0007 | 0.0000 |
| Duval | 2275050011 | 0.2044 | 0.0070 | 8.9654 | 0.0056 | 0.0084 | 0.0052 |
| Duval | 2275050012 | 0.0722 | 0.0246 | 0.1654 | 0.0006 | 0.0048 | 0.0000 |
| Duval | 2275001000 | 0.0020 | 0.0003 | 0.0069 | 0.0000 | 0.0001 | 0.0000 |
| Eastland | 2275020000 | 3.5904 | 0.5399 | 10.6095 | 0.0360 | 0.1587 | 0.0008 |
| Eastland | 2275050011 | 1.2045 | 0.0330 | 58.5326 | 0.0276 | 0.0561 | 0.0326 |
| Eastland | 2275050012 | 7.3576 | 1.2646 | 17.4038 | 0.0642 | 0.3237 | 0.0000 |
| Eastland | 2275001000 | 0.0011 | 0.0098 | 0.0164 | 0.0000 | 0.0023 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Ector | 2275020000 | 10.7128 | 2.9577 | 26.5386 | 0.0872 | 0.7048 | 0.0007 |
| Ector | 2275060012 | 0.4687 | 5.9857 | 1.7068 | 0.0690 | 0.3528 | 0.0000 |
| Ector | 2275050011 | 2.5750 | 0.1413 | 137.1937 | 0.0758 | 0.1529 | 0.0755 |
| Ector | 2275050012 | 55.5014 | 38.8002 | 130.7449 | 0.7225 | 4.8303 | 0.0000 |
| Ector | 2275001000 | 0.0781 | 0.0120 | 1.0242 | 0.0009 | 0.0043 | 0.0004 |
| Edwards | 2275020000 | 0.0233 | 0.0098 | 0.1242 | 0.0003 | 0.0025 | 0.0000 |
| Edwards | 2275050011 | 0.2024 | 0.0073 | 8.8364 | 0.0055 | 0.0085 | 0.0052 |
| Edwards | 2275050012 | 0.7059 | 0.1141 | 1.6118 | 0.0067 | 0.0249 | 0.0000 |
| Edwards | 2275001000 | 0.0040 | 0.1354 | 0.0263 | 0.0015 | 0.0078 | 0.0000 |
| El Paso | 2275020000 | 41.6733 | 270.4860 | 206.0649 | 2.0986 | 22.5620 | 0.0061 |
| El Paso | 2275060012 | 1.6561 | 13.8702 | 11.4915 | 0.0996 | 1.5223 | 0.0000 |
| El Paso | 2275050011 | 0.6646 | 0.0256 | 35.4894 | 0.0162 | 0.0328 | 0.0177 |
| El Paso | 2275050012 | 8.2819 | 17.3567 | 29.5063 | 0.2103 | 1.8116 | 0.0000 |
| El Paso | 2275001000 | 4.1512 | 4.4366 | 23.8818 | 0.0693 | 0.6002 | 0.0003 |
| El Paso | 2275070000 | 1.4836 | 8.8705 | 12.7953 | 1.2061 | 1.5031 | 0.0000 |
| El Paso | 2265008005 | 1.9707 | 3.8866 | 67.5999 | 0.0000 | 0.0000 | 0.0000 |
| El Paso | 2270008005 | 0.5519 | 3.8229 | 1.1418 | 0.0857 | 0.0000 | 0.0000 |
| Ellis | 2275020000 | 5.4897 | 2.4936 | 16.2816 | 0.0587 | 0.4284 | 0.0006 |
| Ellis | 2275060012 | 2.3107 | 11.9593 | 6.4795 | 0.1443 | 0.7833 | 0.0000 |
| Ellis | 2275050011 | 5.7448 | 0.6823 | 312.4270 | 0.1876 | 0.4241 | 0.1818 |
| Ellis | 2275050012 | 21.4740 | 12.4602 | 59.2155 | 0.2473 | 1.9306 | 0.0000 |
| Ellis | 2275001000 | 0.3580 | 0.4998 | 2.6639 | 0.0082 | 0.0590 | 0.0000 |
| Erath | 2275020000 | 1.5804 | 0.2346 | 6.4084 | 0.0141 | 0.0643 | 0.0021 |
| Erath | 2275060012 | 0.1358 | 0.3850 | 0.3423 | 0.0050 | 0.0270 | 0.0000 |
| Erath | 2275050011 | 1.6798 | 0.2226 | 56.4650 | 0.0276 | 0.0867 | 0.0330 |
| Erath | 2275050012 | 3.5840 | 0.8938 | 11.5165 | 0.0309 | 0.2129 | 0.0000 |
| Erath | 2275001000 | 0.0466 | 0.0108 | 0.4582 | 0.0004 | 0.0030 | 0.0001 |
| Falls | 2275020000 | 0.0415 | 0.0092 | 0.2091 | 0.0004 | 0.0030 | 0.0000 |
| Falls | 2275050011 | 0.0733 | 0.0057 | 3.9958 | 0.0025 | 0.0045 | 0.0028 |
| Falls | 2275050012 | 0.0689 | 0.0223 | 0.1656 | 0.0006 | 0.0053 | 0.0000 |
| Falls | 2275001000 | 0.0035 | 0.2336 | 0.0382 | 0.0026 | 0.0132 | 0.0000 |
| Fannin | 2275020000 | 0.6088 | 0.1874 | 3.7167 | 0.0104 | 0.0601 | 0.0000 |
| Fannin | 2275050011 | 1.1688 | 0.0501 | 66.1475 | 0.0286 | 0.0744 | 0.0384 |
| Fannin | 2275050012 | 8.7701 | 2.0729 | 18.6708 | 0.0808 | 0.4401 | 0.0000 |
| Fannin | 2275001000 | 0.0046 | 0.3325 | 0.0487 | 0.0037 | 0.0186 | 0.0000 |
| Fayette | 2275020000 | 0.3444 | 0.1927 | 1.2720 | 0.0034 | 0.0379 | 0.0001 |
| Fayette | 2275060012 | 0.6744 | 2.3751 | 1.7595 | 0.0295 | 0.1634 | 0.0000 |
| Fayette | 2275050011 | 0.7060 | 0.0393 | 30.0790 | 0.0135 | 0.0310 | 0.0169 |
| Fayette | 2275050012 | 8.0418 | 3.7029 | 18.5518 | 0.0963 | 0.4888 | 0.0000 |
| Fayette | 2275001000 | 0.0397 | 0.0141 | 0.1046 | 0.0004 | 0.0032 | 0.0000 |
| Fisher | 2275020000 | 0.3831 | 0.1089 | 1.9112 | 0.0055 | 0.0323 | 0.0000 |
| Fisher | 2275050011 | 0.2331 | 0.0042 | 11.3392 | 0.0056 | 0.0099 | 0.0062 |
| Fisher | 2275050012 | 1.6874 | 0.6299 | 3.6972 | 0.0169 | 0.1240 | 0.0000 |
| Fisher | 2275001000 | 0.0150 | 1.0912 | 0.1598 | 0.0123 | 0.0610 | 0.0000 |
| Floyd | 2275020000 | 0.4070 | 0.0798 | 1.7684 | 0.0040 | 0.0262 | 0.0000 |
| Floyd | 2275050011 | 0.7539 | 0.0276 | 39.0811 | 0.0208 | 0.0395 | 0.0239 |
| Floyd | 2275050012 | 1.8242 | 0.6403 | 4.3913 | 0.0188 | 0.1216 | 0.0000 |
| Floyd | 2275001000 | 0.0391 | 0.6762 | 0.2318 | 0.0075 | 0.0422 | 0.0000 |
| Foard | 2275050011 | 0.0901 | 0.0034 | 4.9264 | 0.0032 | 0.0046 | 0.0029 |
| Foard | 2275050012 | 0.0239 | 0.0012 | 0.0538 | 0.0002 | 0.0005 | 0.0000 |
| Fort Bend | 2275020000 | 13.8730 | 18.4837 | 82.0453 | 0.3411 | 1.8985 | 0.0243 |
| Fort Bend | 2275060012 | 6.1001 | 28.3232 | 20.1452 | 0.4010 | 2.1722 | 0.0000 |
| Fort Bend | 2275050011 | 5.8483 | 0.1959 | 292.1332 | 0.1467 | 0.2879 | 0.1661 |
| Fort Bend | 2275050012 | 49.0821 | 51.4412 | 134.8891 | 0.9626 | 6.0257 | 0.0000 |
| Fort Bend | 2275001000 | 0.6354 | 0.2017 | 2.1567 | 0.0065 | 0.0550 | 0.0001 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-----------|------------|---------|---------|----------|----------------|--------|--------|
| Fort Bend | 2275070000 | 0.2027 | 3.2511 | 13.4725 | 0.4995 | 0.7022 | 0.0000 |
| Fort Bend | 2265008005 | 0.9011 | 2.2521 | 35.0539 | 0.0000 | 0.0000 | 0.0000 |
| Fort Bend | 2270008005 | 0.1279 | 0.8346 | 0.1480 | 0.0191 | 0.0000 | 0.0000 |
| Franklin | 2275050011 | 1.0830 | 0.0444 | 57.1760 | 0.0280 | 0.0625 | 0.0353 |
| Franklin | 2275050012 | 0.2418 | 0.1727 | 0.5836 | 0.0023 | 0.0303 | 0.0000 |
| Freestone | 2275020000 | 0.0051 | 0.0440 | 0.0737 | 0.0000 | 0.0102 | 0.0000 |
| Freestone | 2275050011 | 0.2389 | 0.0148 | 14.8905 | 0.0075 | 0.0182 | 0.0088 |
| Freestone | 2275050012 | 0.0084 | 0.1035 | 0.1174 | 0.0000 | 0.0193 | 0.0000 |
| Frio | 2275020000 | 0.1147 | 0.0816 | 0.9253 | 0.0052 | 0.0194 | 0.0002 |
| Frio | 2275060012 | 0.8828 | 4.2057 | 1.9018 | 0.0528 | 0.2547 | 0.0000 |
| Frio | 2275050011 | 0.2859 | 0.0049 | 19.2582 | 0.0136 | 0.0198 | 0.0112 |
| Frio | 2275050012 | 1.7567 | 2.3229 | 5.6999 | 0.0478 | 0.2388 | 0.0000 |
| Frio | 2275001000 | 0.0049 | 0.1043 | 0.0464 | 0.0010 | 0.0081 | 0.0000 |
| Gaines | 2275020000 | 0.0894 | 0.1278 | 0.6019 | 0.0008 | 0.0289 | 0.0000 |
| Gaines | 2275050011 | 1.2041 | 0.0411 | 61.0155 | 0.0393 | 0.0581 | 0.0350 |
| Gaines | 2275050012 | 6.3866 | 2.9050 | 19.0781 | 0.0714 | 0.6708 | 0.0000 |
| Galveston | 2275020000 | 2.8341 | 2.8351 | 13.3067 | 0.0535 | 0.3298 | 0.0029 |
| Galveston | 2275060012 | 0.5299 | 3.7603 | 2.0744 | 0.0482 | 0.2794 | 0.0000 |
| Galveston | 2275050011 | 3.5291 | 0.1690 | 179.7286 | 0.0952 | 0.1746 | 0.1015 |
| Galveston | 2275050012 | 12.1560 | 6.5780 | 31.9843 | 0.1803 | 1.0196 | 0.0000 |
| Galveston | 2275001000 | 0.5643 | 0.2895 | 2.7995 | 0.0065 | 0.0766 | 0.0000 |
| Galveston | 2275070000 | 0.0256 | 0.4250 | 1.8464 | 0.0625 | 0.0931 | 0.0000 |
| Galveston | 2265008005 | 0.1727 | 0.4402 | 6.8297 | 0.0000 | 0.0000 | 0.0000 |
| Galveston | 2270008005 | 0.0317 | 0.1882 | 0.0398 | 0.0041 | 0.0000 | 0.0000 |
| Garza | 2275020000 | 0.1938 | 0.0380 | 0.8421 | 0.0019 | 0.0125 | 0.0000 |
| Garza | 2275050011 | 0.4597 | 0.0164 | 22.1158 | 0.0120 | 0.0221 | 0.0134 |
| Garza | 2275050012 | 0.8564 | 0.3043 | 2.0635 | 0.0089 | 0.0576 | 0.0000 |
| Garza | 2275001000 | 0.0186 | 0.3220 | 0.1104 | 0.0036 | 0.0201 | 0.0000 |
| Gillespie | 2275020000 | 1.3083 | 0.6206 | 7.8929 | 0.0142 | 0.1013 | 0.0024 |
| Gillespie | 2275060012 | 1.0246 | 7.8969 | 3.4445 | 0.0919 | 0.4987 | 0.0000 |
| Gillespie | 2275050011 | 1.6462 | 0.1935 | 66.0886 | 0.0420 | 0.0883 | 0.0384 |
| Gillespie | 2275050012 | 5.1402 | 13.4241 | 16.3932 | 0.1887 | 1.0026 | 0.0000 |
| Gillespie | 2275001000 | 0.1128 | 0.0361 | 0.7284 | 0.0011 | 0.0108 | 0.0000 |
| Glasscock | 2275050011 | 0.1246 | 0.0044 | 5.5706 | 0.0035 | 0.0052 | 0.0032 |
| Glasscock | 2275050012 | 0.0088 | 0.0005 | 0.0199 | 0.0001 | 0.0002 | 0.0000 |
| Goliad | 2275020000 | 1.2316 | 3.7846 | 8.2798 | 0.0350 | 0.4218 | 0.0000 |
| Goliad | 2275050011 | 0.0237 | 0.0010 | 1.4393 | 0.0005 | 0.0014 | 0.0007 |
| Goliad | 2275050012 | 10.5851 | 10.6329 | 35.5207 | 0.1135 | 2.2901 | 0.0000 |
| Goliad | 2275001000 | 3.4162 | 1.7511 | 19.6207 | 0.0443 | 0.3678 | 0.0000 |
| Gonzales | 2275020000 | 0.2809 | 0.1070 | 1.5738 | 0.0032 | 0.0279 | 0.0000 |
| Gonzales | 2275050011 | 0.1334 | 0.0055 | 7.1016 | 0.0025 | 0.0067 | 0.0041 |
| Gonzales | 2275050012 | 2.2697 | 0.9347 | 4.6916 | 0.0224 | 0.1493 | 0.0000 |
| Gonzales | 2275001000 | 0.0129 | 0.9375 | 0.1373 | 0.0105 | 0.0524 | 0.0000 |
| Gray | 2275020000 | 1.1838 | 1.6387 | 10.4999 | 0.0129 | 0.3606 | 0.0009 |
| Gray | 2275060012 | 0.2857 | 1.1920 | 0.6594 | 0.0150 | 0.0757 | 0.0000 |
| Gray | 2275050011 | 0.3294 | 0.0047 | 17.9792 | 0.0080 | 0.0189 | 0.0102 |
| Gray | 2275050012 | 7.2250 | 3.3422 | 18.4160 | 0.0756 | 0.4888 | 0.0000 |
| Gray | 2275001000 | 0.0016 | 0.0003 | 0.1221 | 0.0000 | 0.0000 | 0.0000 |
| Grayson | 2275020000 | 3.6107 | 1.9498 | 28.4525 | 0.0429 | 0.3174 | 0.0132 |
| Grayson | 2275060012 | 0.3265 | 1.1954 | 1.2982 | 0.0172 | 0.1046 | 0.0000 |
| Grayson | 2275050011 | 3.2851 | 0.1815 | 188.3646 | 0.0927 | 0.2201 | 0.1136 |
| Grayson | 2275050012 | 13.6249 | 12.1712 | 38.5370 | 0.2188 | 1.6341 | 0.0000 |
| Grayson | 2275001000 | 0.2272 | 1.0554 | 1.9557 | 0.0015 | 0.2208 | 0.0000 |
| Gregg | 2275020000 | 8.4176 | 16.3278 | 40.5591 | 0.1363 | 1.6547 | 0.0116 |
| Gregg | 2275060012 | 0.4922 | 3.8518 | 1.5469 | 0.0469 | 0.2451 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|----------|-----------------|-----------|----------------|-----------------|--------|
| Gregg | 2275050011 | 5.7800 | 3.2321 | 187.1887 | 0.1200 | 0.5485 | 0.1022 |
| Gregg | 2275050012 | 21.2221 | 13.7068 | 49.8339 | 0.3103 | 1.8205 | 0.0000 |
| Gregg | 2275001000 | 6.7501 | 1.4059 | 36.4390 | 0.0651 | 0.4834 | 0.0013 |
| Gregg | 2275070000 | 0.0479 | 0.5624 | 1.7320 | 0.0795 | 0.1275 | 0.0000 |
| Gregg | 2265008005 | 0.3460 | 0.8680 | 13.5674 | 0.0000 | 0.0000 | 0.0000 |
| Gregg | 2270008005 | 0.0956 | 0.8161 | 0.1933 | 0.0296 | 0.0000 | 0.0000 |
| Grimes | 2275020000 | 0.1865 | 0.0289 | 0.6670 | 0.0017 | 0.0080 | 0.0001 |
| Grimes | 2275050011 | 1.0166 | 0.0596 | 62.3911 | 0.0217 | 0.0770 | 0.0380 |
| Grimes | 2275050012 | 4.2696 | 1.1848 | 9.5251 | 0.0383 | 0.2275 | 0.0000 |
| Guadalupe | 2275020000 | 3.5666 | 2.1253 | 33.1394 | 0.0470 | 0.3416 | 0.0147 |
| Guadalupe | 2275060012 | 1.5759 | 6.2863 | 4.5837 | 0.0783 | 0.4323 | 0.0000 |
| Guadalupe | 2275050011 | 6.3513 | 0.3593 | 339.7051 | 0.1631 | 0.3878 | 0.1972 |
| Guadalupe | 2275050012 | 36.3356 | 13.6317 | 94.0427 | 0.4184 | 2.3183 | 0.0000 |
| Guadalupe | 2275001000 | 12.3763 | 2.7306 | 90.3383 | 0.1381 | 1.0644 | 0.0002 |
| Hale | 2275020000 | 0.4119 | 0.0855 | 1.1314 | 0.0037 | 0.0223 | 0.0001 |
| Hale | 2275060012 | 0.0010 | 0.0027 | 0.0128 | 0.0000 | 0.0007 | 0.0000 |
| Hale | 2275050011 | 0.8745 | 0.0411 | 43.2369 | 0.0236 | 0.0456 | 0.0263 |
| Hale | 2275050012 | 1.8115 | 1.2760 | 5.4352 | 0.0262 | 0.1622 | 0.0000 |
| Hale | 2275001000 | 0.0010 | 0.0002 | 0.0874 | 0.0000 | 0.0001 | 0.0000 |
| Hall | 2275020000 | 0.0553 | 0.0183 | 0.2949 | 0.0005 | 0.0050 | 0.0000 |
| Hall | 2275050011 | 0.0298 | 0.0013 | 1.5821 | 0.0009 | 0.0016 | 0.0010 |
| Hall | 2275050012 | 0.2023 | 0.1090 | 0.4700 | 0.0018 | 0.0204 | 0.0000 |
| Hall | 2275001000 | 0.0055 | 0.1923 | 0.0485 | 0.0022 | 0.0110 | 0.0000 |
| Hamilton | 2275020000 | 0.6045 | 0.1347 | 3.0494 | 0.0057 | 0.0435 | 0.0000 |
| Hamilton | 2275050011 | 0.4135 | 0.0580 | 21.9339 | 0.0124 | 0.0321 | 0.0198 |
| Hamilton | 2275050012 | 0.8206 | 0.3157 | 2.0018 | 0.0072 | 0.0733 | 0.0000 |
| Hamilton | 2275001000 | 0.0512 | 3.4061 | 0.5573 | 0.0381 | 0.1928 | 0.0000 |
| Hansford | 2275020000 | 2.5800 | 0.5996 | 12.0601 | 0.0273 | 0.1829 | 0.0000 |
| Hansford | 2275050011 | 1.2582 | 0.0147 | 73.4286 | 0.0438 | 0.0680 | 0.0404 |
| Hansford | 2275050012 | 13.2058 | 4.2129 | 32.6493 | 0.1322 | 0.9459 | 0.0000 |
| Hansford | 2275001000 | 0.0035 | 0.2009 | 0.0397 | 0.0022 | 0.0117 | 0.0000 |
| Hardeman | 2275020000 | 0.4055 | 0.1341 | 2.1626 | 0.0036 | 0.0364 | 0.0000 |
| Hardeman | 2275050011 | 0.2182 | 0.0092 | 11.6021 | 0.0068 | 0.0116 | 0.0071 |
| Hardeman | 2275050012 | 1.4833 | 0.7991 | 3.4464 | 0.0135 | 0.1496 | 0.0000 |
| Hardeman | 2275001000 | 0.0405 | 1.4101 | 0.3559 | 0.0160 | 0.0804 | 0.0000 |
| Hardin | 2275020000 | 0.5252 | 0.1390 | 3.0011 | 0.0050 | 0.0449 | 0.0000 |
| Hardin | 2275050011 | 0.1554 | 0.0057 | 11.3894 | 0.0071 | 0.0120 | 0.0068 |
| Hardin | 2275050012 | 0.3297 | 0.0901 | 0.6303 | 0.0026 | 0.0175 | 0.0000 |
| Harris | 2275020000 | 226.9108 | 1456.4958 | 1657.1146 | 12.9591 | 147.0027 | 0.1204 |
| Harris | 2275060012 | 17.4510 | 35.6386 | 43.2621 | 0.5437 | 3.2751 | 0.0000 |
| Harris | 2275050011 | 26.3938 | 1.3064 | 1359.0627 | 0.6848 | 1.3309 | 0.7977 |
| Harris | 2275050012 | 207.0405 | 155.0165 | 528.8429 | 4.3262 | 19.5453 | 0.0000 |
| Harris | 2275001000 | 21.5291 | 36.2627 | 85.5074 | 0.3760 | 4.1131 | 0.0102 |
| Harris | 2275070000 | 3.5086 | 51.3869 | 69.1342 | 6.4509 | 8.4571 | 0.0000 |
| Harris | 2265008005 | 10.0423 | 21.4376 | 373.2532 | 0.0000 | 0.0000 | 0.0000 |
| Harris | 2270008005 | 2.7364 | 15.0529 | 4.1927 | 0.0857 | 0.0000 | 0.0000 |
| Harrison | 2275020000 | 0.4194 | 0.1062 | 3.3899 | 0.0033 | 0.0227 | 0.0016 |
| Harrison | 2275060012 | 1.9227 | 0.3084 | 3.1887 | 0.0157 | 0.0690 | 0.0000 |
| Harrison | 2275050011 | 0.7070 | 0.0268 | 37.9118 | 0.0202 | 0.0389 | 0.0214 |
| Harrison | 2275050012 | 21.7468 | 4.8394 | 43.1476 | 0.1957 | 0.9900 | 0.0000 |
| Harrison | 2275001000 | 0.0256 | 0.0109 | 0.1565 | 0.0002 | 0.0030 | 0.0000 |
| Hartley | 2275020000 | 0.6900 | 0.2269 | 2.4054 | 0.0061 | 0.0474 | 0.0004 |
| Hartley | 2275060012 | 0.0017 | 0.1266 | 0.0185 | 0.0014 | 0.0071 | 0.0000 |
| Hartley | 2275050011 | 1.0446 | 0.1820 | 25.9060 | 0.0187 | 0.0526 | 0.0140 |
| Hartley | 2275050012 | 2.0820 | 0.8561 | 7.7070 | 0.0208 | 0.1856 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-----------|------------|---------|---------|----------|----------------|--------|--------|
| Hartley | 2275001000 | 0.0014 | 0.0016 | 0.0579 | 0.0000 | 0.0003 | 0.0000 |
| Haskell | 2275020000 | 0.1596 | 0.0454 | 0.7963 | 0.0023 | 0.0135 | 0.0000 |
| Haskell | 2275050011 | 0.0969 | 0.0018 | 4.7167 | 0.0023 | 0.0041 | 0.0026 |
| Haskell | 2275050012 | 0.7031 | 0.2625 | 1.5405 | 0.0071 | 0.0517 | 0.0000 |
| Haskell | 2275001000 | 0.0062 | 0.4547 | 0.0666 | 0.0051 | 0.0254 | 0.0000 |
| Hays | 2275050011 | 0.1889 | 0.0065 | 7.7639 | 0.0049 | 0.0073 | 0.0045 |
| Hays | 2275050012 | 0.0031 | 0.1149 | 0.0413 | 0.0000 | 0.0145 | 0.0000 |
| Hemphill | 2275020000 | 0.1157 | 0.0594 | 0.6903 | 0.0011 | 0.0158 | 0.0000 |
| Hemphill | 2275050011 | 0.3775 | 0.0110 | 22.3676 | 0.0133 | 0.0234 | 0.0131 |
| Hemphill | 2275050012 | 4.6841 | 4.3743 | 14.1375 | 0.0700 | 0.5602 | 0.0000 |
| Henderson | 2275020000 | 0.1263 | 0.0264 | 5.8868 | 0.0006 | 0.0158 | 0.0037 |
| Henderson | 2275060012 | 0.0508 | 3.1892 | 0.5592 | 0.0356 | 0.1821 | 0.0000 |
| Henderson | 2275050011 | 4.3453 | 0.2586 | 255.3792 | 0.1724 | 0.2662 | 0.1513 |
| Henderson | 2275050012 | 6.0869 | 2.7847 | 17.0167 | 0.0721 | 0.3757 | 0.0000 |
| Hidalgo | 2275020000 | 14.0814 | 88.0364 | 68.0689 | 0.9403 | 8.7359 | 0.0015 |
| Hidalgo | 2275060012 | 1.1277 | 6.3970 | 7.4993 | 0.0700 | 0.8650 | 0.0000 |
| Hidalgo | 2275050011 | 3.1092 | 0.1171 | 159.2734 | 0.0883 | 0.1601 | 0.0915 |
| Hidalgo | 2275050012 | 18.2250 | 13.5938 | 51.3162 | 0.2605 | 1.9888 | 0.0000 |
| Hidalgo | 2275001000 | 2.4884 | 3.6858 | 8.5708 | 0.0480 | 0.3800 | 0.0003 |
| Hidalgo | 2275070000 | 0.7241 | 3.6658 | 7.0547 | 0.4974 | 0.6082 | 0.0000 |
| Hidalgo | 2265008005 | 1.0237 | 2.1677 | 36.3914 | 0.0000 | 0.0000 | 0.0000 |
| Hidalgo | 2270008005 | 0.2021 | 1.3989 | 0.3617 | 0.0065 | 0.0000 | 0.0000 |
| Hill | 2275020000 | 0.3178 | 0.2001 | 2.8618 | 0.0047 | 0.0325 | 0.0011 |
| Hill | 2275050011 | 0.9701 | 0.0746 | 54.1852 | 0.0294 | 0.0651 | 0.0306 |
| Hill | 2275050012 | 1.8778 | 0.8433 | 10.9799 | 0.0170 | 0.2032 | 0.0000 |
| Hill | 2275001000 | 0.0447 | 0.0011 | 1.9027 | 0.0000 | 0.0023 | 0.0011 |
| Hockley | 2275020000 | 1.7568 | 0.4618 | 8.8923 | 0.0161 | 0.1413 | 0.0000 |
| Hockley | 2275060012 | 0.0164 | 0.0455 | 0.2163 | 0.0000 | 0.0114 | 0.0000 |
| Hockley | 2275050011 | 0.2587 | 0.0036 | 12.5764 | 0.0053 | 0.0117 | 0.0067 |
| Hockley | 2275050012 | 4.0036 | 1.3300 | 12.0929 | 0.0315 | 0.3257 | 0.0000 |
| Hockley | 2275001000 | 0.0056 | 0.0172 | 0.0688 | 0.0000 | 0.0040 | 0.0000 |
| Hood | 2275020000 | 0.4680 | 0.2010 | 5.8767 | 0.0049 | 0.0425 | 0.0026 |
| Hood | 2275060012 | 0.0405 | 2.9498 | 0.4319 | 0.0332 | 0.1648 | 0.0000 |
| Hood | 2275050011 | 3.7760 | 0.2971 | 189.1651 | 0.1058 | 0.2011 | 0.1043 |
| Hood | 2275050012 | 5.7157 | 1.6476 | 32.9598 | 0.0504 | 0.3963 | 0.0000 |
| Hood | 2275001000 | 0.0124 | 0.0216 | 0.9587 | 0.0000 | 0.0064 | 0.0006 |
| Hopkins | 2275020000 | 1.3703 | 0.8599 | 19.2733 | 0.0132 | 0.1408 | 0.0103 |
| Hopkins | 2275060012 | 0.8669 | 18.3645 | 4.2012 | 0.2081 | 1.0657 | 0.0000 |
| Hopkins | 2275050011 | 1.7046 | 0.1041 | 100.4756 | 0.0435 | 0.1166 | 0.0590 |
| Hopkins | 2275050012 | 14.7362 | 15.4986 | 43.0444 | 0.2858 | 1.6022 | 0.0000 |
| Hopkins | 2275001000 | 0.0971 | 0.0811 | 0.6396 | 0.0008 | 0.0187 | 0.0000 |
| Houston | 2275020000 | 1.0125 | 0.3080 | 5.7672 | 0.0113 | 0.0928 | 0.0000 |
| Houston | 2275050011 | 0.9098 | 0.0213 | 46.2330 | 0.0240 | 0.0421 | 0.0257 |
| Houston | 2275050012 | 1.8940 | 0.9445 | 4.8388 | 0.0190 | 0.1672 | 0.0000 |
| Houston | 2275001000 | 0.0669 | 4.2889 | 0.6971 | 0.0481 | 0.2424 | 0.0000 |
| Howard | 2275020000 | 2.5153 | 1.2146 | 11.4337 | 0.0291 | 0.2432 | 0.0014 |
| Howard | 2275060012 | 0.0620 | 0.8628 | 0.2457 | 0.0100 | 0.0509 | 0.0000 |
| Howard | 2275050011 | 1.2548 | 0.0373 | 58.3577 | 0.0542 | 0.0609 | 0.0305 |
| Howard | 2275050012 | 9.3054 | 6.9945 | 31.1163 | 0.1185 | 1.0034 | 0.0000 |
| Howard | 2275001000 | 2.8034 | 0.3330 | 7.0948 | 0.0209 | 0.1047 | 0.0000 |
| Hudspeth | 2275020000 | 0.0690 | 0.0560 | 0.3630 | 0.0024 | 0.0115 | 0.0000 |
| Hudspeth | 2275050011 | 0.0694 | 0.0021 | 3.1466 | 0.0019 | 0.0030 | 0.0018 |
| Hudspeth | 2275050012 | 0.3148 | 0.2799 | 0.7948 | 0.0038 | 0.0375 | 0.0000 |
| Hudspeth | 2275001000 | 0.0104 | 0.2463 | 0.0751 | 0.0027 | 0.0150 | 0.0000 |
| Hunt | 2275020000 | 1.3937 | 5.7426 | 15.3281 | 0.0474 | 0.4927 | 0.0047 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|------------|------------|---------|---------|----------|----------------|--------|--------|
| Hunt | 2275060012 | 0.8766 | 0.7354 | 2.2966 | 0.0147 | 0.0988 | 0.0000 |
| Hunt | 2275050011 | 3.4232 | 0.1625 | 189.3943 | 0.0882 | 0.2098 | 0.1125 |
| Hunt | 2275050012 | 12.7409 | 6.2937 | 31.9088 | 0.1566 | 0.9917 | 0.0000 |
| Hunt | 2275001000 | 2.3810 | 18.1451 | 13.2139 | 0.1107 | 1.3333 | 0.0000 |
| Hutchinson | 2275020000 | 0.8219 | 0.3904 | 2.1944 | 0.0098 | 0.0502 | 0.0002 |
| Hutchinson | 2275060012 | 0.0015 | 0.0040 | 0.0192 | 0.0000 | 0.0010 | 0.0000 |
| Hutchinson | 2275050011 | 0.2211 | 0.0109 | 10.8171 | 0.0053 | 0.0120 | 0.0059 |
| Hutchinson | 2275050012 | 4.6841 | 1.3425 | 11.5707 | 0.0469 | 0.2677 | 0.0000 |
| Hutchinson | 2275001000 | 0.0076 | 0.0104 | 0.0365 | 0.0008 | 0.0023 | 0.0000 |
| Irion | 2275050011 | 0.0328 | 0.0013 | 1.7932 | 0.0012 | 0.0017 | 0.0010 |
| Irion | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Jack | 2275020000 | 0.1226 | 0.0320 | 0.5315 | 0.0013 | 0.0091 | 0.0000 |
| Jack | 2275050011 | 0.2058 | 0.0103 | 11.9485 | 0.0060 | 0.0125 | 0.0071 |
| Jack | 2275050012 | 0.5741 | 0.1211 | 1.0308 | 0.0045 | 0.0257 | 0.0000 |
| Jack | 2275001000 | 0.0009 | 0.0375 | 0.0102 | 0.0004 | 0.0023 | 0.0000 |
| Jackson | 2275020000 | 0.1205 | 0.0551 | 0.6964 | 0.0015 | 0.0139 | 0.0000 |
| Jackson | 2275050011 | 3.6470 | 0.1333 | 168.1503 | 0.1053 | 0.1592 | 0.0982 |
| Jackson | 2275050012 | 1.7045 | 1.5054 | 5.4380 | 0.0137 | 0.3282 | 0.0000 |
| Jackson | 2275001000 | 0.0601 | 0.7239 | 0.3575 | 0.0084 | 0.0477 | 0.0000 |
| Jasper | 2275020000 | 0.4730 | 0.2142 | 5.5951 | 0.0041 | 0.0416 | 0.0020 |
| Jasper | 2275060012 | 0.6820 | 0.1973 | 1.2763 | 0.0059 | 0.0371 | 0.0000 |
| Jasper | 2275050011 | 0.9622 | 0.0241 | 48.9135 | 0.0200 | 0.0485 | 0.0272 |
| Jasper | 2275050012 | 9.3674 | 6.6717 | 26.1164 | 0.1466 | 0.8087 | 0.0000 |
| Jasper | 2275001000 | 0.3758 | 0.0899 | 1.6766 | 0.0037 | 0.0280 | 0.0000 |
| Jeff Davis | 2275050011 | 1.8442 | 0.0633 | 75.7402 | 0.0475 | 0.0712 | 0.0442 |
| Jefferson | 2275020000 | 2.9314 | 6.6340 | 11.1334 | 0.0567 | 0.6905 | 0.0009 |
| Jefferson | 2275060012 | 1.5968 | 1.9764 | 2.8299 | 0.0350 | 0.1629 | 0.0000 |
| Jefferson | 2275050011 | 1.9371 | 0.0611 | 106.6962 | 0.0649 | 0.1017 | 0.0590 |
| Jefferson | 2275050012 | 13.0799 | 12.7700 | 39.5542 | 0.2284 | 1.6657 | 0.0000 |
| Jefferson | 2275001000 | 0.5051 | 0.1634 | 2.4130 | 0.0045 | 0.0467 | 0.0001 |
| Jefferson | 2275070000 | 0.0216 | 0.3883 | 2.5247 | 0.0604 | 0.0974 | 0.0000 |
| Jefferson | 2265008005 | 0.2289 | 0.5618 | 8.7517 | 0.0000 | 0.0000 | 0.0000 |
| Jefferson | 2270008005 | 0.0149 | 0.1730 | 0.0188 | 0.0028 | 0.0000 | 0.0000 |
| Jim Hogg | 2275020000 | 0.0504 | 0.0645 | 0.2107 | 0.0013 | 0.0075 | 0.0000 |
| Jim Hogg | 2275060012 | 0.0317 | 0.3031 | 0.1474 | 0.0035 | 0.0196 | 0.0000 |
| Jim Hogg | 2275050011 | 0.0387 | 0.0013 | 2.1825 | 0.0014 | 0.0020 | 0.0013 |
| Jim Hogg | 2275050012 | 0.2763 | 0.2802 | 0.9205 | 0.0052 | 0.0316 | 0.0000 |
| Jim Hogg | 2275001000 | 0.0005 | 0.0014 | 0.0212 | 0.0000 | 0.0003 | 0.0000 |
| Jim Wells | 2275020000 | 0.4106 | 0.5055 | 1.1938 | 0.0081 | 0.0447 | 0.0001 |
| Jim Wells | 2275060012 | 0.3722 | 2.4954 | 0.9580 | 0.0300 | 0.1512 | 0.0000 |
| Jim Wells | 2275050011 | 0.2694 | 0.0182 | 14.9158 | 0.0090 | 0.0159 | 0.0081 |
| Jim Wells | 2275050012 | 4.9354 | 4.0546 | 13.8355 | 0.0531 | 0.8518 | 0.0000 |
| Jim Wells | 2275001000 | 5.2866 | 7.3024 | 19.5564 | 0.0673 | 0.8847 | 0.0001 |
| Johnson | 2275020000 | 4.7698 | 1.8810 | 16.3799 | 0.0488 | 0.3541 | 0.0020 |
| Johnson | 2275060012 | 0.8034 | 2.7242 | 2.3582 | 0.0343 | 0.2017 | 0.0000 |
| Johnson | 2275050011 | 2.6290 | 0.1420 | 140.5645 | 0.0710 | 0.1404 | 0.0802 |
| Johnson | 2275050012 | 10.4313 | 5.8604 | 31.1704 | 0.1174 | 0.9029 | 0.0000 |
| Johnson | 2275001000 | 0.4530 | 0.0239 | 16.9717 | 0.0003 | 0.0228 | 0.0093 |
| Jones | 2275020000 | 0.4658 | 0.1328 | 2.3230 | 0.0044 | 0.0376 | 0.0000 |
| Jones | 2275050011 | 0.8876 | 0.0316 | 42.0312 | 0.0254 | 0.0414 | 0.0248 |
| Jones | 2275050012 | 2.9766 | 1.5694 | 7.0292 | 0.0313 | 0.2331 | 0.0000 |
| Jones | 2275001000 | 0.0080 | 0.4522 | 0.0893 | 0.0050 | 0.0262 | 0.0000 |
| Karnes | 2275020000 | 0.0768 | 0.0433 | 0.4557 | 0.0016 | 0.0112 | 0.0000 |
| Karnes | 2275050011 | 0.2754 | 0.0031 | 12.5605 | 0.0046 | 0.0115 | 0.0068 |
| Karnes | 2275050012 | 0.3893 | 0.8661 | 4.6484 | 0.0070 | 0.1045 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Karnes | 2275001000 | 0.1405 | 0.0277 | 0.3443 | 0.0013 | 0.0068 | 0.0000 |
| Kaufman | 2275020000 | 1.1773 | 0.4189 | 12.5727 | 0.0149 | 0.0983 | 0.0055 |
| Kaufman | 2275060012 | 0.4839 | 3.6069 | 1.5149 | 0.0422 | 0.2283 | 0.0000 |
| Kaufman | 2275050011 | 5.5851 | 0.2622 | 300.1658 | 0.1786 | 0.3350 | 0.1724 |
| Kaufman | 2275050012 | 12.6925 | 6.5232 | 34.2614 | 0.1500 | 0.8748 | 0.0000 |
| Kaufman | 2275001000 | 2.3664 | 0.1993 | 2.8753 | 0.0154 | 0.0485 | 0.0000 |
| Kendall | 2275050011 | 0.1401 | 0.0052 | 7.0473 | 0.0045 | 0.0066 | 0.0041 |
| Kendall | 2275050012 | 0.0252 | 0.0013 | 0.0567 | 0.0002 | 0.0006 | 0.0000 |
| Kenedy | 2275050011 | 0.2181 | 0.0075 | 8.9584 | 0.0056 | 0.0084 | 0.0052 |
| Kent | 2275020000 | 0.0639 | 0.0182 | 0.3185 | 0.0009 | 0.0054 | 0.0000 |
| Kent | 2275050011 | 0.0392 | 0.0007 | 1.9058 | 0.0009 | 0.0017 | 0.0010 |
| Kent | 2275050012 | 0.2812 | 0.1050 | 0.6162 | 0.0028 | 0.0207 | 0.0000 |
| Kent | 2275001000 | 0.0025 | 0.1819 | 0.0266 | 0.0020 | 0.0102 | 0.0000 |
| Kerr | 2275020000 | 6.6458 | 6.9840 | 30.0094 | 0.1204 | 0.7638 | 0.0077 |
| Kerr | 2275060012 | 2.7839 | 13.4073 | 7.9033 | 0.1656 | 0.8894 | 0.0000 |
| Kerr | 2275050011 | 2.9978 | 0.4805 | 148.1050 | 0.0859 | 0.1996 | 0.0848 |
| Kerr | 2275050012 | 30.2551 | 16.3228 | 73.9599 | 0.3959 | 2.3096 | 0.0000 |
| Kerr | 2275001000 | 0.3759 | 0.1363 | 5.4981 | 0.0045 | 0.0408 | 0.0025 |
| Kimble | 2275020000 | 0.1307 | 0.0237 | 0.3280 | 0.0011 | 0.0064 | 0.0000 |
| Kimble | 2275060012 | 0.0874 | 0.0826 | 0.2504 | 0.0011 | 0.0106 | 0.0000 |
| Kimble | 2275050011 | 0.1699 | 0.0108 | 10.7588 | 0.0068 | 0.0124 | 0.0065 |
| Kimble | 2275050012 | 1.2497 | 1.5428 | 3.4213 | 0.0247 | 0.1496 | 0.0000 |
| Kimble | 2275001000 | 3.9881 | 0.3165 | 9.2678 | 0.0367 | 0.0988 | 0.0000 |
| King | 2275050011 | 0.0852 | 0.0029 | 3.4992 | 0.0022 | 0.0033 | 0.0020 |
| Kinney | 2275020000 | 0.0362 | 0.1690 | 0.1028 | 0.0029 | 0.0152 | 0.0000 |
| Kinney | 2275050011 | 0.2667 | 0.0095 | 12.4534 | 0.0079 | 0.0117 | 0.0072 |
| Kinney | 2275050012 | 9.4710 | 1.1742 | 25.1780 | 0.0938 | 0.3541 | 0.0000 |
| Kinney | 2275001000 | 11.6297 | 2.5014 | 89.7447 | 0.1326 | 1.0284 | 0.0000 |
| Kleberg | 2275020000 | 0.5643 | 1.5328 | 2.2135 | 0.0151 | 0.1573 | 0.0000 |
| Kleberg | 2275060012 | 0.0523 | 0.4260 | 0.2085 | 0.0050 | 0.0282 | 0.0000 |
| Kleberg | 2275050011 | 0.0496 | 0.0016 | 3.7459 | 0.0024 | 0.0041 | 0.0022 |
| Kleberg | 2275050012 | 0.5154 | 0.4683 | 1.5424 | 0.0086 | 0.0512 | 0.0000 |
| Kleberg | 2275001000 | 5.8703 | 5.2521 | 24.6187 | 0.0663 | 1.1338 | 0.0001 |
| Knox | 2275020000 | 0.0829 | 0.0274 | 0.4424 | 0.0007 | 0.0074 | 0.0000 |
| Knox | 2275050011 | 0.2951 | 0.0106 | 13.2138 | 0.0082 | 0.0126 | 0.0078 |
| Knox | 2275050012 | 0.3142 | 0.1640 | 0.7292 | 0.0028 | 0.0308 | 0.0000 |
| Knox | 2275001000 | 0.0083 | 0.2884 | 0.0728 | 0.0033 | 0.0164 | 0.0000 |
| La Salle | 2275020000 | 0.7578 | 0.2275 | 2.1800 | 0.0075 | 0.0480 | 0.0000 |
| La Salle | 2275060012 | 0.5037 | 3.4376 | 1.8318 | 0.0404 | 0.2295 | 0.0000 |
| La Salle | 2275050011 | 0.2848 | 0.0105 | 15.9169 | 0.0102 | 0.0163 | 0.0090 |
| La Salle | 2275050012 | 6.4463 | 3.8110 | 15.6612 | 0.0853 | 0.4782 | 0.0000 |
| La Salle | 2275001000 | 3.8753 | 0.4272 | 9.2411 | 0.0293 | 0.1323 | 0.0000 |
| Lamar | 2275020000 | 0.4162 | 0.1194 | 5.4935 | 0.0035 | 0.0333 | 0.0025 |
| Lamar | 2275060012 | 0.3470 | 0.3631 | 0.6684 | 0.0060 | 0.0315 | 0.0000 |
| Lamar | 2275050011 | 2.5759 | 0.1169 | 141.2256 | 0.0833 | 0.1429 | 0.0819 |
| Lamar | 2275050012 | 7.2256 | 1.8977 | 17.1844 | 0.0693 | 0.3990 | 0.0000 |
| Lamar | 2275001000 | 0.0071 | 0.0099 | 0.5862 | 0.0000 | 0.0030 | 0.0004 |
| Lamb | 2275020000 | 0.0468 | 0.0092 | 0.2035 | 0.0005 | 0.0030 | 0.0000 |
| Lamb | 2275050011 | 0.6825 | 0.0236 | 28.8123 | 0.0176 | 0.0274 | 0.0170 |
| Lamb | 2275050012 | 0.2070 | 0.0735 | 0.4987 | 0.0021 | 0.0139 | 0.0000 |
| Lamb | 2275001000 | 0.0045 | 0.0778 | 0.0267 | 0.0009 | 0.0049 | 0.0000 |
| Lampasas | 2275020000 | 0.1262 | 0.0167 | 3.1032 | 0.0014 | 0.0076 | 0.0014 |
| Lampasas | 2275050011 | 1.2242 | 0.2376 | 67.9870 | 0.0401 | 0.0916 | 0.0389 |
| Lampasas | 2275050012 | 0.8813 | 1.4413 | 3.1093 | 0.0179 | 0.1398 | 0.0000 |
| Lampasas | 2275001000 | 0.6551 | 0.0939 | 2.1802 | 0.0056 | 0.0299 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Lavaca | 2275020000 | 0.2633 | 0.1003 | 1.4755 | 0.0030 | 0.0261 | 0.0000 |
| Lavaca | 2275050011 | 0.2070 | 0.0081 | 10.5046 | 0.0048 | 0.0099 | 0.0060 |
| Lavaca | 2275050012 | 2.1382 | 0.9160 | 4.4335 | 0.0210 | 0.1451 | 0.0000 |
| Lavaca | 2275001000 | 0.0121 | 0.8789 | 0.1287 | 0.0099 | 0.0491 | 0.0000 |
| Lee | 2275020000 | 0.0110 | 0.0081 | 0.7561 | 0.0000 | 0.0027 | 0.0005 |
| Lee | 2275050011 | 0.8437 | 0.0235 | 53.5865 | 0.0340 | 0.0540 | 0.0306 |
| Lee | 2275050012 | 0.4376 | 0.0736 | 2.2373 | 0.0035 | 0.0207 | 0.0000 |
| Lee | 2275001000 | 0.3297 | 0.0380 | 1.0776 | 0.0029 | 0.0106 | 0.0002 |
| Leon | 2275050011 | 0.2869 | 0.0104 | 13.8894 | 0.0089 | 0.0130 | 0.0081 |
| Leon | 2275050012 | 0.0418 | 0.0298 | 0.1023 | 0.0003 | 0.0044 | 0.0000 |
| Liberty | 2275020000 | 0.9638 | 0.1251 | 14.7397 | 0.0073 | 0.0466 | 0.0068 |
| Liberty | 2275060012 | 0.0987 | 4.1663 | 0.8087 | 0.0461 | 0.2432 | 0.0000 |
| Liberty | 2275050011 | 1.7858 | 0.0800 | 104.3315 | 0.0463 | 0.1052 | 0.0613 |
| Liberty | 2275050012 | 3.9175 | 0.8333 | 15.5087 | 0.0349 | 0.2465 | 0.0000 |
| Limestone | 2275060012 | 0.0241 | 1.4739 | 0.2663 | 0.0164 | 0.0845 | 0.0000 |
| Limestone | 2275050011 | 0.3371 | 0.0559 | 15.3064 | 0.0085 | 0.0255 | 0.0150 |
| Limestone | 2275050012 | 1.1658 | 1.8351 | 4.6816 | 0.0271 | 0.1789 | 0.0000 |
| Limestone | 2275001000 | 0.0266 | 0.0071 | 0.1535 | 0.0003 | 0.0023 | 0.0000 |
| Lipscomb | 2275020000 | 0.0858 | 0.0233 | 0.4945 | 0.0008 | 0.0075 | 0.0000 |
| Lipscomb | 2275050011 | 0.1483 | 0.0043 | 6.3168 | 0.0037 | 0.0059 | 0.0036 |
| Lipscomb | 2275050012 | 0.1387 | 0.0556 | 0.3841 | 0.0012 | 0.0114 | 0.0000 |
| Live Oak | 2275020000 | 0.1251 | 0.0339 | 0.7483 | 0.0012 | 0.0109 | 0.0000 |
| Live Oak | 2275050011 | 0.3032 | 0.0080 | 17.9095 | 0.0122 | 0.0172 | 0.0104 |
| Live Oak | 2275050012 | 0.5188 | 0.1166 | 2.0683 | 0.0049 | 0.0335 | 0.0000 |
| Live Oak | 2275001000 | 0.0081 | 0.0212 | 0.0425 | 0.0001 | 0.0045 | 0.0000 |
| Llano | 2275020000 | 1.8772 | 1.0505 | 6.6527 | 0.0250 | 0.1328 | 0.0011 |
| Llano | 2275060012 | 0.9732 | 3.4413 | 3.2704 | 0.0433 | 0.2706 | 0.0000 |
| Llano | 2275050011 | 1.7190 | 0.0714 | 88.3280 | 0.0428 | 0.0843 | 0.0488 |
| Llano | 2275050012 | 7.3293 | 3.3936 | 19.2191 | 0.0895 | 0.5578 | 0.0000 |
| Llano | 2275001000 | 0.0490 | 0.0162 | 0.2646 | 0.0004 | 0.0041 | 0.0000 |
| Lubbock | 2275020000 | 36.6101 | 148.4975 | 181.0559 | 1.1785 | 12.1583 | 0.0189 |
| Lubbock | 2275060012 | 2.0077 | 10.9792 | 6.5964 | 0.0964 | 0.9235 | 0.0000 |
| Lubbock | 2275050011 | 4.7406 | 0.2324 | 267.4988 | 0.1748 | 0.2602 | 0.1542 |
| Lubbock | 2275050012 | 25.1277 | 15.5906 | 67.8774 | 0.3318 | 2.1528 | 0.0000 |
| Lubbock | 2275001000 | 7.2338 | 11.6969 | 32.5518 | 0.1414 | 1.3283 | 0.0001 |
| Lubbock | 2275070000 | 0.3736 | 5.4647 | 6.7362 | 0.6679 | 0.9013 | 0.0000 |
| Lubbock | 2265008005 | 1.4573 | 3.1239 | 52.4440 | 0.0000 | 0.0000 | 0.0000 |
| Lubbock | 2270008005 | 0.5038 | 3.5924 | 1.0321 | 0.1236 | 0.0000 | 0.0000 |
| Lynn | 2275020000 | 0.1034 | 0.0203 | 0.4491 | 0.0010 | 0.0067 | 0.0000 |
| Lynn | 2275050011 | 0.1668 | 0.0061 | 8.5791 | 0.0044 | 0.0088 | 0.0053 |
| Lynn | 2275050012 | 0.4568 | 0.1623 | 1.1006 | 0.0047 | 0.0307 | 0.0000 |
| Lynn | 2275001000 | 0.0099 | 0.1717 | 0.0589 | 0.0019 | 0.0107 | 0.0000 |
| Madison | 2275020000 | 0.0053 | 0.0458 | 0.0767 | 0.0000 | 0.0107 | 0.0000 |
| Madison | 2275050011 | 0.2367 | 0.0151 | 15.4989 | 0.0079 | 0.0189 | 0.0091 |
| Madison | 2275050012 | 0.0175 | 0.0795 | 0.1334 | 0.0001 | 0.0167 | 0.0000 |
| Marion | 2275020000 | 0.1910 | 0.0581 | 1.1027 | 0.0022 | 0.0178 | 0.0000 |
| Marion | 2275050011 | 0.4576 | 0.0105 | 26.9336 | 0.0189 | 0.0269 | 0.0146 |
| Marion | 2275050012 | 0.2614 | 0.0421 | 0.5056 | 0.0021 | 0.0105 | 0.0000 |
| Martin | 2275020000 | 0.1181 | 0.0474 | 0.6931 | 0.0018 | 0.0131 | 0.0000 |
| Martin | 2275050011 | 0.1103 | 0.0029 | 5.2789 | 0.0028 | 0.0050 | 0.0030 |
| Martin | 2275050012 | 0.8834 | 0.3340 | 2.2192 | 0.0080 | 0.0649 | 0.0000 |
| Martin | 2275001000 | 0.0070 | 0.2727 | 0.0476 | 0.0031 | 0.0154 | 0.0000 |
| Mason | 2275020000 | 0.0302 | 0.0081 | 0.1740 | 0.0003 | 0.0026 | 0.0000 |
| Mason | 2275050011 | 0.3633 | 0.0165 | 20.3256 | 0.0113 | 0.0206 | 0.0119 |
| Mason | 2275050012 | 0.0707 | 0.0150 | 0.1848 | 0.0006 | 0.0039 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Matagorda | 2275020000 | 2.0152 | 0.3780 | 5.4791 | 0.0165 | 0.0960 | 0.0000 |
| Matagorda | 2275060012 | 0.0622 | 2.7272 | 0.5869 | 0.0306 | 0.1571 | 0.0000 |
| Matagorda | 2275050011 | 1.0090 | 0.0392 | 58.6535 | 0.0321 | 0.0595 | 0.0327 |
| Matagorda | 2275050012 | 4.8868 | 5.8238 | 14.2216 | 0.0930 | 0.5769 | 0.0000 |
| Matagorda | 2275001000 | 1.0626 | 1.7831 | 5.2190 | 0.0087 | 0.3787 | 0.0003 |
| Maverick | 2275020000 | 0.0686 | 0.0470 | 0.3378 | 0.0007 | 0.0085 | 0.0000 |
| Maverick | 2275060012 | 0.0007 | 0.0017 | 0.0081 | 0.0000 | 0.0004 | 0.0000 |
| Maverick | 2275050011 | 0.0443 | 0.0006 | 2.2661 | 0.0010 | 0.0022 | 0.0012 |
| Maverick | 2275050012 | 0.7119 | 0.3626 | 1.7790 | 0.0065 | 0.0641 | 0.0000 |
| Maverick | 2275001000 | 0.0124 | 0.0009 | 0.0287 | 0.0001 | 0.0003 | 0.0000 |
| Mcculloch | 2275020000 | 1.2950 | 0.9238 | 6.4923 | 0.0262 | 0.1572 | 0.0009 |
| Mcculloch | 2275060012 | 0.8736 | 7.6910 | 4.5256 | 0.0909 | 0.4840 | 0.0000 |
| Mcculloch | 2275050011 | 0.4497 | 0.0108 | 26.0325 | 0.0140 | 0.0249 | 0.0145 |
| Mcculloch | 2275050012 | 7.3974 | 2.1459 | 20.7804 | 0.0688 | 0.4527 | 0.0000 |
| Mcculloch | 2275001000 | 0.2135 | 0.0233 | 0.7334 | 0.0016 | 0.0072 | 0.0002 |
| Mclennan | 2275020000 | 25.7866 | 27.4353 | 80.7434 | 0.3314 | 3.1149 | 0.0085 |
| Mclennan | 2275060012 | 7.2683 | 4.4036 | 17.6340 | 0.0933 | 0.4987 | 0.0000 |
| Mclennan | 2275050011 | 4.4289 | 0.4188 | 283.1027 | 0.1293 | 0.3008 | 0.1833 |
| Mclennan | 2275050012 | 54.7037 | 41.1746 | 146.3168 | 0.6911 | 4.5373 | 0.0000 |
| Mclennan | 2275001000 | 44.7791 | 12.9699 | 117.0100 | 0.3780 | 2.1975 | 0.0005 |
| Mclennan | 2275070000 | 0.0608 | 0.6461 | 2.0757 | 0.0949 | 0.1522 | 0.0000 |
| Mclennan | 2265008005 | 0.5056 | 1.2583 | 19.6155 | 0.0000 | 0.0000 | 0.0000 |
| Mclennan | 2270008005 | 0.0538 | 0.3974 | 0.0617 | 0.0021 | 0.0000 | 0.0000 |
| Mcmullen | 2275050011 | 0.0433 | 0.0015 | 1.7821 | 0.0011 | 0.0017 | 0.0010 |
| Mcmullen | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Medina | 2275020000 | 1.5198 | 0.7559 | 6.8271 | 0.0413 | 0.1736 | 0.0006 |
| Medina | 2275060012 | 0.0811 | 0.9214 | 0.3838 | 0.0107 | 0.0581 | 0.0000 |
| Medina | 2275050011 | 2.0407 | 0.1358 | 118.8438 | 0.0644 | 0.1356 | 0.0703 |
| Medina | 2275050012 | 8.8244 | 3.3059 | 20.4359 | 0.0906 | 0.5296 | 0.0000 |
| Medina | 2275001000 | 0.6898 | 9.1342 | 3.4620 | 0.1061 | 0.5412 | 0.0000 |
| Menard | 2275020000 | 0.0133 | 0.0056 | 0.0709 | 0.0002 | 0.0014 | 0.0000 |
| Menard | 2275050011 | 0.0872 | 0.0033 | 4.3258 | 0.0028 | 0.0042 | 0.0025 |
| Menard | 2275050012 | 0.4116 | 0.0656 | 0.9395 | 0.0039 | 0.0144 | 0.0000 |
| Menard | 2275001000 | 0.0023 | 0.0773 | 0.0150 | 0.0009 | 0.0044 | 0.0000 |
| Midland | 2275020000 | 24.0625 | 86.3017 | 102.5707 | 0.7835 | 8.4546 | 0.0011 |
| Midland | 2275060012 | 4.6563 | 30.3189 | 19.6188 | 0.3284 | 2.3285 | 0.0000 |
| Midland | 2275050011 | 2.2600 | 0.1141 | 132.6011 | 0.0835 | 0.1344 | 0.0759 |
| Midland | 2275050012 | 33.7643 | 35.9055 | 106.2343 | 0.6215 | 3.8663 | 0.0000 |
| Midland | 2275001000 | 5.0709 | 2.0921 | 21.4231 | 0.0599 | 0.4030 | 0.0001 |
| Midland | 2275070000 | 0.7196 | 3.8717 | 7.0572 | 0.4973 | 0.6657 | 0.0000 |
| Midland | 2265008005 | 0.9700 | 2.0022 | 34.2108 | 0.0000 | 0.0000 | 0.0000 |
| Midland | 2270008005 | 0.2757 | 2.0360 | 0.5515 | 0.0401 | 0.0000 | 0.0000 |
| Milam | 2275020000 | 0.0205 | 0.1760 | 0.2947 | 0.0000 | 0.0409 | 0.0000 |
| Milam | 2275050011 | 0.8897 | 0.0573 | 57.8988 | 0.0292 | 0.0711 | 0.0342 |
| Milam | 2275050012 | 0.0509 | 0.3043 | 0.4761 | 0.0001 | 0.0637 | 0.0000 |
| Mills | 2275020000 | 0.3401 | 0.1086 | 1.9646 | 0.0041 | 0.0328 | 0.0000 |
| Mills | 2275050011 | 0.3163 | 0.0107 | 15.4507 | 0.0088 | 0.0153 | 0.0092 |
| Mills | 2275050012 | 1.5304 | 0.2477 | 3.5542 | 0.0149 | 0.0731 | 0.0000 |
| Mitchell | 2275020000 | 0.1383 | 0.0393 | 0.6902 | 0.0020 | 0.0117 | 0.0000 |
| Mitchell | 2275050011 | 0.0845 | 0.0015 | 4.1069 | 0.0020 | 0.0036 | 0.0023 |
| Mitchell | 2275050012 | 0.6093 | 0.2275 | 1.3351 | 0.0061 | 0.0448 | 0.0000 |
| Mitchell | 2275001000 | 0.0054 | 0.3941 | 0.0577 | 0.0044 | 0.0220 | 0.0000 |
| Montague | 2275020000 | 0.2298 | 0.0722 | 0.8569 | 0.0046 | 0.0182 | 0.0000 |
| Montague | 2275050011 | 0.1702 | 0.0059 | 9.5824 | 0.0046 | 0.0100 | 0.0054 |
| Montague | 2275050012 | 1.8339 | 0.8181 | 4.2073 | 0.0182 | 0.1312 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-------------|------------|---------|---------|----------|----------------|--------|--------|
| Montague | 2275001000 | 0.0289 | 1.7336 | 0.2889 | 0.0194 | 0.0982 | 0.0000 |
| Montgomery | 2275020000 | 9.1736 | 12.9851 | 42.9586 | 0.1598 | 1.6019 | 0.0077 |
| Montgomery | 2275060012 | 2.6923 | 13.4668 | 9.0528 | 0.1831 | 1.0121 | 0.0000 |
| Montgomery | 2275050011 | 8.8913 | 0.7930 | 348.9140 | 0.1804 | 0.3480 | 0.2091 |
| Montgomery | 2275050012 | 29.7832 | 53.2694 | 93.1121 | 0.8877 | 5.2152 | 0.0000 |
| Montgomery | 2275001000 | 3.5992 | 0.6727 | 23.8008 | 0.0284 | 0.1842 | 0.0092 |
| Montgomery | 2275070000 | 0.1751 | 2.4936 | 9.5330 | 0.3624 | 0.5475 | 0.0000 |
| Montgomery | 2265008005 | 0.6145 | 1.4998 | 23.5885 | 0.0000 | 0.0000 | 0.0000 |
| Montgomery | 2270008005 | 0.1090 | 0.7414 | 0.1394 | 0.0218 | 0.0000 | 0.0000 |
| Moore | 2275020000 | 1.7464 | 1.1410 | 6.2477 | 0.0226 | 0.1466 | 0.0003 |
| Moore | 2275060012 | 0.0206 | 1.2312 | 0.2285 | 0.0137 | 0.0708 | 0.0000 |
| Moore | 2275050011 | 0.7319 | 0.0448 | 37.3868 | 0.0230 | 0.0423 | 0.0212 |
| Moore | 2275050012 | 6.4295 | 3.7435 | 16.4709 | 0.0787 | 0.5109 | 0.0000 |
| Moore | 2275001000 | 0.0514 | 0.0082 | 0.1139 | 0.0006 | 0.0021 | 0.0000 |
| Morris | 2275020000 | 0.0030 | 0.0009 | 0.0172 | 0.0000 | 0.0003 | 0.0000 |
| Morris | 2275050011 | 0.0068 | 0.0001 | 0.3994 | 0.0003 | 0.0004 | 0.0002 |
| Morris | 2275050012 | 0.0050 | 0.0399 | 0.0217 | 0.0000 | 0.0051 | 0.0000 |
| Motley | 2275050011 | 0.0004 | 0.0000 | 0.0197 | 0.0000 | 0.0000 | 0.0000 |
| Motley | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Nacogdoches | 2275020000 | 0.9058 | 0.4415 | 10.1917 | 0.0130 | 0.0865 | 0.0046 |
| Nacogdoches | 2275060012 | 0.6315 | 5.6095 | 2.1476 | 0.0651 | 0.3455 | 0.0000 |
| Nacogdoches | 2275050011 | 2.2263 | 0.1126 | 111.4053 | 0.0533 | 0.1119 | 0.0643 |
| Nacogdoches | 2275050012 | 10.3431 | 22.4864 | 31.5825 | 0.3191 | 1.8022 | 0.0000 |
| Nacogdoches | 2275001000 | 0.1515 | 0.0608 | 0.8898 | 0.0014 | 0.0172 | 0.0000 |
| Navarro | 2275020000 | 2.3153 | 0.2510 | 5.6822 | 0.0208 | 0.0931 | 0.0005 |
| Navarro | 2275050011 | 1.7725 | 0.1536 | 108.2082 | 0.0573 | 0.1070 | 0.0633 |
| Navarro | 2275050012 | 9.3926 | 4.9024 | 32.5283 | 0.1120 | 0.7614 | 0.0000 |
| Navarro | 2275001000 | 0.0127 | 0.0000 | 0.4436 | 0.0000 | 0.0004 | 0.0002 |
| Newton | 2275020000 | 0.1780 | 0.0471 | 1.0173 | 0.0017 | 0.0152 | 0.0000 |
| Newton | 2275050011 | 0.0530 | 0.0019 | 3.8805 | 0.0024 | 0.0041 | 0.0023 |
| Newton | 2275050012 | 0.1116 | 0.0212 | 0.2105 | 0.0009 | 0.0047 | 0.0000 |
| Nolan | 2275020000 | 0.3050 | 0.1951 | 0.8028 | 0.0030 | 0.0315 | 0.0000 |
| Nolan | 2275060012 | 0.0336 | 1.2519 | 0.2618 | 0.0138 | 0.0741 | 0.0000 |
| Nolan | 2275050011 | 0.3085 | 0.0142 | 15.1158 | 0.0081 | 0.0152 | 0.0084 |
| Nolan | 2275050012 | 1.8303 | 0.5385 | 4.6961 | 0.0199 | 0.1241 | 0.0000 |
| Nolan | 2275001000 | 0.1059 | 0.0296 | 0.7467 | 0.0010 | 0.0095 | 0.0001 |
| Nueces | 2275020000 | 25.5756 | 85.9350 | 114.1854 | 0.7906 | 9.8717 | 0.0026 |
| Nueces | 2275060012 | 0.8526 | 6.4123 | 6.4823 | 0.0584 | 0.7556 | 0.0000 |
| Nueces | 2275050011 | 2.0407 | 0.0760 | 120.9223 | 0.0692 | 0.1161 | 0.0686 |
| Nueces | 2275050012 | 31.3289 | 18.3462 | 93.2850 | 0.3769 | 3.3910 | 0.0000 |
| Nueces | 2275001000 | 14.3648 | 10.2044 | 43.7809 | 0.2104 | 1.4933 | 0.0006 |
| Nueces | 2275070000 | 0.7370 | 3.7627 | 7.7831 | 0.5437 | 0.8040 | 0.0000 |
| Nueces | 2265008005 | 1.2710 | 2.7831 | 46.1837 | 0.0000 | 0.0000 | 0.0000 |
| Nueces | 2270008005 | 0.3274 | 2.4392 | 0.6161 | 0.0542 | 0.0000 | 0.0000 |
| Ochiltree | 2275020000 | 0.1611 | 0.0624 | 0.5528 | 0.0015 | 0.0142 | 0.0000 |
| Ochiltree | 2275050011 | 0.2375 | 0.0010 | 11.6262 | 0.0055 | 0.0102 | 0.0062 |
| Ochiltree | 2275050012 | 1.7520 | 0.6099 | 7.0032 | 0.0156 | 0.1467 | 0.0000 |
| Oldham | 2275020000 | 0.7550 | 0.2052 | 4.3515 | 0.0074 | 0.0657 | 0.0000 |
| Oldham | 2275050011 | 0.3005 | 0.0031 | 14.3177 | 0.0071 | 0.0127 | 0.0077 |
| Oldham | 2275050012 | 1.2210 | 0.4894 | 3.3804 | 0.0103 | 0.1005 | 0.0000 |
| Orange | 2275020000 | 1.6200 | 0.1864 | 3.6463 | 0.0157 | 0.0591 | 0.0000 |
| Orange | 2275060012 | 0.4544 | 1.5197 | 1.0395 | 0.0194 | 0.1006 | 0.0000 |
| Orange | 2275050011 | 0.6125 | 0.0160 | 32.5459 | 0.0156 | 0.0326 | 0.0183 |
| Orange | 2275050012 | 6.8963 | 1.4137 | 20.5421 | 0.0635 | 0.3665 | 0.0000 |
| Orange | 2275001000 | 0.0617 | 0.0164 | 0.3553 | 0.0006 | 0.0053 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Palo Pinto | 2275020000 | 0.1144 | 0.0298 | 0.4961 | 0.0012 | 0.0085 | 0.0000 |
| Palo Pinto | 2275050011 | 0.2493 | 0.0116 | 13.6083 | 0.0072 | 0.0139 | 0.0080 |
| Palo Pinto | 2275050012 | 0.5396 | 0.1801 | 0.9906 | 0.0042 | 0.0325 | 0.0000 |
| Palo Pinto | 2275001000 | 0.0008 | 0.0350 | 0.0095 | 0.0004 | 0.0021 | 0.0000 |
| Panola | 2275020000 | 0.0034 | 0.0002 | 0.1851 | 0.0000 | 0.0003 | 0.0001 |
| Panola | 2275050011 | 0.1868 | 0.0040 | 10.9993 | 0.0078 | 0.0109 | 0.0059 |
| Panola | 2275050012 | 0.1965 | 0.0829 | 0.7119 | 0.0018 | 0.0173 | 0.0000 |
| Parker | 2275020000 | 1.5789 | 1.1705 | 17.8023 | 0.0233 | 0.1849 | 0.0082 |
| Parker | 2275060012 | 1.3171 | 2.9965 | 3.3838 | 0.0380 | 0.2454 | 0.0000 |
| Parker | 2275050011 | 13.7781 | 0.5369 | 721.7751 | 0.2931 | 0.5270 | 0.4229 |
| Parker | 2275050012 | 10.8085 | 7.2908 | 37.4488 | 0.1310 | 1.1807 | 0.0000 |
| Parker | 2275001000 | 1.8989 | 0.3145 | 15.7060 | 0.0151 | 0.1021 | 0.0070 |
| Parmer | 2275050011 | 1.6650 | 0.0572 | 68.3784 | 0.0429 | 0.0643 | 0.0399 |
| Pecos | 2275020000 | 0.4778 | 0.2305 | 1.5378 | 0.0043 | 0.0445 | 0.0000 |
| Pecos | 2275060012 | 0.0372 | 0.9104 | 0.2821 | 0.0099 | 0.0562 | 0.0000 |
| Pecos | 2275050011 | 0.3572 | 0.0103 | 19.8489 | 0.0118 | 0.0194 | 0.0112 |
| Pecos | 2275050012 | 1.3366 | 0.6818 | 4.4920 | 0.0156 | 0.1354 | 0.0000 |
| Pecos | 2275001000 | 1.2303 | 0.1517 | 3.0328 | 0.0092 | 0.0463 | 0.0000 |
| Polk | 2275020000 | 1.0585 | 0.3220 | 6.0294 | 0.0118 | 0.0970 | 0.0000 |
| Polk | 2275050011 | 0.8010 | 0.0168 | 41.1107 | 0.0205 | 0.0373 | 0.0226 |
| Polk | 2275050012 | 1.9595 | 0.9863 | 5.0124 | 0.0197 | 0.1743 | 0.0000 |
| Polk | 2275001000 | 0.0699 | 4.4839 | 0.7287 | 0.0503 | 0.2535 | 0.0000 |
| Potter | 2275020000 | 11.1743 | 41.3396 | 47.9560 | 0.3761 | 4.0886 | 0.0016 |
| Potter | 2275060012 | 2.0020 | 9.1107 | 6.0366 | 0.0762 | 0.8085 | 0.0000 |
| Potter | 2275050011 | 0.4617 | 0.0432 | 22.7381 | 0.0110 | 0.0268 | 0.0131 |
| Potter | 2275050012 | 10.7040 | 10.7588 | 29.9005 | 0.1624 | 1.2515 | 0.0000 |
| Potter | 2275001000 | 10.9302 | 14.3450 | 54.2058 | 0.1851 | 1.8017 | 0.0004 |
| Potter | 2275070000 | 0.2099 | 2.6635 | 4.0713 | 0.3420 | 0.5297 | 0.0000 |
| Potter | 2265008005 | 0.7674 | 1.6112 | 27.2516 | 0.0000 | 0.0000 | 0.0000 |
| Potter | 2270008005 | 0.2438 | 1.9749 | 0.5271 | 0.0579 | 0.0000 | 0.0000 |
| Presidio | 2275020000 | 0.9654 | 0.9198 | 3.2318 | 0.0186 | 0.1145 | 0.0000 |
| Presidio | 2275060012 | 0.7274 | 2.3764 | 2.3615 | 0.0336 | 0.1909 | 0.0000 |
| Presidio | 2275050011 | 0.4060 | 0.0152 | 20.4697 | 0.0119 | 0.0209 | 0.0111 |
| Presidio | 2275050012 | 3.3227 | 2.8440 | 10.1112 | 0.0546 | 0.3882 | 0.0000 |
| Presidio | 2275001000 | 0.2255 | 0.8804 | 0.8737 | 0.0118 | 0.0650 | 0.0000 |
| Rains | 2275050011 | 0.0409 | 0.0016 | 2.2366 | 0.0015 | 0.0021 | 0.0013 |
| Rains | 2275050012 | 0.0108 | 0.0006 | 0.0244 | 0.0001 | 0.0002 | 0.0000 |
| Randall | 2275020000 | 0.3939 | 0.2560 | 7.4552 | 0.0071 | 0.0587 | 0.0033 |
| Randall | 2275060012 | 0.0669 | 0.0075 | 0.1053 | 0.0005 | 0.0020 | 0.0000 |
| Randall | 2275050011 | 4.1362 | 0.2247 | 248.4565 | 0.1682 | 0.2633 | 0.1429 |
| Randall | 2275050012 | 16.7306 | 4.8104 | 49.0374 | 0.1752 | 1.0977 | 0.0000 |
| Randall | 2275001000 | 0.0184 | 0.0136 | 0.3288 | 0.0001 | 0.0037 | 0.0001 |
| Reagan | 2275020000 | 0.0255 | 0.0107 | 0.1363 | 0.0003 | 0.0027 | 0.0000 |
| Reagan | 2275050011 | 0.0213 | 0.0011 | 1.4506 | 0.0009 | 0.0016 | 0.0009 |
| Reagan | 2275050012 | 0.7748 | 0.1252 | 1.7691 | 0.0074 | 0.0273 | 0.0000 |
| Reagan | 2275001000 | 0.0044 | 0.1487 | 0.0289 | 0.0017 | 0.0085 | 0.0000 |
| Real | 2275020000 | 0.0340 | 0.0143 | 0.1817 | 0.0005 | 0.0036 | 0.0000 |
| Real | 2275050011 | 0.0776 | 0.0032 | 3.9515 | 0.0025 | 0.0040 | 0.0024 |
| Real | 2275050012 | 1.0331 | 0.1675 | 2.3589 | 0.0098 | 0.0364 | 0.0000 |
| Real | 2275001000 | 0.0058 | 0.1982 | 0.0385 | 0.0022 | 0.0114 | 0.0000 |
| Red River | 2275050011 | 0.2289 | 0.0091 | 11.5622 | 0.0058 | 0.0125 | 0.0071 |
| Red River | 2275050012 | 0.0408 | 0.0190 | 0.0953 | 0.0004 | 0.0039 | 0.0000 |
| Reeves | 2275020000 | 1.3586 | 0.3976 | 4.6484 | 0.0133 | 0.0835 | 0.0006 |
| Reeves | 2275060012 | 0.7205 | 2.5662 | 1.7580 | 0.0321 | 0.1748 | 0.0000 |
| Reeves | 2275050011 | 0.8484 | 0.0219 | 47.2072 | 0.0257 | 0.0471 | 0.0267 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|---------------|------------|--------|-----------------|----------|----------------|-----------------|--------|
| Reeves | 2275050012 | 7.7012 | 7.9589 | 26.1806 | 0.1423 | 1.2043 | 0.0000 |
| Reeves | 2275001000 | 2.4239 | 0.2741 | 3.9543 | 0.0170 | 0.0730 | 0.0000 |
| Refugio | 2275020000 | 0.2913 | 0.0946 | 1.6958 | 0.0029 | 0.0276 | 0.0000 |
| Refugio | 2275050011 | 0.1928 | 0.0059 | 9.5572 | 0.0047 | 0.0097 | 0.0053 |
| Refugio | 2275050012 | 1.3725 | 0.9580 | 3.9617 | 0.0146 | 0.1665 | 0.0000 |
| Refugio | 2275001000 | 0.0219 | 1.5913 | 0.2330 | 0.0179 | 0.0889 | 0.0000 |
| Roberts | 2275020000 | 0.0172 | 0.0047 | 0.0989 | 0.0002 | 0.0015 | 0.0000 |
| Roberts | 2275050011 | 0.0389 | 0.0013 | 2.0871 | 0.0013 | 0.0019 | 0.0012 |
| Roberts | 2275050012 | 0.0364 | 0.0116 | 0.0964 | 0.0003 | 0.0025 | 0.0000 |
| Robertson | 2275050011 | 0.4057 | 0.0225 | 23.9262 | 0.0128 | 0.0282 | 0.0141 |
| Robertson | 2275050012 | 0.0303 | 0.1550 | 0.4558 | 0.0001 | 0.0336 | 0.0000 |
| Robertson | 2275001000 | 0.0007 | 0.0059 | 0.0098 | 0.0000 | 0.0014 | 0.0000 |
| Rockwall | 2275020000 | 0.0445 | 0.0066 | 3.9463 | 0.0007 | 0.0044 | 0.0016 |
| Rockwall | 2275050011 | 4.5175 | 0.1530 | 264.9352 | 0.1517 | 0.2679 | 0.1516 |
| Rockwall | 2275050012 | 1.8338 | 3.2107 | 9.5824 | 0.0302 | 0.4349 | 0.0000 |
| Rockwall | 2275001000 | 0.0168 | 0.0031 | 1.5380 | 0.0000 | 0.0031 | 0.0010 |
| Runnels | 2275020000 | 0.1957 | 0.0821 | 1.0447 | 0.0026 | 0.0208 | 0.0000 |
| Runnels | 2275050011 | 0.2015 | 0.0099 | 13.2003 | 0.0083 | 0.0142 | 0.0080 |
| Runnels | 2275050012 | 5.9503 | 0.9605 | 13.5854 | 0.0565 | 0.2094 | 0.0000 |
| Runnels | 2275001000 | 0.0336 | 1.1397 | 0.2213 | 0.0128 | 0.0653 | 0.0000 |
| Rusk | 2275020000 | 0.0470 | 0.0151 | 1.0143 | 0.0006 | 0.0051 | 0.0005 |
| Rusk | 2275060012 | 0.0157 | 1.1417 | 0.1672 | 0.0128 | 0.0638 | 0.0000 |
| Rusk | 2275050011 | 1.4716 | 0.0386 | 72.1966 | 0.0390 | 0.0721 | 0.0391 |
| Rusk | 2275050012 | 0.6231 | 0.1017 | 1.5430 | 0.0055 | 0.0274 | 0.0000 |
| Rusk | 2275001000 | 0.0214 | 0.0406 | 0.2000 | 0.0000 | 0.0086 | 0.0000 |
| Sabine | 2275020000 | 0.0690 | 0.0210 | 0.3932 | 0.0008 | 0.0063 | 0.0000 |
| Sabine | 2275050011 | 0.0504 | 0.0010 | 2.5807 | 0.0013 | 0.0023 | 0.0014 |
| Sabine | 2275050012 | 0.1280 | 0.0920 | 0.3357 | 0.0013 | 0.0148 | 0.0000 |
| Sabine | 2275001000 | 0.0046 | 0.2924 | 0.0475 | 0.0033 | 0.0165 | 0.0000 |
| San Augustine | 2275020000 | 0.0115 | 0.0035 | 0.0655 | 0.0001 | 0.0011 | 0.0000 |
| San Augustine | 2275050011 | 0.0088 | 0.0002 | 0.4459 | 0.0002 | 0.0004 | 0.0002 |
| San Augustine | 2275050012 | 0.0212 | 0.0107 | 0.0543 | 0.0002 | 0.0019 | 0.0000 |
| San Augustine | 2275001000 | 0.0008 | 0.0487 | 0.0079 | 0.0005 | 0.0028 | 0.0000 |
| San Jacinto | 2275050011 | 0.0386 | 0.0015 | 2.1085 | 0.0014 | 0.0020 | 0.0012 |
| San Jacinto | 2275050012 | 0.0102 | 0.0005 | 0.0230 | 0.0001 | 0.0002 | 0.0000 |
| San Patricio | 2275020000 | 2.8330 | 1.1957 | 10.2025 | 0.0273 | 0.2254 | 0.0005 |
| San Patricio | 2275060012 | 1.0403 | 0.1923 | 1.7492 | 0.0087 | 0.0394 | 0.0000 |
| San Patricio | 2275050011 | 2.7275 | 0.1163 | 149.2094 | 0.0811 | 0.1499 | 0.0816 |
| San Patricio | 2275050012 | 7.7130 | 3.2225 | 33.0055 | 0.0839 | 0.7349 | 0.0000 |
| San Patricio | 2275001000 | 0.9832 | 0.3453 | 3.5235 | 0.0091 | 0.0858 | 0.0000 |
| San Saba | 2275020000 | 0.3527 | 0.1127 | 2.0373 | 0.0043 | 0.0340 | 0.0000 |
| San Saba | 2275050011 | 0.2676 | 0.0090 | 13.3288 | 0.0075 | 0.0134 | 0.0080 |
| San Saba | 2275050012 | 1.5830 | 0.2567 | 3.6767 | 0.0154 | 0.0758 | 0.0000 |
| Schleicher | 2275020000 | 0.0426 | 0.0179 | 0.2271 | 0.0006 | 0.0045 | 0.0000 |
| Schleicher | 2275050011 | 0.0360 | 0.0018 | 2.4368 | 0.0015 | 0.0027 | 0.0015 |
| Schleicher | 2275050012 | 1.2913 | 0.2087 | 2.9484 | 0.0123 | 0.0455 | 0.0000 |
| Schleicher | 2275001000 | 0.0073 | 0.2478 | 0.0481 | 0.0028 | 0.0142 | 0.0000 |
| Scurry | 2275020000 | 0.1462 | 0.1390 | 0.4970 | 0.0019 | 0.0196 | 0.0000 |
| Scurry | 2275060012 | 1.2007 | 1.4354 | 3.1642 | 0.0195 | 0.1523 | 0.0000 |
| Scurry | 2275050011 | 0.2874 | 0.0101 | 16.3802 | 0.0093 | 0.0176 | 0.0097 |
| Scurry | 2275050012 | 2.1380 | 0.5633 | 5.9433 | 0.0197 | 0.1208 | 0.0000 |
| Scurry | 2275001000 | 0.0160 | 0.0202 | 0.1174 | 0.0003 | 0.0048 | 0.0000 |
| Shackelford | 2275020000 | 0.2235 | 0.0635 | 1.1149 | 0.0032 | 0.0188 | 0.0000 |
| Shackelford | 2275050011 | 0.1555 | 0.0032 | 7.6872 | 0.0040 | 0.0068 | 0.0043 |
| Shackelford | 2275050012 | 0.9896 | 0.3677 | 2.1685 | 0.0099 | 0.0725 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-------------|------------|----------|-----------------|-----------|----------------|-----------------|--------|
| Shackelford | 2275001000 | 0.0087 | 0.6366 | 0.0932 | 0.0072 | 0.0356 | 0.0000 |
| Shelby | 2275020000 | 0.4935 | 0.0942 | 6.0386 | 0.0038 | 0.0305 | 0.0030 |
| Shelby | 2275050011 | 0.9193 | 0.0147 | 46.3556 | 0.0224 | 0.0429 | 0.0253 |
| Shelby | 2275050012 | 14.3817 | 103.3570 | 41.3143 | 1.2212 | 6.3381 | 0.0000 |
| Shelby | 2275001000 | 0.0378 | 0.0101 | 0.2177 | 0.0004 | 0.0032 | 0.0000 |
| Sherman | 2275050011 | 0.0605 | 0.0021 | 2.4858 | 0.0016 | 0.0023 | 0.0015 |
| Smith | 2275020000 | 7.5808 | 22.4972 | 29.8288 | 0.1476 | 2.1093 | 0.0043 |
| Smith | 2275060012 | 1.5797 | 5.5691 | 4.0331 | 0.0712 | 0.3963 | 0.0000 |
| Smith | 2275050011 | 0.9385 | 0.0643 | 52.6040 | 0.0268 | 0.0479 | 0.0306 |
| Smith | 2275050012 | 12.0170 | 8.5413 | 30.1443 | 0.1982 | 1.1099 | 0.0000 |
| Smith | 2275001000 | 0.2508 | 0.1200 | 2.0027 | 0.0022 | 0.0341 | 0.0005 |
| Smith | 2275070000 | 0.0421 | 0.6662 | 2.5914 | 0.0952 | 0.1464 | 0.0000 |
| Smith | 2265008005 | 0.3317 | 0.8223 | 12.8161 | 0.0000 | 0.0000 | 0.0000 |
| Smith | 2270008005 | 0.0334 | 0.2794 | 0.0432 | 0.0022 | 0.0000 | 0.0000 |
| Somervell | 2275050011 | 0.1133 | 0.0039 | 4.6567 | 0.0029 | 0.0044 | 0.0027 |
| Somervell | 2275050012 | 0.0011 | 0.0393 | 0.0143 | 0.0000 | 0.0049 | 0.0000 |
| Starr | 2275020000 | 0.4248 | 0.2037 | 2.4504 | 0.0077 | 0.0496 | 0.0000 |
| Starr | 2275050011 | 0.0720 | 0.0019 | 3.5852 | 0.0023 | 0.0033 | 0.0021 |
| Starr | 2275050012 | 0.9493 | 0.5514 | 2.2763 | 0.0117 | 0.0825 | 0.0000 |
| Starr | 2275001000 | 0.0256 | 1.8421 | 0.2730 | 0.0207 | 0.1031 | 0.0000 |
| Stephens | 2275020000 | 0.2791 | 0.0885 | 2.0201 | 0.0030 | 0.0267 | 0.0002 |
| Stephens | 2275060012 | 0.0283 | 0.0709 | 0.3380 | 0.0008 | 0.0164 | 0.0000 |
| Stephens | 2275050011 | 0.7796 | 0.0325 | 51.1916 | 0.0326 | 0.0530 | 0.0297 |
| Stephens | 2275050012 | 8.9648 | 2.4074 | 24.0151 | 0.0782 | 0.5591 | 0.0000 |
| Stephens | 2275001000 | 0.0255 | 0.0163 | 0.8921 | 0.0000 | 0.0044 | 0.0005 |
| Sterling | 2275050011 | 0.0604 | 0.0021 | 2.5571 | 0.0016 | 0.0024 | 0.0015 |
| Sterling | 2275050012 | 0.0015 | 0.0001 | 0.0034 | 0.0000 | 0.0000 | 0.0000 |
| Stonewall | 2275020000 | 0.0319 | 0.0091 | 0.1593 | 0.0005 | 0.0027 | 0.0000 |
| Stonewall | 2275050011 | 0.2525 | 0.0084 | 10.5238 | 0.0065 | 0.0098 | 0.0061 |
| Stonewall | 2275050012 | 0.1407 | 0.0525 | 0.3083 | 0.0014 | 0.0103 | 0.0000 |
| Stonewall | 2275001000 | 0.0012 | 0.0909 | 0.0133 | 0.0010 | 0.0051 | 0.0000 |
| Sutton | 2275020000 | 0.0426 | 0.0179 | 0.2271 | 0.0006 | 0.0045 | 0.0000 |
| Sutton | 2275050011 | 0.0784 | 0.0033 | 4.1769 | 0.0026 | 0.0043 | 0.0025 |
| Sutton | 2275050012 | 1.2921 | 0.2364 | 2.9583 | 0.0123 | 0.0489 | 0.0000 |
| Sutton | 2275001000 | 0.0073 | 0.2478 | 0.0481 | 0.0028 | 0.0142 | 0.0000 |
| Swisher | 2275020000 | 0.1744 | 0.0342 | 0.7579 | 0.0017 | 0.0112 | 0.0000 |
| Swisher | 2275050011 | 0.8236 | 0.0292 | 37.7758 | 0.0221 | 0.0367 | 0.0225 |
| Swisher | 2275050012 | 0.7909 | 0.2749 | 1.9026 | 0.0081 | 0.0523 | 0.0000 |
| Swisher | 2275001000 | 0.0168 | 0.2898 | 0.0993 | 0.0032 | 0.0181 | 0.0000 |
| Tarrant | 2275020000 | 414.4202 | 3136.1441 | 2889.0389 | 28.4551 | 282.0852 | 0.0790 |
| Tarrant | 2275060012 | 16.7153 | 88.0154 | 66.0107 | 1.0869 | 7.0606 | 0.0000 |
| Tarrant | 2275050011 | 39.1437 | 2.3394 | 2083.3415 | 1.0007 | 1.9122 | 1.2302 |
| Tarrant | 2275050012 | 198.4897 | 233.4482 | 556.1221 | 3.6096 | 25.4783 | 0.0000 |
| Tarrant | 2275001000 | 63.4495 | 124.4496 | 364.9921 | 1.2577 | 14.0479 | 0.0188 |
| Tarrant | 2275070000 | 9.3550 | 106.3784 | 149.6624 | 15.2267 | 16.7874 | 0.0000 |
| Tarrant | 2265008005 | 20.0632 | 40.7055 | 699.8873 | 0.0000 | 0.0000 | 0.0000 |
| Tarrant | 2270008005 | 5.4796 | 37.2530 | 10.8807 | 0.9892 | 0.0000 | 0.0000 |
| Taylor | 2275020000 | 9.2592 | 35.8642 | 32.7221 | 0.1988 | 3.1818 | 0.0019 |
| Taylor | 2275060012 | 0.7492 | 3.4204 | 2.1095 | 0.0358 | 0.2505 | 0.0000 |
| Taylor | 2275050011 | 2.7380 | 0.1663 | 141.4826 | 0.0898 | 0.1374 | 0.0833 |
| Taylor | 2275050012 | 9.1471 | 5.3542 | 23.5962 | 0.1223 | 0.7677 | 0.0000 |
| Taylor | 2275001000 | 11.9467 | 17.8601 | 63.2627 | 0.2274 | 2.6034 | 0.0006 |
| Taylor | 2275070000 | 0.0640 | 0.6464 | 1.8655 | 0.0959 | 0.1615 | 0.0000 |
| Taylor | 2265008005 | 0.5425 | 1.3276 | 20.7876 | 0.0000 | 0.0000 | 0.0000 |
| Taylor | 2270008005 | 0.0475 | 0.4064 | 0.0568 | 0.0028 | 0.0000 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|--------------|------------|---------|----------|----------|----------------|---------|--------|
| Terrell | 2275050011 | 0.0514 | 0.0021 | 3.1176 | 0.0022 | 0.0031 | 0.0018 |
| Terrell | 2275050012 | 0.0126 | 0.0009 | 0.0291 | 0.0001 | 0.0003 | 0.0000 |
| Terry | 2275020000 | 0.4070 | 0.0798 | 1.7684 | 0.0040 | 0.0262 | 0.0000 |
| Terry | 2275050011 | 0.6569 | 0.0239 | 33.7803 | 0.0174 | 0.0346 | 0.0209 |
| Terry | 2275050012 | 1.7996 | 0.6782 | 4.3475 | 0.0186 | 0.1260 | 0.0000 |
| Terry | 2275001000 | 0.0391 | 0.6762 | 0.2318 | 0.0075 | 0.0422 | 0.0000 |
| Throckmorton | 2275020000 | 0.0052 | 0.0016 | 0.0195 | 0.0001 | 0.0004 | 0.0000 |
| Throckmorton | 2275050011 | 0.0031 | 0.0001 | 0.1770 | 0.0001 | 0.0002 | 0.0001 |
| Throckmorton | 2275050012 | 0.0416 | 0.0178 | 0.0952 | 0.0004 | 0.0029 | 0.0000 |
| Throckmorton | 2275001000 | 0.0007 | 0.0395 | 0.0066 | 0.0004 | 0.0022 | 0.0000 |
| Titus | 2275020000 | 0.3965 | 0.2491 | 11.5975 | 0.0073 | 0.0456 | 0.0060 |
| Titus | 2275060012 | 0.0154 | 0.8750 | 0.1729 | 0.0097 | 0.0508 | 0.0000 |
| Titus | 2275050011 | 1.8619 | 0.1112 | 102.0990 | 0.0569 | 0.1059 | 0.0581 |
| Titus | 2275050012 | 26.1234 | 4.1651 | 65.9086 | 0.2428 | 1.1302 | 0.0000 |
| Titus | 2275001000 | 0.0078 | 0.0105 | 0.4375 | 0.0000 | 0.0032 | 0.0003 |
| Tom Green | 2275020000 | 12.6825 | 42.3894 | 49.5656 | 0.2847 | 3.9079 | 0.0040 |
| Tom Green | 2275060012 | 0.3589 | 4.7014 | 1.5625 | 0.0523 | 0.2861 | 0.0000 |
| Tom Green | 2275050011 | 1.5147 | 0.1117 | 71.7681 | 0.0378 | 0.0710 | 0.0405 |
| Tom Green | 2275050012 | 16.2077 | 9.6118 | 42.8438 | 0.2050 | 1.2534 | 0.0000 |
| Tom Green | 2275001000 | 20.3139 | 3.8532 | 89.2211 | 0.2385 | 1.2731 | 0.0005 |
| Tom Green | 2275070000 | 0.0801 | 0.8320 | 1.9119 | 0.1199 | 0.1928 | 0.0000 |
| Tom Green | 2265008005 | 0.7518 | 1.8388 | 28.9901 | 0.0000 | 0.0000 | 0.0000 |
| Tom Green | 2270008005 | 0.2270 | 2.0646 | 0.4926 | 0.0798 | 0.0000 | 0.0000 |
| Travis | 2275020000 | 77.8174 | 495.0554 | 511.6040 | 3.5512 | 45.3300 | 0.0385 |
| Travis | 2275060012 | 3.5353 | 17.1033 | 14.8650 | 0.2245 | 1.5382 | 0.0000 |
| Travis | 2275050011 | 7.4725 | 0.3958 | 376.8005 | 0.1762 | 0.4015 | 0.2087 |
| Travis | 2275050012 | 41.9743 | 38.5956 | 117.4135 | 0.7462 | 4.6992 | 0.0000 |
| Travis | 2275001000 | 6.8355 | 17.4317 | 36.0937 | 0.1378 | 2.3946 | 0.0025 |
| Travis | 2275070000 | 1.6474 | 19.8653 | 21.1030 | 2.2579 | 3.1563 | 0.0000 |
| Travis | 2265008005 | 4.1596 | 7.9895 | 141.0041 | 0.0000 | 0.0000 | 0.0000 |
| Travis | 2270008005 | 1.0392 | 6.8781 | 2.0624 | 0.0426 | 0.0000 | 0.0000 |
| Trinity | 2275020000 | 0.2761 | 0.0840 | 1.5729 | 0.0031 | 0.0253 | 0.0000 |
| Trinity | 2275050011 | 0.3018 | 0.0079 | 15.8009 | 0.0086 | 0.0145 | 0.0089 |
| Trinity | 2275050012 | 0.5368 | 0.2978 | 1.3771 | 0.0053 | 0.0510 | 0.0000 |
| Trinity | 2275001000 | 0.0182 | 1.1697 | 0.1901 | 0.0131 | 0.0661 | 0.0000 |
| Tyler | 2275020000 | 0.2671 | 0.0707 | 1.5260 | 0.0026 | 0.0228 | 0.0000 |
| Tyler | 2275050011 | 0.1172 | 0.0043 | 7.8801 | 0.0050 | 0.0081 | 0.0047 |
| Tyler | 2275050012 | 0.1784 | 0.0715 | 0.3523 | 0.0014 | 0.0123 | 0.0000 |
| Upshur | 2275020000 | 0.0626 | 0.0138 | 5.0200 | 0.0009 | 0.0102 | 0.0032 |
| Upshur | 2275050011 | 4.7036 | 0.8042 | 131.3888 | 0.0865 | 0.2166 | 0.0728 |
| Upshur | 2275050012 | 1.8053 | 1.5661 | 7.8365 | 0.0197 | 0.2586 | 0.0000 |
| Upton | 2275020000 | 0.0242 | 0.0097 | 0.1423 | 0.0004 | 0.0027 | 0.0000 |
| Upton | 2275050011 | 0.0143 | 0.0003 | 0.8023 | 0.0004 | 0.0008 | 0.0004 |
| Upton | 2275050012 | 0.1822 | 0.0686 | 0.4574 | 0.0016 | 0.0133 | 0.0000 |
| Upton | 2275001000 | 0.0014 | 0.0560 | 0.0098 | 0.0006 | 0.0032 | 0.0000 |
| Uvalde | 2275020000 | 1.0777 | 0.2463 | 2.8075 | 0.0097 | 0.0494 | 0.0004 |
| Uvalde | 2275060012 | 0.4581 | 2.0257 | 1.4322 | 0.0278 | 0.1417 | 0.0000 |
| Uvalde | 2275050011 | 0.8000 | 0.0362 | 42.2344 | 0.0271 | 0.0451 | 0.0232 |
| Uvalde | 2275050012 | 9.0633 | 3.3195 | 22.4512 | 0.1094 | 0.5856 | 0.0000 |
| Uvalde | 2275001000 | 0.5106 | 0.0635 | 1.2654 | 0.0048 | 0.0172 | 0.0000 |
| Val Verde | 2275020000 | 11.6487 | 18.5773 | 36.7927 | 0.1925 | 2.0080 | 0.0008 |
| Val Verde | 2275060012 | 0.0363 | 0.4484 | 0.2171 | 0.0052 | 0.0327 | 0.0000 |
| Val Verde | 2275050011 | 0.4551 | 0.0154 | 23.4673 | 0.0133 | 0.0228 | 0.0131 |
| Val Verde | 2275050012 | 4.2641 | 2.6794 | 13.7608 | 0.0628 | 0.4121 | 0.0000 |
| Val Verde | 2275001000 | 53.6148 | 9.5580 | 303.4552 | 0.5813 | 3.6221 | 0.0001 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|------------|------------|---------|----------|----------|----------------|---------|--------|
| Val Verde | 2275070000 | 0.0210 | 0.1875 | 0.5965 | 0.0300 | 0.0460 | 0.0000 |
| Val Verde | 2265008005 | 0.2240 | 0.5452 | 8.6346 | 0.0000 | 0.0000 | 0.0000 |
| Val Verde | 2270008005 | 0.0941 | 0.8634 | 0.2147 | 0.0361 | 0.0000 | 0.0000 |
| Van Zandt | 2275020000 | 0.0274 | 0.0103 | 0.1586 | 0.0004 | 0.0030 | 0.0000 |
| Van Zandt | 2275050011 | 0.6420 | 0.0193 | 32.3230 | 0.0197 | 0.0308 | 0.0184 |
| Van Zandt | 2275050012 | 0.1538 | 0.1232 | 0.3529 | 0.0011 | 0.0184 | 0.0000 |
| Van Zandt | 2275001000 | 0.0026 | 0.1877 | 0.0275 | 0.0021 | 0.0105 | 0.0000 |
| Victoria | 2275020000 | 5.0213 | 1.6665 | 20.2659 | 0.0649 | 0.3630 | 0.0017 |
| Victoria | 2275060012 | 0.3297 | 3.9833 | 1.4336 | 0.0508 | 0.2634 | 0.0000 |
| Victoria | 2275050011 | 0.4078 | 0.0157 | 22.1791 | 0.0126 | 0.0210 | 0.0121 |
| Victoria | 2275050012 | 7.9289 | 10.4449 | 25.7820 | 0.1689 | 1.1338 | 0.0000 |
| Victoria | 2275001000 | 15.7179 | 2.7208 | 56.5645 | 0.1442 | 0.8897 | 0.0003 |
| Victoria | 2275070000 | 0.0259 | 0.4562 | 1.4362 | 0.0657 | 0.0914 | 0.0000 |
| Victoria | 2265008005 | 0.2829 | 0.7792 | 11.9956 | 0.0000 | 0.0000 | 0.0000 |
| Victoria | 2270008005 | 0.1379 | 0.8568 | 0.2319 | 0.0291 | 0.0000 | 0.0000 |
| Walker | 2275020000 | 1.0769 | 0.2200 | 3.8087 | 0.0096 | 0.0629 | 0.0000 |
| Walker | 2275060012 | 2.4670 | 13.3692 | 7.5578 | 0.1651 | 0.9155 | 0.0000 |
| Walker | 2275050011 | 1.3595 | 0.0576 | 81.7141 | 0.0430 | 0.0845 | 0.0467 |
| Walker | 2275050012 | 16.5464 | 5.4978 | 47.6511 | 0.1720 | 1.0926 | 0.0000 |
| Walker | 2275001000 | 0.2785 | 0.0950 | 2.1168 | 0.0024 | 0.0254 | 0.0002 |
| Waller | 2275020000 | 1.7124 | 1.3470 | 8.8733 | 0.0254 | 0.1868 | 0.0019 |
| Waller | 2275060012 | 0.8767 | 4.1353 | 2.8976 | 0.0556 | 0.3093 | 0.0000 |
| Waller | 2275050011 | 2.4881 | 0.0923 | 136.5985 | 0.0840 | 0.1207 | 0.0790 |
| Waller | 2275050012 | 7.8071 | 6.0891 | 24.6729 | 0.1246 | 0.7970 | 0.0000 |
| Waller | 2275001000 | 0.2058 | 0.0334 | 1.9661 | 0.0028 | 0.0118 | 0.0007 |
| Ward | 2275020000 | 0.8735 | 0.6555 | 5.3699 | 0.0120 | 0.1388 | 0.0000 |
| Ward | 2275050011 | 0.2784 | 0.0070 | 14.4820 | 0.0070 | 0.0129 | 0.0083 |
| Ward | 2275050012 | 1.3566 | 0.5784 | 3.4526 | 0.0122 | 0.1090 | 0.0000 |
| Ward | 2275001000 | 0.1022 | 0.6807 | 1.3298 | 0.0046 | 0.0899 | 0.0000 |
| Washington | 2275020000 | 4.5103 | 0.9347 | 12.9066 | 0.0382 | 0.2148 | 0.0012 |
| Washington | 2275060012 | 1.3825 | 7.4730 | 4.9464 | 0.0846 | 0.5411 | 0.0000 |
| Washington | 2275050011 | 1.7060 | 0.0818 | 93.0616 | 0.0443 | 0.0989 | 0.0514 |
| Washington | 2275050012 | 10.9051 | 6.3857 | 29.8368 | 0.1180 | 0.9721 | 0.0000 |
| Washington | 2275001000 | 0.0210 | 0.0746 | 0.2357 | 0.0000 | 0.0164 | 0.0000 |
| Webb | 2275020000 | 31.7920 | 126.6753 | 112.2233 | 1.5886 | 12.0397 | 0.0010 |
| Webb | 2275060012 | 0.5114 | 2.2897 | 1.5931 | 0.0316 | 0.1696 | 0.0000 |
| Webb | 2275050011 | 0.8200 | 0.0221 | 44.0960 | 0.0289 | 0.0397 | 0.0252 |
| Webb | 2275050012 | 25.2808 | 23.2387 | 72.2328 | 0.4465 | 3.0173 | 0.0000 |
| Webb | 2275001000 | 2.4591 | 1.4847 | 7.8609 | 0.0304 | 0.2248 | 0.0001 |
| Webb | 2275070000 | 0.3663 | 3.6989 | 6.5095 | 0.5868 | 0.6772 | 0.0000 |
| Webb | 2265008005 | 1.1424 | 2.4683 | 40.8201 | 0.0000 | 0.0000 | 0.0000 |
| Webb | 2270008005 | 0.2663 | 1.9270 | 0.5116 | 0.0526 | 0.0000 | 0.0000 |
| Wharton | 2275020000 | 0.4563 | 0.2051 | 0.9760 | 0.0057 | 0.0339 | 0.0000 |
| Wharton | 2275060012 | 0.0752 | 1.0533 | 0.3340 | 0.0119 | 0.0635 | 0.0000 |
| Wharton | 2275050011 | 1.9168 | 0.0712 | 99.1442 | 0.0618 | 0.0939 | 0.0575 |
| Wharton | 2275050012 | 3.4133 | 1.5174 | 9.2823 | 0.0351 | 0.2257 | 0.0000 |
| Wharton | 2275001000 | 0.0171 | 0.0549 | 0.2739 | 0.0002 | 0.0114 | 0.0001 |
| Wheeler | 2275020000 | 0.1106 | 0.0366 | 0.5898 | 0.0010 | 0.0099 | 0.0000 |
| Wheeler | 2275050011 | 0.0595 | 0.0025 | 3.1642 | 0.0019 | 0.0032 | 0.0019 |
| Wheeler | 2275050012 | 0.4045 | 0.2179 | 0.9399 | 0.0037 | 0.0408 | 0.0000 |
| Wheeler | 2275001000 | 0.0111 | 0.3846 | 0.0971 | 0.0044 | 0.0219 | 0.0000 |
| Wichita | 2275020000 | 22.3606 | 32.8874 | 88.4361 | 0.3104 | 3.4141 | 0.0146 |
| Wichita | 2275060012 | 5.9848 | 3.8095 | 13.8612 | 0.0906 | 0.3561 | 0.0000 |
| Wichita | 2275050011 | 2.8980 | 0.0909 | 148.2391 | 0.0741 | 0.1481 | 0.0843 |
| Wichita | 2275050012 | 18.2717 | 6.9403 | 47.8626 | 0.1979 | 1.2452 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|------------|------------|----------|---------|-----------|----------------|---------|--------|
| Wichita | 2275001000 | 315.7348 | 64.5462 | 2115.1125 | 3.1617 | 26.0016 | 0.0063 |
| Wichita | 2275070000 | 0.0318 | 0.2828 | 0.6501 | 0.0426 | 0.0667 | 0.0000 |
| Wichita | 2265008005 | 0.3196 | 0.7801 | 18.1778 | 0.0000 | 0.0000 | 0.0000 |
| Wichita | 2270008005 | 4.5162 | 43.7350 | 12.0264 | 2.2525 | 0.0000 | 0.0000 |
| Wilbarger | 2275020000 | 0.1597 | 0.0281 | 1.4875 | 0.0011 | 0.0100 | 0.0006 |
| Wilbarger | 2275060012 | 0.0689 | 0.8626 | 0.2575 | 0.0102 | 0.0493 | 0.0000 |
| Wilbarger | 2275050011 | 0.6075 | 0.0567 | 31.0058 | 0.0182 | 0.0347 | 0.0172 |
| Wilbarger | 2275050012 | 3.6073 | 1.8690 | 11.3615 | 0.0352 | 0.3234 | 0.0000 |
| Wilbarger | 2275001000 | 0.0076 | 0.0106 | 0.2521 | 0.0000 | 0.0025 | 0.0001 |
| Willacy | 2275020000 | 0.0452 | 0.0217 | 0.2605 | 0.0008 | 0.0053 | 0.0000 |
| Willacy | 2275050011 | 0.0712 | 0.0026 | 3.9264 | 0.0026 | 0.0037 | 0.0023 |
| Willacy | 2275050012 | 0.1192 | 0.0596 | 0.2831 | 0.0014 | 0.0092 | 0.0000 |
| Willacy | 2275001000 | 0.0027 | 0.1958 | 0.0290 | 0.0022 | 0.0110 | 0.0000 |
| Williamson | 2275020000 | 10.4466 | 1.6828 | 66.3540 | 0.0897 | 0.4921 | 0.0251 |
| Williamson | 2275060012 | 0.7376 | 3.8090 | 2.3562 | 0.0543 | 0.2761 | 0.0000 |
| Williamson | 2275050011 | 10.5439 | 0.8631 | 598.6065 | 0.2471 | 0.4763 | 0.3612 |
| Williamson | 2275050012 | 36.5341 | 9.8266 | 90.8811 | 0.3196 | 2.0072 | 0.0000 |
| Williamson | 2275001000 | 0.5985 | 0.1156 | 8.8243 | 0.0050 | 0.0367 | 0.0035 |
| Williamson | 2275070000 | 0.0201 | 0.3180 | 1.3684 | 0.0481 | 0.0720 | 0.0000 |
| Williamson | 2265008005 | 0.3493 | 0.9216 | 14.1915 | 0.0000 | 0.0000 | 0.0000 |
| Williamson | 2270008005 | 0.0782 | 0.3395 | 0.0796 | 0.0014 | 0.0000 | 0.0000 |
| Wilson | 2275050011 | 0.2275 | 0.0083 | 11.1258 | 0.0071 | 0.0104 | 0.0065 |
| Wilson | 2275050012 | 0.0347 | 0.0018 | 0.0781 | 0.0002 | 0.0008 | 0.0000 |
| Winkler | 2275020000 | 0.2141 | 0.0860 | 1.2567 | 0.0032 | 0.0238 | 0.0000 |
| Winkler | 2275050011 | 0.0991 | 0.0018 | 5.4289 | 0.0025 | 0.0052 | 0.0030 |
| Winkler | 2275050012 | 1.6029 | 0.6448 | 4.0382 | 0.0144 | 0.1226 | 0.0000 |
| Winkler | 2275001000 | 0.0126 | 0.4945 | 0.0863 | 0.0056 | 0.0279 | 0.0000 |
| Wise | 2275020000 | 0.4772 | 0.0457 | 5.0096 | 0.0045 | 0.0146 | 0.0023 |
| Wise | 2275060012 | 0.5446 | 0.0704 | 0.8967 | 0.0043 | 0.0187 | 0.0000 |
| Wise | 2275050011 | 5.0728 | 0.2815 | 283.1712 | 0.1475 | 0.3208 | 0.1634 |
| Wise | 2275050012 | 3.9972 | 3.5125 | 14.3543 | 0.0466 | 0.5948 | 0.0000 |
| Wise | 2275001000 | 0.4951 | 0.0898 | 28.2426 | 0.0004 | 0.0506 | 0.0174 |
| Wood | 2275020000 | 0.2280 | 0.0605 | 7.5162 | 0.0018 | 0.0277 | 0.0044 |
| Wood | 2275050011 | 5.0007 | 0.1450 | 268.8971 | 0.1466 | 0.2540 | 0.1523 |
| Wood | 2275050012 | 1.7697 | 0.5136 | 5.8194 | 0.0153 | 0.1212 | 0.0000 |
| Wood | 2275001000 | 0.1191 | 0.4122 | 0.7525 | 0.0051 | 0.0337 | 0.0000 |
| Yoakum | 2275020000 | 0.2907 | 0.0570 | 1.2632 | 0.0029 | 0.0187 | 0.0000 |
| Yoakum | 2275050011 | 0.4692 | 0.0171 | 24.1288 | 0.0124 | 0.0247 | 0.0149 |
| Yoakum | 2275050012 | 1.2847 | 0.4564 | 3.0953 | 0.0133 | 0.0864 | 0.0000 |
| Yoakum | 2275001000 | 0.0279 | 0.4830 | 0.1655 | 0.0054 | 0.0302 | 0.0000 |
| Young | 2275020000 | 0.9765 | 0.2880 | 4.0443 | 0.0160 | 0.0725 | 0.0003 |
| Young | 2275060012 | 0.0800 | 3.7820 | 0.7009 | 0.0423 | 0.2157 | 0.0000 |
| Young | 2275050011 | 0.7616 | 0.1060 | 42.2805 | 0.0202 | 0.0630 | 0.0239 |
| Young | 2275050012 | 12.8516 | 4.0574 | 33.6625 | 0.1295 | 0.8393 | 0.0000 |
| Young | 2275001000 | 0.0938 | 3.6508 | 2.1171 | 0.0409 | 0.2087 | 0.0009 |
| Zapata | 2275020000 | 0.2260 | 0.1485 | 1.2163 | 0.0068 | 0.0345 | 0.0000 |
| Zapata | 2275050011 | 0.2816 | 0.0127 | 16.1638 | 0.0092 | 0.0168 | 0.0099 |
| Zapata | 2275050012 | 1.0157 | 0.3127 | 2.1578 | 0.0088 | 0.0600 | 0.0000 |
| Zapata | 2275001000 | 0.0062 | 0.4480 | 0.0656 | 0.0050 | 0.0250 | 0.0000 |
| Zavala | 2275050011 | 0.1951 | 0.0067 | 8.0334 | 0.0050 | 0.0076 | 0.0047 |
| Zavala | 2275050012 | 0.0004 | 0.0000 | 0.0009 | 0.0000 | 0.0000 | 0.0000 |

*SCC represents the following categories: 2275020000: Commercial Aviation, 2275060012: Air taxi: Turbine Driven, 2275050011: General Aviation: Piston Driven, 2275050012: General Aviation: Turbine Driven, 2275001000: Military, 2275070000: APUs, 2270008005: GSE: Diesel-fueled, 2265008005: GSE: Gasoline-fueled. Summer weekday emissions were obtained by dividing the annual emissions by 365 days.

APPENDIX F: CONTROLLED 2020 ANNUAL AND DAILY COUNTY- LEVEL EMISSIONS FOR TEXAS

Controlled 2020 Annual County-Level Emissions by Criteria Pollutant (tons/year).

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Anderson | 2275020000 | 0.7393 | 0.3088 | 3.6269 | 0.0087 | 0.0604 | 0.0006 |
| Anderson | 2275060012 | 0.1950 | 5.2203 | 1.1073 | 0.0594 | 0.2969 | 0.0000 |
| Anderson | 2275050011 | 0.8265 | 0.0684 | 38.6055 | 0.0223 | 0.0454 | 0.0217 |
| Anderson | 2275050012 | 5.8766 | 3.7511 | 19.4369 | 0.0852 | 0.5762 | 0.0000 |
| Anderson | 2275001000 | 0.0347 | 0.0678 | 0.3713 | 0.0003 | 0.0098 | 0.0000 |
| Andrews | 2275020000 | 0.1301 | 0.0641 | 0.5580 | 0.0011 | 0.0154 | 0.0000 |
| Andrews | 2275060012 | 0.0228 | 0.0017 | 0.0527 | 0.0002 | 0.0005 | 0.0000 |
| Andrews | 2275050011 | 0.2273 | 0.0082 | 11.4596 | 0.0058 | 0.0118 | 0.0065 |
| Andrews | 2275050012 | 1.7871 | 1.5150 | 8.3769 | 0.0227 | 0.2621 | 0.0000 |
| Andrews | 2275001000 | 0.0006 | 0.0067 | 0.0091 | 0.0000 | 0.0014 | 0.0000 |
| Angelina | 2275020000 | 0.2805 | 0.2457 | 4.1954 | 0.0035 | 0.0443 | 0.0019 |
| Angelina | 2275060012 | 0.1558 | 0.0807 | 0.3275 | 0.0015 | 0.0134 | 0.0000 |
| Angelina | 2275050011 | 1.9746 | 0.0588 | 98.1467 | 0.0508 | 0.0898 | 0.0536 |
| Angelina | 2275050012 | 6.5182 | 14.0335 | 24.7977 | 0.1925 | 1.2117 | 0.0000 |
| Angelina | 2275001000 | 0.7756 | 0.1701 | 3.9081 | 0.0068 | 0.0536 | 0.0003 |
| Aransas | 2275020000 | 4.8661 | 0.9241 | 9.6751 | 0.0397 | 0.1891 | 0.0004 |
| Aransas | 2275060012 | 1.3625 | 10.9177 | 4.8975 | 0.1265 | 0.6913 | 0.0000 |
| Aransas | 2275050011 | 3.0095 | 0.1303 | 160.7636 | 0.0827 | 0.1721 | 0.0908 |
| Aransas | 2275050012 | 19.7527 | 27.2409 | 59.3845 | 0.4608 | 2.4709 | 0.0000 |
| Aransas | 2275001000 | 1.5145 | 0.6574 | 5.4010 | 0.0145 | 0.1528 | 0.0001 |
| Archer | 2275050011 | 0.2126 | 0.0075 | 9.2401 | 0.0059 | 0.0088 | 0.0054 |
| Archer | 2275050012 | 0.0064 | 0.0005 | 0.0147 | 0.0001 | 0.0002 | 0.0000 |
| Armstrong | 2275050011 | 0.0784 | 0.0028 | 3.6671 | 0.0023 | 0.0034 | 0.0021 |
| Armstrong | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Atascosa | 2275020000 | 0.2270 | 0.0508 | 1.3480 | 0.0020 | 0.0167 | 0.0002 |
| Atascosa | 2275050011 | 1.1684 | 0.0104 | 58.1761 | 0.0356 | 0.0482 | 0.0309 |
| Atascosa | 2275050012 | 2.9642 | 1.7901 | 8.4677 | 0.0354 | 0.2566 | 0.0000 |
| Atascosa | 2275001000 | 0.3388 | 0.1309 | 1.5991 | 0.0030 | 0.0347 | 0.0000 |
| Austin | 2275050011 | 0.3839 | 0.0141 | 18.7612 | 0.0121 | 0.0177 | 0.0109 |
| Austin | 2275050012 | 0.0538 | 0.0306 | 0.1298 | 0.0004 | 0.0047 | 0.0000 |
| Bailey | 2275020000 | 0.1938 | 0.0380 | 0.8421 | 0.0019 | 0.0125 | 0.0000 |
| Bailey | 2275050011 | 1.3875 | 0.0524 | 74.8584 | 0.0464 | 0.0714 | 0.0441 |
| Bailey | 2275050012 | 1.1414 | 0.3192 | 2.7052 | 0.0107 | 0.0641 | 0.0000 |
| Bailey | 2275001000 | 0.0186 | 0.3220 | 0.1104 | 0.0036 | 0.0201 | 0.0000 |
| Bandera | 2275050011 | 0.3500 | 0.0124 | 15.8671 | 0.0101 | 0.0149 | 0.0093 |
| Bandera | 2275050012 | 0.0298 | 0.0292 | 0.0754 | 0.0002 | 0.0041 | 0.0000 |
| Bastrop | 2275050011 | 2.2743 | 0.1148 | 114.5822 | 0.0665 | 0.1400 | 0.0721 |
| Bastrop | 2275050012 | 0.7664 | 0.2639 | 2.0978 | 0.0073 | 0.0675 | 0.0000 |
| Bastrop | 2275001000 | 0.9735 | 0.0942 | 2.2923 | 0.0079 | 0.0298 | 0.0000 |
| Baylor | 2275020000 | 0.2661 | 0.0836 | 0.9921 | 0.0053 | 0.0211 | 0.0000 |
| Baylor | 2275050011 | 0.1585 | 0.0053 | 8.9848 | 0.0039 | 0.0096 | 0.0050 |
| Baylor | 2275050012 | 2.1121 | 0.9013 | 4.8324 | 0.0211 | 0.1460 | 0.0000 |
| Baylor | 2275001000 | 0.0334 | 2.0073 | 0.3345 | 0.0225 | 0.1137 | 0.0000 |
| Bee | 2275020000 | 0.3540 | 0.0549 | 0.9094 | 0.0032 | 0.0148 | 0.0001 |
| Bee | 2275060012 | 0.0818 | 0.0372 | 0.1706 | 0.0008 | 0.0055 | 0.0000 |
| Bee | 2275050011 | 0.1461 | 0.0041 | 7.8937 | 0.0039 | 0.0081 | 0.0043 |
| Bee | 2275050012 | 0.9699 | 2.1827 | 4.0001 | 0.0277 | 0.2030 | 0.0000 |
| Bee | 2275001000 | 0.1794 | 0.1877 | 0.6261 | 0.0015 | 0.0402 | 0.0000 |
| Bell | 2275020000 | 17.0802 | 54.5844 | 74.0493 | 0.4598 | 5.4472 | 0.0019 |
| Bell | 2275060012 | 1.7980 | 17.4147 | 7.9483 | 0.2167 | 1.1376 | 0.0000 |
| Bell | 2275050011 | 5.0763 | 0.4059 | 266.1086 | 0.1375 | 0.2613 | 0.1551 |
| Bell | 2275050012 | 23.5234 | 18.1290 | 66.0035 | 0.3505 | 2.2265 | 0.0000 |
| Bell | 2275001000 | 14.1853 | 4.3968 | 43.8767 | 0.1190 | 0.7673 | 0.0002 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Bell | 2275070000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Bell | 2265008005 | 0.1042 | 0.2623 | 4.0848 | 0.0000 | 0.0000 | 0.0000 |
| Bell | 2270008005 | 0.0212 | 0.1168 | 0.0240 | 0.0023 | 0.0000 | 0.0000 |
| Bexar | 2275020000 | 51.6970 | 356.0245 | 322.3607 | 2.6818 | 31.3885 | 0.0368 |
| Bexar | 2275060012 | 2.4110 | 12.1154 | 9.9341 | 0.1411 | 1.1144 | 0.0000 |
| Bexar | 2275050011 | 13.3312 | 0.6986 | 724.3511 | 0.4317 | 0.7960 | 0.4178 |
| Bexar | 2275050012 | 48.1312 | 46.0626 | 150.5707 | 0.8096 | 5.7210 | 0.0000 |
| Bexar | 2275001000 | 64.0372 | 32.1396 | 379.4614 | 0.7498 | 7.1150 | 0.0039 |
| Bexar | 2275070000 | 1.4767 | 14.8747 | 18.6923 | 1.7519 | 2.3982 | 0.0000 |
| Bexar | 2265008005 | 3.3255 | 6.6439 | 115.0182 | 0.0000 | 0.0000 | 0.0000 |
| Bexar | 2270008005 | 0.8907 | 5.9717 | 1.7628 | 0.0754 | 0.0000 | 0.0000 |
| Blanco | 2275050011 | 3.1170 | 0.1072 | 128.7738 | 0.0808 | 0.1211 | 0.0752 |
| Blanco | 2275050012 | 0.0149 | 0.0008 | 0.0335 | 0.0001 | 0.0003 | 0.0000 |
| Bosque | 2275020000 | 0.7581 | 0.1690 | 3.8244 | 0.0071 | 0.0546 | 0.0000 |
| Bosque | 2275050011 | 0.6052 | 0.0761 | 32.4725 | 0.0187 | 0.0448 | 0.0278 |
| Bosque | 2275050012 | 1.0573 | 0.4256 | 2.5823 | 0.0092 | 0.0961 | 0.0000 |
| Bosque | 2275001000 | 0.0642 | 4.2718 | 0.6989 | 0.0478 | 0.2418 | 0.0000 |
| Bowie | 2275050011 | 0.0784 | 0.0030 | 4.2860 | 0.0028 | 0.0040 | 0.0025 |
| Bowie | 2275050012 | 0.0228 | 0.0766 | 0.0738 | 0.0001 | 0.0100 | 0.0000 |
| Brazoria | 2275020000 | 4.7277 | 1.0941 | 54.9028 | 0.0505 | 0.2860 | 0.0287 |
| Brazoria | 2275060012 | 0.7491 | 4.1484 | 2.3063 | 0.0530 | 0.2921 | 0.0000 |
| Brazoria | 2275050011 | 14.8347 | 0.7384 | 777.2265 | 0.3874 | 0.7608 | 0.4470 |
| Brazoria | 2275050012 | 66.1779 | 19.7081 | 147.8361 | 0.7758 | 4.3229 | 0.0000 |
| Brazoria | 2275001000 | 0.3108 | 0.6010 | 3.0019 | 0.0095 | 0.1271 | 0.0000 |
| Brazoria | 2275070000 | 0.0880 | 0.8589 | 4.6749 | 0.1169 | 0.2128 | 0.0000 |
| Brazoria | 2265008005 | 0.4649 | 1.1133 | 17.7066 | 0.0000 | 0.0000 | 0.0000 |
| Brazoria | 2270008005 | 0.1054 | 0.6396 | 0.1353 | 0.0256 | 0.0000 | 0.0000 |
| Brazos | 2275020000 | 12.4746 | 33.2084 | 44.9869 | 0.3426 | 3.2303 | 0.0047 |
| Brazos | 2275060012 | 1.2819 | 8.3613 | 4.3720 | 0.0989 | 0.5972 | 0.0000 |
| Brazos | 2275050011 | 3.4480 | 0.1889 | 180.0998 | 0.0962 | 0.1768 | 0.1024 |
| Brazos | 2275050012 | 15.0345 | 14.8825 | 50.8095 | 0.2557 | 1.8687 | 0.0000 |
| Brazos | 2275001000 | 8.4871 | 1.4159 | 25.1139 | 0.0850 | 0.4086 | 0.0006 |
| Brazos | 2275070000 | 0.1087 | 1.1599 | 3.2922 | 0.1736 | 0.2656 | 0.0000 |
| Brazos | 2265008005 | 0.5405 | 1.3043 | 20.6055 | 0.0000 | 0.0000 | 0.0000 |
| Brazos | 2270008005 | 0.0673 | 0.4877 | 0.0857 | 0.0064 | 0.0000 | 0.0000 |
| Brewster | 2275020000 | 0.6961 | 0.4042 | 2.2643 | 0.0060 | 0.0808 | 0.0002 |
| Brewster | 2275060012 | 0.4363 | 2.3311 | 1.2603 | 0.0268 | 0.1597 | 0.0000 |
| Brewster | 2275050011 | 2.5184 | 0.1136 | 148.9440 | 0.1024 | 0.1474 | 0.0859 |
| Brewster | 2275050012 | 4.9102 | 3.6495 | 16.1488 | 0.0542 | 0.6067 | 0.0000 |
| Brewster | 2275001000 | 0.0184 | 0.0124 | 0.1066 | 0.0003 | 0.0027 | 0.0000 |
| Briscoe | 2275050011 | 0.0008 | 0.0000 | 0.0388 | 0.0000 | 0.0000 | 0.0000 |
| Briscoe | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Brooks | 2275020000 | 0.4581 | 0.5253 | 1.8228 | 0.0135 | 0.0813 | 0.0000 |
| Brooks | 2275060012 | 0.8506 | 5.1432 | 3.8559 | 0.0647 | 0.3914 | 0.0000 |
| Brooks | 2275050011 | 0.1812 | 0.0040 | 8.6333 | 0.0053 | 0.0080 | 0.0048 |
| Brooks | 2275050012 | 4.0270 | 6.1662 | 12.0765 | 0.1247 | 0.6405 | 0.0000 |
| Brooks | 2275001000 | 0.1657 | 0.2923 | 1.0353 | 0.0013 | 0.0639 | 0.0000 |
| Brown | 2275020000 | 0.5332 | 0.1579 | 2.7464 | 0.0052 | 0.0386 | 0.0005 |
| Brown | 2275060012 | 0.1424 | 1.3867 | 0.7074 | 0.0154 | 0.0949 | 0.0000 |
| Brown | 2275050011 | 0.8176 | 0.0233 | 39.8016 | 0.0207 | 0.0393 | 0.0222 |
| Brown | 2275050012 | 5.1072 | 1.8129 | 15.4577 | 0.0570 | 0.3509 | 0.0000 |
| Brown | 2275001000 | 0.3170 | 0.1083 | 1.5895 | 0.0035 | 0.0302 | 0.0000 |
| Burleson | 2275020000 | 0.0151 | 0.1302 | 0.2180 | 0.0000 | 0.0303 | 0.0000 |
| Burleson | 2275050011 | 0.7013 | 0.0440 | 45.0401 | 0.0230 | 0.0547 | 0.0266 |
| Burleson | 2275050012 | 0.0473 | 0.2648 | 0.3854 | 0.0002 | 0.0523 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Burnet | 2275020000 | 0.8876 | 1.3673 | 6.4991 | 0.0178 | 0.1475 | 0.0017 |
| Burnet | 2275060012 | 0.5856 | 4.9096 | 2.0554 | 0.0567 | 0.3081 | 0.0000 |
| Burnet | 2275050011 | 3.7697 | 0.1054 | 220.6154 | 0.1272 | 0.2104 | 0.1184 |
| Burnet | 2275050012 | 12.4274 | 11.3424 | 39.3657 | 0.2036 | 1.2325 | 0.0000 |
| Burnet | 2275001000 | 0.1562 | 0.0594 | 1.5679 | 0.0014 | 0.0155 | 0.0004 |
| Caldwell | 2275020000 | 3.4745 | 4.5667 | 73.3858 | 0.0450 | 0.8612 | 0.0347 |
| Caldwell | 2275060012 | 1.0352 | 1.0073 | 2.1061 | 0.0168 | 0.1020 | 0.0000 |
| Caldwell | 2275050011 | 4.8928 | 0.3666 | 258.5828 | 0.1316 | 0.2922 | 0.1546 |
| Caldwell | 2275050012 | 30.7121 | 9.5421 | 71.0087 | 0.3225 | 1.8114 | 0.0000 |
| Caldwell | 2275001000 | 2.6850 | 0.3927 | 9.0980 | 0.0251 | 0.1271 | 0.0008 |
| Caldwell | 2275070000 | 0.0884 | 1.0730 | 4.9718 | 0.1664 | 0.2879 | 0.0000 |
| Caldwell | 2265008005 | 0.5008 | 1.1791 | 18.7196 | 0.0000 | 0.0000 | 0.0000 |
| Caldwell | 2270008005 | 0.0866 | 0.4865 | 0.0899 | 0.0024 | 0.0000 | 0.0000 |
| Calhoun | 2275020000 | 0.3404 | 0.0335 | 0.6800 | 0.0025 | 0.0097 | 0.0001 |
| Calhoun | 2275060012 | 0.1421 | 0.5372 | 0.3388 | 0.0067 | 0.0351 | 0.0000 |
| Calhoun | 2275050011 | 1.0124 | 0.0287 | 61.1233 | 0.0419 | 0.0582 | 0.0346 |
| Calhoun | 2275050012 | 5.0891 | 1.1987 | 12.5232 | 0.0455 | 0.2711 | 0.0000 |
| Calhoun | 2275001000 | 0.5741 | 0.4123 | 1.8902 | 0.0063 | 0.0856 | 0.0000 |
| Callahan | 2275050011 | 0.1450 | 0.0055 | 7.9316 | 0.0052 | 0.0074 | 0.0046 |
| Callahan | 2275050012 | 0.0385 | 0.0020 | 0.0866 | 0.0003 | 0.0009 | 0.0000 |
| Cameron | 2275020000 | 37.8067 | 177.2799 | 155.5344 | 1.6852 | 17.9126 | 0.0026 |
| Cameron | 2275060012 | 1.0092 | 10.6417 | 7.7822 | 0.1052 | 1.1272 | 0.0000 |
| Cameron | 2275050011 | 5.3685 | 0.3998 | 151.9895 | 0.0959 | 0.2209 | 0.0868 |
| Cameron | 2275050012 | 21.7994 | 16.2342 | 61.7470 | 0.3177 | 2.3356 | 0.0000 |
| Cameron | 2275001000 | 3.3201 | 4.0981 | 15.3300 | 0.0651 | 0.7695 | 0.0001 |
| Cameron | 2275070000 | 1.1506 | 6.2143 | 10.3534 | 0.9353 | 1.1032 | 0.0000 |
| Cameron | 2265008005 | 1.5047 | 3.1478 | 53.1793 | 0.0000 | 0.0000 | 0.0000 |
| Cameron | 2270008005 | 0.3827 | 2.6178 | 0.7579 | 0.0786 | 0.0000 | 0.0000 |
| Camp | 2275050011 | 0.0380 | 0.0014 | 2.0790 | 0.0014 | 0.0019 | 0.0012 |
| Camp | 2275050012 | 0.0111 | 0.0398 | 0.0367 | 0.0001 | 0.0052 | 0.0000 |
| Carson | 2275020000 | 0.3089 | 0.0840 | 1.7802 | 0.0030 | 0.0269 | 0.0000 |
| Carson | 2275050011 | 0.5511 | 0.0175 | 28.9953 | 0.0179 | 0.0269 | 0.0166 |
| Carson | 2275050012 | 0.6067 | 0.2059 | 1.6244 | 0.0049 | 0.0436 | 0.0000 |
| Cass | 2275020000 | 1.1075 | 0.5921 | 5.9387 | 0.0130 | 0.1171 | 0.0000 |
| Cass | 2275050011 | 2.2382 | 0.0608 | 133.5541 | 0.0640 | 0.1224 | 0.0752 |
| Cass | 2275050012 | 3.6761 | 1.9021 | 5.0526 | 0.0317 | 0.2749 | 0.0000 |
| Castro | 2275020000 | 0.1809 | 0.0355 | 0.7860 | 0.0018 | 0.0116 | 0.0000 |
| Castro | 2275050011 | 0.3759 | 0.0137 | 18.9759 | 0.0102 | 0.0191 | 0.0116 |
| Castro | 2275050012 | 0.8094 | 0.2845 | 1.9487 | 0.0083 | 0.0540 | 0.0000 |
| Castro | 2275001000 | 0.0174 | 0.3005 | 0.1030 | 0.0034 | 0.0188 | 0.0000 |
| Chambers | 2275020000 | 1.8694 | 0.4949 | 10.6819 | 0.0179 | 0.1598 | 0.0000 |
| Chambers | 2275050011 | 1.8214 | 0.0724 | 117.2891 | 0.0789 | 0.1177 | 0.0689 |
| Chambers | 2275050012 | 1.4881 | 0.3008 | 2.9548 | 0.0125 | 0.0645 | 0.0000 |
| Cherokee | 2275020000 | 3.2050 | 0.3869 | 6.9528 | 0.0244 | 0.0999 | 0.0009 |
| Cherokee | 2275060012 | 0.0232 | 0.0801 | 0.1524 | 0.0006 | 0.0090 | 0.0000 |
| Cherokee | 2275050011 | 1.8175 | 0.0682 | 92.1848 | 0.0465 | 0.0947 | 0.0525 |
| Cherokee | 2275050012 | 7.7450 | 1.9601 | 20.9505 | 0.0637 | 0.4957 | 0.0000 |
| Cherokee | 2275001000 | 0.2965 | 0.0413 | 0.8056 | 0.0022 | 0.0128 | 0.0000 |
| Childress | 2275020000 | 0.4181 | 0.0783 | 0.7529 | 0.0030 | 0.0176 | 0.0000 |
| Childress | 2275060012 | 0.0272 | 1.3843 | 0.2547 | 0.0155 | 0.0790 | 0.0000 |
| Childress | 2275050011 | 0.2089 | 0.0083 | 11.0135 | 0.0066 | 0.0110 | 0.0059 |
| Childress | 2275050012 | 1.3507 | 0.8279 | 4.6724 | 0.0128 | 0.1623 | 0.0000 |
| Childress | 2275001000 | 0.0655 | 0.0075 | 0.2486 | 0.0006 | 0.0028 | 0.0000 |
| Clay | 2275050011 | 1.1229 | 0.0428 | 61.4131 | 0.0399 | 0.0574 | 0.0357 |
| Clay | 2275050012 | 0.2978 | 0.0156 | 0.6704 | 0.0019 | 0.0068 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|---------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Cochran | 2275020000 | 0.0711 | 0.0139 | 0.3088 | 0.0007 | 0.0046 | 0.0000 |
| Cochran | 2275050011 | 0.1147 | 0.0042 | 5.8981 | 0.0030 | 0.0060 | 0.0036 |
| Cochran | 2275050012 | 0.3140 | 0.1116 | 0.7566 | 0.0032 | 0.0211 | 0.0000 |
| Cochran | 2275001000 | 0.0068 | 0.1181 | 0.0405 | 0.0013 | 0.0074 | 0.0000 |
| Coleman | 2275020000 | 0.2656 | 0.0436 | 1.1468 | 0.0026 | 0.0131 | 0.0003 |
| Coleman | 2275050011 | 0.4437 | 0.0146 | 22.6596 | 0.0119 | 0.0236 | 0.0139 |
| Coleman | 2275050012 | 4.8966 | 0.9438 | 14.5831 | 0.0499 | 0.2805 | 0.0000 |
| Collin | 2275020000 | 14.0152 | 20.8988 | 81.6670 | 0.3194 | 2.0710 | 0.0290 |
| Collin | 2275060012 | 6.0454 | 78.2036 | 21.2275 | 0.9428 | 4.6300 | 0.0000 |
| Collin | 2275050011 | 8.7691 | 0.7923 | 503.0025 | 0.2744 | 0.4451 | 0.3074 |
| Collin | 2275050012 | 44.8768 | 117.5983 | 140.5640 | 1.6899 | 10.1679 | 0.0000 |
| Collin | 2275001000 | 0.3455 | 0.1256 | 6.0314 | 0.0037 | 0.0247 | 0.0024 |
| Collin | 2275070000 | 0.5271 | 7.1760 | 23.2261 | 1.0648 | 1.5045 | 0.0000 |
| Collin | 2265008005 | 0.8919 | 2.2115 | 34.6148 | 0.0000 | 0.0000 | 0.0000 |
| Collin | 2270008005 | 0.1810 | 1.0531 | 0.2011 | 0.0195 | 0.0000 | 0.0000 |
| Collingsworth | 2275020000 | 0.2820 | 0.0933 | 1.5040 | 0.0025 | 0.0253 | 0.0000 |
| Collingsworth | 2275050011 | 0.2267 | 0.0090 | 11.1473 | 0.0067 | 0.0109 | 0.0067 |
| Collingsworth | 2275050012 | 1.0316 | 0.5558 | 2.3968 | 0.0094 | 0.1040 | 0.0000 |
| Collingsworth | 2275001000 | 0.0282 | 0.9806 | 0.2475 | 0.0111 | 0.0559 | 0.0000 |
| Colorado | 2275020000 | 0.5251 | 0.2514 | 5.2070 | 0.0088 | 0.0658 | 0.0013 |
| Colorado | 2275050011 | 1.2410 | 0.0525 | 70.4592 | 0.0328 | 0.0765 | 0.0403 |
| Colorado | 2275050012 | 3.4293 | 1.5385 | 7.6468 | 0.0337 | 0.2566 | 0.0000 |
| Colorado | 2275001000 | 0.3510 | 1.6885 | 1.6779 | 0.0188 | 0.1605 | 0.0000 |
| Comal | 2275020000 | 0.0017 | 0.0003 | 0.1361 | 0.0000 | 0.0001 | 0.0001 |
| Comal | 2275050011 | 1.9197 | 0.1067 | 112.9337 | 0.0669 | 0.0991 | 0.0678 |
| Comal | 2275050012 | 0.2952 | 0.1474 | 0.7304 | 0.0026 | 0.0235 | 0.0000 |
| Comanche | 2275020000 | 1.5701 | 0.5846 | 9.0222 | 0.0217 | 0.1652 | 0.0000 |
| Comanche | 2275050011 | 0.5742 | 0.0101 | 30.5938 | 0.0153 | 0.0293 | 0.0168 |
| Comanche | 2275050012 | 3.8768 | 1.1445 | 8.1576 | 0.0346 | 0.2157 | 0.0000 |
| Comanche | 2275001000 | 0.1165 | 1.4732 | 0.6827 | 0.0172 | 0.0936 | 0.0000 |
| Concho | 2275050011 | 0.0005 | 0.0000 | 0.0191 | 0.0000 | 0.0000 | 0.0000 |
| Cooke | 2275020000 | 0.3661 | 0.4485 | 1.6072 | 0.0062 | 0.0445 | 0.0005 |
| Cooke | 2275060012 | 0.1413 | 2.1690 | 0.6302 | 0.0251 | 0.1298 | 0.0000 |
| Cooke | 2275050011 | 0.9889 | 0.0360 | 54.0882 | 0.0346 | 0.0525 | 0.0311 |
| Cooke | 2275050012 | 3.2215 | 1.9226 | 8.2539 | 0.0435 | 0.2532 | 0.0000 |
| Cooke | 2275001000 | 0.1226 | 0.0338 | 1.7507 | 0.0009 | 0.0083 | 0.0009 |
| Coryell | 2275020000 | 11.3728 | 3.8686 | 79.1661 | 0.1434 | 1.1472 | 0.0000 |
| Coryell | 2275050011 | 0.1476 | 0.0164 | 8.0479 | 0.0048 | 0.0105 | 0.0065 |
| Coryell | 2275050012 | 0.2231 | 0.0812 | 0.5417 | 0.0019 | 0.0190 | 0.0000 |
| Coryell | 2275001000 | 0.0130 | 0.8677 | 0.1420 | 0.0097 | 0.0491 | 0.0000 |
| Cottle | 2275020000 | 0.1106 | 0.0366 | 0.5898 | 0.0010 | 0.0099 | 0.0000 |
| Cottle | 2275050011 | 0.1239 | 0.0048 | 5.9006 | 0.0036 | 0.0057 | 0.0035 |
| Cottle | 2275050012 | 0.4063 | 0.2180 | 0.9439 | 0.0037 | 0.0408 | 0.0000 |
| Cottle | 2275001000 | 0.0111 | 0.3846 | 0.0971 | 0.0044 | 0.0219 | 0.0000 |
| Crane | 2275020000 | 0.0866 | 0.0348 | 0.5082 | 0.0013 | 0.0096 | 0.0000 |
| Crane | 2275050011 | 0.0517 | 0.0011 | 2.6736 | 0.0013 | 0.0025 | 0.0015 |
| Crane | 2275050012 | 0.6478 | 0.2449 | 1.6274 | 0.0058 | 0.0476 | 0.0000 |
| Crane | 2275001000 | 0.0051 | 0.2000 | 0.0349 | 0.0023 | 0.0113 | 0.0000 |
| Crockett | 2275020000 | 0.1043 | 0.0437 | 0.5564 | 0.0014 | 0.0111 | 0.0000 |
| Crockett | 2275050011 | 0.1327 | 0.0061 | 7.7972 | 0.0049 | 0.0083 | 0.0047 |
| Crockett | 2275050012 | 3.1638 | 0.5113 | 7.2236 | 0.0301 | 0.1114 | 0.0000 |
| Crockett | 2275001000 | 0.0179 | 0.6070 | 0.1179 | 0.0068 | 0.0348 | 0.0000 |
| Crosby | 2275020000 | 0.0808 | 0.0158 | 0.3509 | 0.0008 | 0.0052 | 0.0000 |
| Crosby | 2275050011 | 1.4340 | 0.0495 | 60.2426 | 0.0370 | 0.0572 | 0.0354 |
| Crosby | 2275050012 | 0.3568 | 0.1268 | 0.8598 | 0.0037 | 0.0240 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|------------|------------|----------|-----------------|-----------|----------------|-----------------|--------|
| Crosby | 2275001000 | 0.0078 | 0.1342 | 0.0460 | 0.0015 | 0.0084 | 0.0000 |
| Culberson | 2275020000 | 0.4001 | 0.3249 | 2.1053 | 0.0137 | 0.0666 | 0.0000 |
| Culberson | 2275050011 | 0.1878 | 0.0048 | 9.4387 | 0.0054 | 0.0089 | 0.0053 |
| Culberson | 2275050012 | 1.8172 | 1.3027 | 4.4949 | 0.0219 | 0.1770 | 0.0000 |
| Culberson | 2275001000 | 0.0604 | 1.4284 | 0.4354 | 0.0159 | 0.0868 | 0.0000 |
| Dallam | 2275050011 | 0.5377 | 0.0205 | 29.4005 | 0.0191 | 0.0275 | 0.0171 |
| Dallam | 2275050012 | 0.1425 | 0.0074 | 0.3208 | 0.0009 | 0.0033 | 0.0000 |
| Dallas | 2275020000 | 92.0462 | 367.9688 | 501.0962 | 2.8975 | 35.9772 | 0.0691 |
| Dallas | 2275060012 | 14.5556 | 68.7164 | 50.6894 | 0.9288 | 5.3586 | 0.0000 |
| Dallas | 2275050011 | 22.0092 | 1.2781 | 1067.1720 | 0.5300 | 1.0836 | 0.6205 |
| Dallas | 2275050012 | 174.1110 | 230.2115 | 520.8540 | 3.3525 | 26.4655 | 0.0000 |
| Dallas | 2275001000 | 5.1075 | 15.3948 | 28.5137 | 0.1288 | 1.5863 | 0.0048 |
| Dallas | 2275070000 | 0.3181 | 5.0474 | 25.5115 | 0.7778 | 1.1613 | 0.0000 |
| Dallas | 2265008005 | 6.7448 | 14.1935 | 239.2275 | 0.0000 | 0.0000 | 0.0000 |
| Dallas | 2270008005 | 1.4035 | 9.3255 | 2.5108 | 0.0727 | 0.0000 | 0.0000 |
| Dawson | 2275020000 | 0.4673 | 0.1380 | 2.6962 | 0.0051 | 0.0428 | 0.0000 |
| Dawson | 2275050011 | 0.2754 | 0.0080 | 16.5933 | 0.0109 | 0.0163 | 0.0092 |
| Dawson | 2275050012 | 4.8917 | 2.4026 | 13.6349 | 0.0550 | 0.5423 | 0.0000 |
| Dawson | 2275001000 | 0.0023 | 0.0062 | 0.0296 | 0.0000 | 0.0016 | 0.0000 |
| De Witt | 2275020000 | 0.0140 | 0.0054 | 0.0787 | 0.0002 | 0.0014 | 0.0000 |
| De Witt | 2275050011 | 0.0066 | 0.0003 | 0.3522 | 0.0001 | 0.0003 | 0.0002 |
| De Witt | 2275050012 | 0.1145 | 0.0860 | 0.2486 | 0.0011 | 0.0124 | 0.0000 |
| De Witt | 2275001000 | 0.0006 | 0.0469 | 0.0069 | 0.0005 | 0.0026 | 0.0000 |
| Deaf Smith | 2275020000 | 0.2572 | 0.2752 | 1.2435 | 0.0029 | 0.0512 | 0.0000 |
| Deaf Smith | 2275060012 | 0.0083 | 0.6051 | 0.0886 | 0.0068 | 0.0338 | 0.0000 |
| Deaf Smith | 2275050011 | 0.4979 | 0.0076 | 25.4141 | 0.0135 | 0.0240 | 0.0141 |
| Deaf Smith | 2275050012 | 2.1923 | 2.7829 | 7.7724 | 0.0382 | 0.3492 | 0.0000 |
| Delta | 2275050011 | 0.0005 | 0.0000 | 0.0191 | 0.0000 | 0.0000 | 0.0000 |
| Denton | 2275020000 | 18.6038 | 10.9174 | 123.2453 | 0.2086 | 1.9820 | 0.0434 |
| Denton | 2275060012 | 4.7186 | 9.2486 | 9.3593 | 0.1356 | 0.6690 | 0.0000 |
| Denton | 2275050011 | 36.7266 | 1.1893 | 1959.4648 | 1.0589 | 1.9984 | 1.1117 |
| Denton | 2275050012 | 49.2422 | 37.5739 | 137.0602 | 0.6245 | 5.2541 | 0.0000 |
| Denton | 2275001000 | 0.8804 | 0.3787 | 11.7586 | 0.0070 | 0.1049 | 0.0053 |
| Denton | 2275070000 | 0.1530 | 3.4687 | 13.9924 | 0.4293 | 0.7075 | 0.0000 |
| Denton | 2265008005 | 1.0427 | 2.6004 | 40.8441 | 0.0000 | 0.0000 | 0.0000 |
| Denton | 2270008005 | 0.2810 | 1.4443 | 0.3174 | 0.0337 | 0.0000 | 0.0000 |
| Dickens | 2275050011 | 0.0756 | 0.0027 | 3.5524 | 0.0023 | 0.0033 | 0.0021 |
| Dickens | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Dimmit | 2275020000 | 0.3320 | 0.1816 | 1.2285 | 0.0040 | 0.0316 | 0.0000 |
| Dimmit | 2275060012 | 0.0155 | 0.1561 | 0.1086 | 0.0017 | 0.0115 | 0.0000 |
| Dimmit | 2275050011 | 0.1607 | 0.0053 | 7.2794 | 0.0043 | 0.0072 | 0.0043 |
| Dimmit | 2275050012 | 1.0336 | 0.5636 | 4.2288 | 0.0116 | 0.1096 | 0.0000 |
| Dimmit | 2275001000 | 0.1231 | 0.0104 | 0.3746 | 0.0012 | 0.0032 | 0.0000 |
| Donley | 2275020000 | 0.1659 | 0.0549 | 0.8847 | 0.0015 | 0.0149 | 0.0000 |
| Donley | 2275050011 | 0.0893 | 0.0038 | 4.7463 | 0.0028 | 0.0047 | 0.0029 |
| Donley | 2275050012 | 0.6068 | 0.3269 | 1.4099 | 0.0055 | 0.0612 | 0.0000 |
| Donley | 2275001000 | 0.0166 | 0.5769 | 0.1456 | 0.0066 | 0.0329 | 0.0000 |
| Duval | 2275020000 | 0.0072 | 0.0032 | 0.0349 | 0.0001 | 0.0007 | 0.0000 |
| Duval | 2275050011 | 0.2044 | 0.0070 | 8.9654 | 0.0056 | 0.0084 | 0.0052 |
| Duval | 2275050012 | 0.0722 | 0.0246 | 0.1654 | 0.0006 | 0.0048 | 0.0000 |
| Duval | 2275001000 | 0.0020 | 0.0003 | 0.0069 | 0.0000 | 0.0001 | 0.0000 |
| Eastland | 2275020000 | 3.5904 | 0.5399 | 10.6095 | 0.0360 | 0.1587 | 0.0008 |
| Eastland | 2275050011 | 1.2045 | 0.0330 | 58.5326 | 0.0276 | 0.0561 | 0.0326 |
| Eastland | 2275050012 | 7.3576 | 1.2646 | 17.4038 | 0.0642 | 0.3237 | 0.0000 |
| Eastland | 2275001000 | 0.0011 | 0.0098 | 0.0164 | 0.0000 | 0.0023 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-----------|------------|---------|----------|----------|----------------|---------|--------|
| Ector | 2275020000 | 10.7128 | 2.9577 | 26.5386 | 0.0872 | 0.7048 | 0.0007 |
| Ector | 2275060012 | 0.4687 | 5.9857 | 1.7068 | 0.0690 | 0.3528 | 0.0000 |
| Ector | 2275050011 | 2.5750 | 0.1413 | 137.1937 | 0.0758 | 0.1529 | 0.0755 |
| Ector | 2275050012 | 55.5014 | 38.8002 | 130.7449 | 0.7225 | 4.8303 | 0.0000 |
| Ector | 2275001000 | 0.0781 | 0.0120 | 1.0242 | 0.0009 | 0.0043 | 0.0004 |
| Edwards | 2275020000 | 0.0233 | 0.0098 | 0.1242 | 0.0003 | 0.0025 | 0.0000 |
| Edwards | 2275050011 | 0.2024 | 0.0073 | 8.8364 | 0.0055 | 0.0085 | 0.0052 |
| Edwards | 2275050012 | 0.7059 | 0.1141 | 1.6118 | 0.0067 | 0.0249 | 0.0000 |
| Edwards | 2275001000 | 0.0040 | 0.1354 | 0.0263 | 0.0015 | 0.0078 | 0.0000 |
| El Paso | 2275020000 | 41.6733 | 270.4860 | 206.0649 | 2.0986 | 22.5620 | 0.0061 |
| El Paso | 2275060012 | 1.6561 | 13.8702 | 11.4915 | 0.0996 | 1.5223 | 0.0000 |
| El Paso | 2275050011 | 0.6646 | 0.0256 | 35.4894 | 0.0162 | 0.0328 | 0.0177 |
| El Paso | 2275050012 | 8.2819 | 17.3567 | 29.5063 | 0.2103 | 1.8116 | 0.0000 |
| El Paso | 2275001000 | 4.1512 | 4.4366 | 23.8818 | 0.0693 | 0.6002 | 0.0003 |
| El Paso | 2275070000 | 1.4836 | 8.8705 | 12.7953 | 1.2061 | 1.5031 | 0.0000 |
| El Paso | 2265008005 | 1.9707 | 3.8866 | 67.5999 | 0.0000 | 0.0000 | 0.0000 |
| El Paso | 2270008005 | 0.5519 | 3.8229 | 1.1418 | 0.0857 | 0.0000 | 0.0000 |
| Ellis | 2275020000 | 5.4897 | 2.4936 | 16.2816 | 0.0587 | 0.4284 | 0.0006 |
| Ellis | 2275060012 | 2.3107 | 11.9593 | 6.4795 | 0.1443 | 0.7833 | 0.0000 |
| Ellis | 2275050011 | 5.7448 | 0.6823 | 312.4270 | 0.1876 | 0.4241 | 0.1818 |
| Ellis | 2275050012 | 21.4740 | 12.4602 | 59.2155 | 0.2473 | 1.9306 | 0.0000 |
| Ellis | 2275001000 | 0.3580 | 0.4998 | 2.6639 | 0.0082 | 0.0590 | 0.0000 |
| Erath | 2275020000 | 1.5804 | 0.2346 | 6.4084 | 0.0141 | 0.0643 | 0.0021 |
| Erath | 2275060012 | 0.1358 | 0.3850 | 0.3423 | 0.0050 | 0.0270 | 0.0000 |
| Erath | 2275050011 | 1.6798 | 0.2226 | 56.4650 | 0.0276 | 0.0867 | 0.0330 |
| Erath | 2275050012 | 3.5840 | 0.8938 | 11.5165 | 0.0309 | 0.2129 | 0.0000 |
| Erath | 2275001000 | 0.0466 | 0.0108 | 0.4582 | 0.0004 | 0.0030 | 0.0001 |
| Falls | 2275020000 | 0.0415 | 0.0092 | 0.2091 | 0.0004 | 0.0030 | 0.0000 |
| Falls | 2275050011 | 0.0733 | 0.0057 | 3.9958 | 0.0025 | 0.0045 | 0.0028 |
| Falls | 2275050012 | 0.0689 | 0.0223 | 0.1656 | 0.0006 | 0.0053 | 0.0000 |
| Falls | 2275001000 | 0.0035 | 0.2336 | 0.0382 | 0.0026 | 0.0132 | 0.0000 |
| Fannin | 2275020000 | 0.6088 | 0.1874 | 3.7167 | 0.0104 | 0.0601 | 0.0000 |
| Fannin | 2275050011 | 1.1688 | 0.0501 | 66.1475 | 0.0286 | 0.0744 | 0.0384 |
| Fannin | 2275050012 | 8.7701 | 2.0729 | 18.6708 | 0.0808 | 0.4401 | 0.0000 |
| Fannin | 2275001000 | 0.0046 | 0.3325 | 0.0487 | 0.0037 | 0.0186 | 0.0000 |
| Fayette | 2275020000 | 0.3444 | 0.1927 | 1.2720 | 0.0034 | 0.0379 | 0.0001 |
| Fayette | 2275060012 | 0.6744 | 2.3751 | 1.7595 | 0.0295 | 0.1634 | 0.0000 |
| Fayette | 2275050011 | 0.7060 | 0.0393 | 30.0790 | 0.0135 | 0.0310 | 0.0169 |
| Fayette | 2275050012 | 8.0418 | 3.7029 | 18.5518 | 0.0963 | 0.4888 | 0.0000 |
| Fayette | 2275001000 | 0.0397 | 0.0141 | 0.1046 | 0.0004 | 0.0032 | 0.0000 |
| Fisher | 2275020000 | 0.3831 | 0.1089 | 1.9112 | 0.0055 | 0.0323 | 0.0000 |
| Fisher | 2275050011 | 0.2331 | 0.0042 | 11.3392 | 0.0056 | 0.0099 | 0.0062 |
| Fisher | 2275050012 | 1.6874 | 0.6299 | 3.6972 | 0.0169 | 0.1240 | 0.0000 |
| Fisher | 2275001000 | 0.0150 | 1.0912 | 0.1598 | 0.0123 | 0.0610 | 0.0000 |
| Floyd | 2275020000 | 0.4070 | 0.0798 | 1.7684 | 0.0040 | 0.0262 | 0.0000 |
| Floyd | 2275050011 | 0.7539 | 0.0276 | 39.0811 | 0.0208 | 0.0395 | 0.0239 |
| Floyd | 2275050012 | 1.8242 | 0.6403 | 4.3913 | 0.0188 | 0.1216 | 0.0000 |
| Floyd | 2275001000 | 0.0391 | 0.6762 | 0.2318 | 0.0075 | 0.0422 | 0.0000 |
| Foard | 2275050011 | 0.0901 | 0.0034 | 4.9264 | 0.0032 | 0.0046 | 0.0029 |
| Foard | 2275050012 | 0.0239 | 0.0012 | 0.0538 | 0.0002 | 0.0005 | 0.0000 |
| Fort Bend | 2275020000 | 13.8730 | 18.4837 | 82.0453 | 0.3411 | 1.8985 | 0.0243 |
| Fort Bend | 2275060012 | 6.1001 | 28.3232 | 20.1452 | 0.4010 | 2.1722 | 0.0000 |
| Fort Bend | 2275050011 | 5.8483 | 0.1959 | 292.1332 | 0.1467 | 0.2879 | 0.1661 |
| Fort Bend | 2275050012 | 49.0821 | 51.4412 | 134.8891 | 0.9626 | 6.0257 | 0.0000 |
| Fort Bend | 2275001000 | 0.6354 | 0.2017 | 2.1567 | 0.0065 | 0.0550 | 0.0001 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Fort Bend | 2275070000 | 0.2027 | 3.2511 | 13.4725 | 0.4995 | 0.7022 | 0.0000 |
| Fort Bend | 2265008005 | 0.9011 | 2.2521 | 35.0539 | 0.0000 | 0.0000 | 0.0000 |
| Fort Bend | 2270008005 | 0.1279 | 0.8346 | 0.1480 | 0.0191 | 0.0000 | 0.0000 |
| Franklin | 2275050011 | 1.0830 | 0.0444 | 57.1760 | 0.0280 | 0.0625 | 0.0353 |
| Franklin | 2275050012 | 0.2418 | 0.1727 | 0.5836 | 0.0023 | 0.0303 | 0.0000 |
| Freestone | 2275020000 | 0.0051 | 0.0440 | 0.0737 | 0.0000 | 0.0102 | 0.0000 |
| Freestone | 2275050011 | 0.2389 | 0.0148 | 14.8905 | 0.0075 | 0.0182 | 0.0088 |
| Freestone | 2275050012 | 0.0084 | 0.1035 | 0.1174 | 0.0000 | 0.0193 | 0.0000 |
| Frio | 2275020000 | 0.1147 | 0.0816 | 0.9253 | 0.0052 | 0.0194 | 0.0002 |
| Frio | 2275060012 | 0.8828 | 4.2057 | 1.9018 | 0.0528 | 0.2547 | 0.0000 |
| Frio | 2275050011 | 0.2859 | 0.0049 | 19.2582 | 0.0136 | 0.0198 | 0.0112 |
| Frio | 2275050012 | 1.7567 | 2.3229 | 5.6999 | 0.0478 | 0.2388 | 0.0000 |
| Frio | 2275001000 | 0.0049 | 0.1043 | 0.0464 | 0.0010 | 0.0081 | 0.0000 |
| Gaines | 2275020000 | 0.0894 | 0.1278 | 0.6019 | 0.0008 | 0.0289 | 0.0000 |
| Gaines | 2275050011 | 1.2041 | 0.0411 | 61.0155 | 0.0393 | 0.0581 | 0.0350 |
| Gaines | 2275050012 | 6.3866 | 2.9050 | 19.0781 | 0.0714 | 0.6708 | 0.0000 |
| Galveston | 2275020000 | 2.8341 | 2.8351 | 13.3067 | 0.0535 | 0.3298 | 0.0029 |
| Galveston | 2275060012 | 0.5299 | 3.7603 | 2.0744 | 0.0482 | 0.2794 | 0.0000 |
| Galveston | 2275050011 | 3.5291 | 0.1690 | 179.7286 | 0.0952 | 0.1746 | 0.1015 |
| Galveston | 2275050012 | 12.1560 | 6.5780 | 31.9843 | 0.1803 | 1.0196 | 0.0000 |
| Galveston | 2275001000 | 0.5643 | 0.2895 | 2.7995 | 0.0065 | 0.0766 | 0.0000 |
| Galveston | 2275070000 | 0.0256 | 0.4250 | 1.8464 | 0.0625 | 0.0931 | 0.0000 |
| Galveston | 2265008005 | 0.1727 | 0.4402 | 6.8297 | 0.0000 | 0.0000 | 0.0000 |
| Galveston | 2270008005 | 0.0317 | 0.1882 | 0.0398 | 0.0041 | 0.0000 | 0.0000 |
| Garza | 2275020000 | 0.1938 | 0.0380 | 0.8421 | 0.0019 | 0.0125 | 0.0000 |
| Garza | 2275050011 | 0.4597 | 0.0164 | 22.1158 | 0.0120 | 0.0221 | 0.0134 |
| Garza | 2275050012 | 0.8564 | 0.3043 | 2.0635 | 0.0089 | 0.0576 | 0.0000 |
| Garza | 2275001000 | 0.0186 | 0.3220 | 0.1104 | 0.0036 | 0.0201 | 0.0000 |
| Gillespie | 2275020000 | 1.3083 | 0.6206 | 7.8929 | 0.0142 | 0.1013 | 0.0024 |
| Gillespie | 2275060012 | 1.0246 | 7.8969 | 3.4445 | 0.0919 | 0.4987 | 0.0000 |
| Gillespie | 2275050011 | 1.6462 | 0.1935 | 66.0886 | 0.0420 | 0.0883 | 0.0384 |
| Gillespie | 2275050012 | 5.1402 | 13.4241 | 16.3932 | 0.1887 | 1.0026 | 0.0000 |
| Gillespie | 2275001000 | 0.1128 | 0.0361 | 0.7284 | 0.0011 | 0.0108 | 0.0000 |
| Glasscock | 2275050011 | 0.1246 | 0.0044 | 5.5706 | 0.0035 | 0.0052 | 0.0032 |
| Glasscock | 2275050012 | 0.0088 | 0.0005 | 0.0199 | 0.0001 | 0.0002 | 0.0000 |
| Goliad | 2275020000 | 1.2316 | 3.7846 | 8.2798 | 0.0350 | 0.4218 | 0.0000 |
| Goliad | 2275050011 | 0.0237 | 0.0010 | 1.4393 | 0.0005 | 0.0014 | 0.0007 |
| Goliad | 2275050012 | 10.5851 | 10.6329 | 35.5207 | 0.1135 | 2.2901 | 0.0000 |
| Goliad | 2275001000 | 3.4162 | 1.7511 | 19.6207 | 0.0443 | 0.3678 | 0.0000 |
| Gonzales | 2275020000 | 0.2809 | 0.1070 | 1.5738 | 0.0032 | 0.0279 | 0.0000 |
| Gonzales | 2275050011 | 0.1334 | 0.0055 | 7.1016 | 0.0025 | 0.0067 | 0.0041 |
| Gonzales | 2275050012 | 2.2697 | 0.9347 | 4.6916 | 0.0224 | 0.1493 | 0.0000 |
| Gonzales | 2275001000 | 0.0129 | 0.9375 | 0.1373 | 0.0105 | 0.0524 | 0.0000 |
| Gray | 2275020000 | 1.1838 | 1.6387 | 10.4999 | 0.0129 | 0.3606 | 0.0009 |
| Gray | 2275060012 | 0.2857 | 1.1920 | 0.6594 | 0.0150 | 0.0757 | 0.0000 |
| Gray | 2275050011 | 0.3294 | 0.0047 | 17.9792 | 0.0080 | 0.0189 | 0.0102 |
| Gray | 2275050012 | 7.2250 | 3.3422 | 18.4160 | 0.0756 | 0.4888 | 0.0000 |
| Gray | 2275001000 | 0.0016 | 0.0003 | 0.1221 | 0.0000 | 0.0000 | 0.0000 |
| Grayson | 2275020000 | 3.6107 | 1.9498 | 28.4525 | 0.0429 | 0.3174 | 0.0132 |
| Grayson | 2275060012 | 0.3265 | 1.1954 | 1.2982 | 0.0172 | 0.1046 | 0.0000 |
| Grayson | 2275050011 | 3.2851 | 0.1815 | 188.3646 | 0.0927 | 0.2201 | 0.1136 |
| Grayson | 2275050012 | 13.6249 | 12.1712 | 38.5370 | 0.2188 | 1.6341 | 0.0000 |
| Grayson | 2275001000 | 0.2272 | 1.0554 | 1.9557 | 0.0015 | 0.2208 | 0.0000 |
| Gregg | 2275020000 | 8.4176 | 16.3278 | 40.5591 | 0.1363 | 1.6547 | 0.0116 |
| Gregg | 2275060012 | 0.4922 | 3.8518 | 1.5469 | 0.0469 | 0.2451 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|----------|-----------------|-----------|----------------|-----------------|--------|
| Gregg | 2275050011 | 5.7800 | 3.2321 | 187.1887 | 0.1200 | 0.5485 | 0.1022 |
| Gregg | 2275050012 | 21.2221 | 13.7068 | 49.8339 | 0.3103 | 1.8205 | 0.0000 |
| Gregg | 2275001000 | 6.7501 | 1.4059 | 36.4390 | 0.0651 | 0.4834 | 0.0013 |
| Gregg | 2275070000 | 0.0479 | 0.5624 | 1.7320 | 0.0795 | 0.1275 | 0.0000 |
| Gregg | 2265008005 | 0.3460 | 0.8680 | 13.5674 | 0.0000 | 0.0000 | 0.0000 |
| Gregg | 2270008005 | 0.0956 | 0.8161 | 0.1933 | 0.0296 | 0.0000 | 0.0000 |
| Grimes | 2275020000 | 0.1865 | 0.0289 | 0.6670 | 0.0017 | 0.0080 | 0.0001 |
| Grimes | 2275050011 | 1.0166 | 0.0596 | 62.3911 | 0.0217 | 0.0770 | 0.0380 |
| Grimes | 2275050012 | 4.2696 | 1.1848 | 9.5251 | 0.0383 | 0.2275 | 0.0000 |
| Guadalupe | 2275020000 | 3.5666 | 2.1253 | 33.1394 | 0.0470 | 0.3416 | 0.0147 |
| Guadalupe | 2275060012 | 1.5759 | 6.2863 | 4.5837 | 0.0783 | 0.4323 | 0.0000 |
| Guadalupe | 2275050011 | 6.3513 | 0.3593 | 339.7051 | 0.1631 | 0.3878 | 0.1972 |
| Guadalupe | 2275050012 | 36.3356 | 13.6317 | 94.0427 | 0.4184 | 2.3183 | 0.0000 |
| Guadalupe | 2275001000 | 12.3763 | 2.7306 | 90.3383 | 0.1381 | 1.0644 | 0.0002 |
| Hale | 2275020000 | 0.4119 | 0.0855 | 1.1314 | 0.0037 | 0.0223 | 0.0001 |
| Hale | 2275060012 | 0.0010 | 0.0027 | 0.0128 | 0.0000 | 0.0007 | 0.0000 |
| Hale | 2275050011 | 0.8745 | 0.0411 | 43.2369 | 0.0236 | 0.0456 | 0.0263 |
| Hale | 2275050012 | 1.8115 | 1.2760 | 5.4352 | 0.0262 | 0.1622 | 0.0000 |
| Hale | 2275001000 | 0.0010 | 0.0002 | 0.0874 | 0.0000 | 0.0001 | 0.0000 |
| Hall | 2275020000 | 0.0553 | 0.0183 | 0.2949 | 0.0005 | 0.0050 | 0.0000 |
| Hall | 2275050011 | 0.0298 | 0.0013 | 1.5821 | 0.0009 | 0.0016 | 0.0010 |
| Hall | 2275050012 | 0.2023 | 0.1090 | 0.4700 | 0.0018 | 0.0204 | 0.0000 |
| Hall | 2275001000 | 0.0055 | 0.1923 | 0.0485 | 0.0022 | 0.0110 | 0.0000 |
| Hamilton | 2275020000 | 0.6045 | 0.1347 | 3.0494 | 0.0057 | 0.0435 | 0.0000 |
| Hamilton | 2275050011 | 0.4135 | 0.0580 | 21.9339 | 0.0124 | 0.0321 | 0.0198 |
| Hamilton | 2275050012 | 0.8206 | 0.3157 | 2.0018 | 0.0072 | 0.0733 | 0.0000 |
| Hamilton | 2275001000 | 0.0512 | 3.4061 | 0.5573 | 0.0381 | 0.1928 | 0.0000 |
| Hansford | 2275020000 | 2.5800 | 0.5996 | 12.0601 | 0.0273 | 0.1829 | 0.0000 |
| Hansford | 2275050011 | 1.2582 | 0.0147 | 73.4286 | 0.0438 | 0.0680 | 0.0404 |
| Hansford | 2275050012 | 13.2058 | 4.2129 | 32.6493 | 0.1322 | 0.9459 | 0.0000 |
| Hansford | 2275001000 | 0.0035 | 0.2009 | 0.0397 | 0.0022 | 0.0117 | 0.0000 |
| Hardeman | 2275020000 | 0.4055 | 0.1341 | 2.1626 | 0.0036 | 0.0364 | 0.0000 |
| Hardeman | 2275050011 | 0.2182 | 0.0092 | 11.6021 | 0.0068 | 0.0116 | 0.0071 |
| Hardeman | 2275050012 | 1.4833 | 0.7991 | 3.4464 | 0.0135 | 0.1496 | 0.0000 |
| Hardeman | 2275001000 | 0.0405 | 1.4101 | 0.3559 | 0.0160 | 0.0804 | 0.0000 |
| Hardin | 2275020000 | 0.5252 | 0.1390 | 3.0011 | 0.0050 | 0.0449 | 0.0000 |
| Hardin | 2275050011 | 0.1554 | 0.0057 | 11.3894 | 0.0071 | 0.0120 | 0.0068 |
| Hardin | 2275050012 | 0.3297 | 0.0901 | 0.6303 | 0.0026 | 0.0175 | 0.0000 |
| Harris | 2275020000 | 226.9108 | 1456.4958 | 1657.1146 | 12.9591 | 147.0027 | 0.1204 |
| Harris | 2275060012 | 17.4510 | 35.6386 | 43.2621 | 0.5437 | 3.2751 | 0.0000 |
| Harris | 2275050011 | 26.3938 | 1.3064 | 1359.0627 | 0.6848 | 1.3309 | 0.7977 |
| Harris | 2275050012 | 207.0405 | 155.0165 | 528.8429 | 4.3262 | 19.5453 | 0.0000 |
| Harris | 2275001000 | 21.5291 | 36.2627 | 85.5074 | 0.3760 | 4.1131 | 0.0102 |
| Harris | 2275070000 | 2.5868 | 37.5630 | 47.6279 | 4.6734 | 5.9272 | 0.0000 |
| Harris | 2265008005 | 10.0423 | 21.4376 | 373.2532 | 0.0000 | 0.0000 | 0.0000 |
| Harris | 2270008005 | 2.7364 | 15.0529 | 4.1927 | 0.0857 | 0.0000 | 0.0000 |
| Harrison | 2275020000 | 0.4194 | 0.1062 | 3.3899 | 0.0033 | 0.0227 | 0.0016 |
| Harrison | 2275060012 | 1.9227 | 0.3084 | 3.1887 | 0.0157 | 0.0690 | 0.0000 |
| Harrison | 2275050011 | 0.7070 | 0.0268 | 37.9118 | 0.0202 | 0.0389 | 0.0214 |
| Harrison | 2275050012 | 21.7468 | 4.8394 | 43.1476 | 0.1957 | 0.9900 | 0.0000 |
| Harrison | 2275001000 | 0.0256 | 0.0109 | 0.1565 | 0.0002 | 0.0030 | 0.0000 |
| Hartley | 2275020000 | 0.6900 | 0.2269 | 2.4054 | 0.0061 | 0.0474 | 0.0004 |
| Hartley | 2275060012 | 0.0017 | 0.1266 | 0.0185 | 0.0014 | 0.0071 | 0.0000 |
| Hartley | 2275050011 | 1.0446 | 0.1820 | 25.9060 | 0.0187 | 0.0526 | 0.0140 |
| Hartley | 2275050012 | 2.0820 | 0.8561 | 7.7070 | 0.0208 | 0.1856 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Hartley | 2275001000 | 0.0014 | 0.0016 | 0.0579 | 0.0000 | 0.0003 | 0.0000 |
| Haskell | 2275020000 | 0.1596 | 0.0454 | 0.7963 | 0.0023 | 0.0135 | 0.0000 |
| Haskell | 2275050011 | 0.0969 | 0.0018 | 4.7167 | 0.0023 | 0.0041 | 0.0026 |
| Haskell | 2275050012 | 0.7031 | 0.2625 | 1.5405 | 0.0071 | 0.0517 | 0.0000 |
| Haskell | 2275001000 | 0.0062 | 0.4547 | 0.0666 | 0.0051 | 0.0254 | 0.0000 |
| Hays | 2275050011 | 0.1889 | 0.0065 | 7.7639 | 0.0049 | 0.0073 | 0.0045 |
| Hays | 2275050012 | 0.0031 | 0.1149 | 0.0413 | 0.0000 | 0.0145 | 0.0000 |
| Hemphill | 2275020000 | 0.1157 | 0.0594 | 0.6903 | 0.0011 | 0.0158 | 0.0000 |
| Hemphill | 2275050011 | 0.3775 | 0.0110 | 22.3676 | 0.0133 | 0.0234 | 0.0131 |
| Hemphill | 2275050012 | 4.6841 | 4.3743 | 14.1375 | 0.0700 | 0.5602 | 0.0000 |
| Henderson | 2275020000 | 0.1263 | 0.0264 | 5.8868 | 0.0006 | 0.0158 | 0.0037 |
| Henderson | 2275060012 | 0.0508 | 3.1892 | 0.5592 | 0.0356 | 0.1821 | 0.0000 |
| Henderson | 2275050011 | 4.3453 | 0.2586 | 255.3792 | 0.1724 | 0.2662 | 0.1513 |
| Henderson | 2275050012 | 6.0869 | 2.7847 | 17.0167 | 0.0721 | 0.3757 | 0.0000 |
| Hidalgo | 2275020000 | 14.0814 | 88.0364 | 68.0689 | 0.9403 | 8.7359 | 0.0015 |
| Hidalgo | 2275060012 | 1.1277 | 6.3970 | 7.4993 | 0.0700 | 0.8650 | 0.0000 |
| Hidalgo | 2275050011 | 3.1092 | 0.1171 | 159.2734 | 0.0883 | 0.1601 | 0.0915 |
| Hidalgo | 2275050012 | 18.2250 | 13.5938 | 51.3162 | 0.2605 | 1.9888 | 0.0000 |
| Hidalgo | 2275001000 | 2.4884 | 3.6858 | 8.5708 | 0.0480 | 0.3800 | 0.0003 |
| Hidalgo | 2275070000 | 0.7241 | 3.6658 | 7.0547 | 0.4974 | 0.6082 | 0.0000 |
| Hidalgo | 2265008005 | 1.0237 | 2.1677 | 36.3914 | 0.0000 | 0.0000 | 0.0000 |
| Hidalgo | 2270008005 | 0.2021 | 1.3989 | 0.3617 | 0.0065 | 0.0000 | 0.0000 |
| Hill | 2275020000 | 0.3178 | 0.2001 | 2.8618 | 0.0047 | 0.0325 | 0.0011 |
| Hill | 2275050011 | 0.9701 | 0.0746 | 54.1852 | 0.0294 | 0.0651 | 0.0306 |
| Hill | 2275050012 | 1.8778 | 0.8433 | 10.9799 | 0.0170 | 0.2032 | 0.0000 |
| Hill | 2275001000 | 0.0447 | 0.0011 | 1.9027 | 0.0000 | 0.0023 | 0.0011 |
| Hockley | 2275020000 | 1.7568 | 0.4618 | 8.8923 | 0.0161 | 0.1413 | 0.0000 |
| Hockley | 2275060012 | 0.0164 | 0.0455 | 0.2163 | 0.0000 | 0.0114 | 0.0000 |
| Hockley | 2275050011 | 0.2587 | 0.0036 | 12.5764 | 0.0053 | 0.0117 | 0.0067 |
| Hockley | 2275050012 | 4.0036 | 1.3300 | 12.0929 | 0.0315 | 0.3257 | 0.0000 |
| Hockley | 2275001000 | 0.0056 | 0.0172 | 0.0688 | 0.0000 | 0.0040 | 0.0000 |
| Hood | 2275020000 | 0.4680 | 0.2010 | 5.8767 | 0.0049 | 0.0425 | 0.0026 |
| Hood | 2275060012 | 0.0405 | 2.9498 | 0.4319 | 0.0332 | 0.1648 | 0.0000 |
| Hood | 2275050011 | 3.7760 | 0.2971 | 189.1651 | 0.1058 | 0.2011 | 0.1043 |
| Hood | 2275050012 | 5.7157 | 1.6476 | 32.9598 | 0.0504 | 0.3963 | 0.0000 |
| Hood | 2275001000 | 0.0124 | 0.0216 | 0.9587 | 0.0000 | 0.0064 | 0.0006 |
| Hopkins | 2275020000 | 1.3703 | 0.8599 | 19.2733 | 0.0132 | 0.1408 | 0.0103 |
| Hopkins | 2275060012 | 0.8669 | 18.3645 | 4.2012 | 0.2081 | 1.0657 | 0.0000 |
| Hopkins | 2275050011 | 1.7046 | 0.1041 | 100.4756 | 0.0435 | 0.1166 | 0.0590 |
| Hopkins | 2275050012 | 14.7362 | 15.4986 | 43.0444 | 0.2858 | 1.6022 | 0.0000 |
| Hopkins | 2275001000 | 0.0971 | 0.0811 | 0.6396 | 0.0008 | 0.0187 | 0.0000 |
| Houston | 2275020000 | 1.0125 | 0.3080 | 5.7672 | 0.0113 | 0.0928 | 0.0000 |
| Houston | 2275050011 | 0.9098 | 0.0213 | 46.2330 | 0.0240 | 0.0421 | 0.0257 |
| Houston | 2275050012 | 1.8940 | 0.9445 | 4.8388 | 0.0190 | 0.1672 | 0.0000 |
| Houston | 2275001000 | 0.0669 | 4.2889 | 0.6971 | 0.0481 | 0.2424 | 0.0000 |
| Howard | 2275020000 | 2.5153 | 1.2146 | 11.4337 | 0.0291 | 0.2432 | 0.0014 |
| Howard | 2275060012 | 0.0620 | 0.8628 | 0.2457 | 0.0100 | 0.0509 | 0.0000 |
| Howard | 2275050011 | 1.2548 | 0.0373 | 58.3577 | 0.0542 | 0.0609 | 0.0305 |
| Howard | 2275050012 | 9.3054 | 6.9945 | 31.1163 | 0.1185 | 1.0034 | 0.0000 |
| Howard | 2275001000 | 2.8034 | 0.3330 | 7.0948 | 0.0209 | 0.1047 | 0.0000 |
| Hudspeth | 2275020000 | 0.0690 | 0.0560 | 0.3630 | 0.0024 | 0.0115 | 0.0000 |
| Hudspeth | 2275050011 | 0.0694 | 0.0021 | 3.1466 | 0.0019 | 0.0030 | 0.0018 |
| Hudspeth | 2275050012 | 0.3148 | 0.2799 | 0.7948 | 0.0038 | 0.0375 | 0.0000 |
| Hudspeth | 2275001000 | 0.0104 | 0.2463 | 0.0751 | 0.0027 | 0.0150 | 0.0000 |
| Hunt | 2275020000 | 1.3937 | 5.7426 | 15.3281 | 0.0474 | 0.4927 | 0.0047 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Hunt | 2275060012 | 0.8766 | 0.7354 | 2.2966 | 0.0147 | 0.0988 | 0.0000 |
| Hunt | 2275050011 | 3.4232 | 0.1625 | 189.3943 | 0.0882 | 0.2098 | 0.1125 |
| Hunt | 2275050012 | 12.7409 | 6.2937 | 31.9088 | 0.1566 | 0.9917 | 0.0000 |
| Hunt | 2275001000 | 2.3810 | 18.1451 | 13.2139 | 0.1107 | 1.3333 | 0.0000 |
| Hutchinson | 2275020000 | 0.8219 | 0.3904 | 2.1944 | 0.0098 | 0.0502 | 0.0002 |
| Hutchinson | 2275060012 | 0.0015 | 0.0040 | 0.0192 | 0.0000 | 0.0010 | 0.0000 |
| Hutchinson | 2275050011 | 0.2211 | 0.0109 | 10.8171 | 0.0053 | 0.0120 | 0.0059 |
| Hutchinson | 2275050012 | 4.6841 | 1.3425 | 11.5707 | 0.0469 | 0.2677 | 0.0000 |
| Hutchinson | 2275001000 | 0.0076 | 0.0104 | 0.0365 | 0.0008 | 0.0023 | 0.0000 |
| Irion | 2275050011 | 0.0328 | 0.0013 | 1.7932 | 0.0012 | 0.0017 | 0.0010 |
| Irion | 2275050012 | 0.0087 | 0.0005 | 0.0196 | 0.0001 | 0.0002 | 0.0000 |
| Jack | 2275020000 | 0.1226 | 0.0320 | 0.5315 | 0.0013 | 0.0091 | 0.0000 |
| Jack | 2275050011 | 0.2058 | 0.0103 | 11.9485 | 0.0060 | 0.0125 | 0.0071 |
| Jack | 2275050012 | 0.5741 | 0.1211 | 1.0308 | 0.0045 | 0.0257 | 0.0000 |
| Jack | 2275001000 | 0.0009 | 0.0375 | 0.0102 | 0.0004 | 0.0023 | 0.0000 |
| Jackson | 2275020000 | 0.1205 | 0.0551 | 0.6964 | 0.0015 | 0.0139 | 0.0000 |
| Jackson | 2275050011 | 3.6470 | 0.1333 | 168.1503 | 0.1053 | 0.1592 | 0.0982 |
| Jackson | 2275050012 | 1.7045 | 1.5054 | 5.4380 | 0.0137 | 0.3282 | 0.0000 |
| Jackson | 2275001000 | 0.0601 | 0.7239 | 0.3575 | 0.0084 | 0.0477 | 0.0000 |
| Jasper | 2275020000 | 0.4730 | 0.2142 | 5.5951 | 0.0041 | 0.0416 | 0.0020 |
| Jasper | 2275060012 | 0.6820 | 0.1973 | 1.2763 | 0.0059 | 0.0371 | 0.0000 |
| Jasper | 2275050011 | 0.9622 | 0.0241 | 48.9135 | 0.0200 | 0.0485 | 0.0272 |
| Jasper | 2275050012 | 9.3674 | 6.6717 | 26.1164 | 0.1466 | 0.8087 | 0.0000 |
| Jasper | 2275001000 | 0.3758 | 0.0899 | 1.6766 | 0.0037 | 0.0280 | 0.0000 |
| Jeff Davis | 2275050011 | 1.8442 | 0.0633 | 75.7402 | 0.0475 | 0.0712 | 0.0442 |
| Jefferson | 2275020000 | 2.9314 | 6.6340 | 11.1334 | 0.0567 | 0.6905 | 0.0009 |
| Jefferson | 2275060012 | 1.5968 | 1.9764 | 2.8299 | 0.0350 | 0.1629 | 0.0000 |
| Jefferson | 2275050011 | 1.9371 | 0.0611 | 106.6962 | 0.0649 | 0.1017 | 0.0590 |
| Jefferson | 2275050012 | 13.0799 | 12.7700 | 39.5542 | 0.2284 | 1.6657 | 0.0000 |
| Jefferson | 2275001000 | 0.5051 | 0.1634 | 2.4130 | 0.0045 | 0.0467 | 0.0001 |
| Jefferson | 2275070000 | 0.0216 | 0.3883 | 2.5247 | 0.0604 | 0.0974 | 0.0000 |
| Jefferson | 2265008005 | 0.2289 | 0.5618 | 8.7517 | 0.0000 | 0.0000 | 0.0000 |
| Jefferson | 2270008005 | 0.0149 | 0.1730 | 0.0188 | 0.0028 | 0.0000 | 0.0000 |
| Jim Hogg | 2275020000 | 0.0504 | 0.0645 | 0.2107 | 0.0013 | 0.0075 | 0.0000 |
| Jim Hogg | 2275060012 | 0.0317 | 0.3031 | 0.1474 | 0.0035 | 0.0196 | 0.0000 |
| Jim Hogg | 2275050011 | 0.0387 | 0.0013 | 2.1825 | 0.0014 | 0.0020 | 0.0013 |
| Jim Hogg | 2275050012 | 0.2763 | 0.2802 | 0.9205 | 0.0052 | 0.0316 | 0.0000 |
| Jim Hogg | 2275001000 | 0.0005 | 0.0014 | 0.0212 | 0.0000 | 0.0003 | 0.0000 |
| Jim Wells | 2275020000 | 0.4106 | 0.5055 | 1.1938 | 0.0081 | 0.0447 | 0.0001 |
| Jim Wells | 2275060012 | 0.3722 | 2.4954 | 0.9580 | 0.0300 | 0.1512 | 0.0000 |
| Jim Wells | 2275050011 | 0.2694 | 0.0182 | 14.9158 | 0.0090 | 0.0159 | 0.0081 |
| Jim Wells | 2275050012 | 4.9354 | 4.0546 | 13.8355 | 0.0531 | 0.8518 | 0.0000 |
| Jim Wells | 2275001000 | 5.2866 | 7.3024 | 19.5564 | 0.0673 | 0.8847 | 0.0001 |
| Johnson | 2275020000 | 4.7698 | 1.8810 | 16.3799 | 0.0488 | 0.3541 | 0.0020 |
| Johnson | 2275060012 | 0.8034 | 2.7242 | 2.3582 | 0.0343 | 0.2017 | 0.0000 |
| Johnson | 2275050011 | 2.6290 | 0.1420 | 140.5645 | 0.0710 | 0.1404 | 0.0802 |
| Johnson | 2275050012 | 10.4313 | 5.8604 | 31.1704 | 0.1174 | 0.9029 | 0.0000 |
| Johnson | 2275001000 | 0.4530 | 0.0239 | 16.9717 | 0.0003 | 0.0228 | 0.0093 |
| Jones | 2275020000 | 0.4658 | 0.1328 | 2.3230 | 0.0044 | 0.0376 | 0.0000 |
| Jones | 2275050011 | 0.8876 | 0.0316 | 42.0312 | 0.0254 | 0.0414 | 0.0248 |
| Jones | 2275050012 | 2.9766 | 1.5694 | 7.0292 | 0.0313 | 0.2331 | 0.0000 |
| Jones | 2275001000 | 0.0080 | 0.4522 | 0.0893 | 0.0050 | 0.0262 | 0.0000 |
| Karnes | 2275020000 | 0.0768 | 0.0433 | 0.4557 | 0.0016 | 0.0112 | 0.0000 |
| Karnes | 2275050011 | 0.2754 | 0.0031 | 12.5605 | 0.0046 | 0.0115 | 0.0068 |
| Karnes | 2275050012 | 0.3893 | 0.8661 | 4.6484 | 0.0070 | 0.1045 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Karnes | 2275001000 | 0.1405 | 0.0277 | 0.3443 | 0.0013 | 0.0068 | 0.0000 |
| Kaufman | 2275020000 | 1.1773 | 0.4189 | 12.5727 | 0.0149 | 0.0983 | 0.0055 |
| Kaufman | 2275060012 | 0.4839 | 3.6069 | 1.5149 | 0.0422 | 0.2283 | 0.0000 |
| Kaufman | 2275050011 | 5.5851 | 0.2622 | 300.1658 | 0.1786 | 0.3350 | 0.1724 |
| Kaufman | 2275050012 | 12.6925 | 6.5232 | 34.2614 | 0.1500 | 0.8748 | 0.0000 |
| Kaufman | 2275001000 | 2.3664 | 0.1993 | 2.8753 | 0.0154 | 0.0485 | 0.0000 |
| Kendall | 2275050011 | 0.1401 | 0.0052 | 7.0473 | 0.0045 | 0.0066 | 0.0041 |
| Kendall | 2275050012 | 0.0252 | 0.0013 | 0.0567 | 0.0002 | 0.0006 | 0.0000 |
| Kenedy | 2275050011 | 0.2181 | 0.0075 | 8.9584 | 0.0056 | 0.0084 | 0.0052 |
| Kent | 2275020000 | 0.0639 | 0.0182 | 0.3185 | 0.0009 | 0.0054 | 0.0000 |
| Kent | 2275050011 | 0.0392 | 0.0007 | 1.9058 | 0.0009 | 0.0017 | 0.0010 |
| Kent | 2275050012 | 0.2812 | 0.1050 | 0.6162 | 0.0028 | 0.0207 | 0.0000 |
| Kent | 2275001000 | 0.0025 | 0.1819 | 0.0266 | 0.0020 | 0.0102 | 0.0000 |
| Kerr | 2275020000 | 6.6458 | 6.9840 | 30.0094 | 0.1204 | 0.7638 | 0.0077 |
| Kerr | 2275060012 | 2.7839 | 13.4073 | 7.9033 | 0.1656 | 0.8894 | 0.0000 |
| Kerr | 2275050011 | 2.9978 | 0.4805 | 148.1050 | 0.0859 | 0.1996 | 0.0848 |
| Kerr | 2275050012 | 30.2551 | 16.3228 | 73.9599 | 0.3959 | 2.3096 | 0.0000 |
| Kerr | 2275001000 | 0.3759 | 0.1363 | 5.4981 | 0.0045 | 0.0408 | 0.0025 |
| Kimble | 2275020000 | 0.1307 | 0.0237 | 0.3280 | 0.0011 | 0.0064 | 0.0000 |
| Kimble | 2275060012 | 0.0874 | 0.0826 | 0.2504 | 0.0011 | 0.0106 | 0.0000 |
| Kimble | 2275050011 | 0.1699 | 0.0108 | 10.7588 | 0.0068 | 0.0124 | 0.0065 |
| Kimble | 2275050012 | 1.2497 | 1.5428 | 3.4213 | 0.0247 | 0.1496 | 0.0000 |
| Kimble | 2275001000 | 3.9881 | 0.3165 | 9.2678 | 0.0367 | 0.0988 | 0.0000 |
| King | 2275050011 | 0.0852 | 0.0029 | 3.4992 | 0.0022 | 0.0033 | 0.0020 |
| Kinney | 2275020000 | 0.0362 | 0.1690 | 0.1028 | 0.0029 | 0.0152 | 0.0000 |
| Kinney | 2275050011 | 0.2667 | 0.0095 | 12.4534 | 0.0079 | 0.0117 | 0.0072 |
| Kinney | 2275050012 | 9.4710 | 1.1742 | 25.1780 | 0.0938 | 0.3541 | 0.0000 |
| Kinney | 2275001000 | 11.6297 | 2.5014 | 89.7447 | 0.1326 | 1.0284 | 0.0000 |
| Kleberg | 2275020000 | 0.5643 | 1.5328 | 2.2135 | 0.0151 | 0.1573 | 0.0000 |
| Kleberg | 2275060012 | 0.0523 | 0.4260 | 0.2085 | 0.0050 | 0.0282 | 0.0000 |
| Kleberg | 2275050011 | 0.0496 | 0.0016 | 3.7459 | 0.0024 | 0.0041 | 0.0022 |
| Kleberg | 2275050012 | 0.5154 | 0.4683 | 1.5424 | 0.0086 | 0.0512 | 0.0000 |
| Kleberg | 2275001000 | 5.8703 | 5.2521 | 24.6187 | 0.0663 | 1.1338 | 0.0001 |
| Knox | 2275020000 | 0.0829 | 0.0274 | 0.4424 | 0.0007 | 0.0074 | 0.0000 |
| Knox | 2275050011 | 0.2951 | 0.0106 | 13.2138 | 0.0082 | 0.0126 | 0.0078 |
| Knox | 2275050012 | 0.3142 | 0.1640 | 0.7292 | 0.0028 | 0.0308 | 0.0000 |
| Knox | 2275001000 | 0.0083 | 0.2884 | 0.0728 | 0.0033 | 0.0164 | 0.0000 |
| La Salle | 2275020000 | 0.7578 | 0.2275 | 2.1800 | 0.0075 | 0.0480 | 0.0000 |
| La Salle | 2275060012 | 0.5037 | 3.4376 | 1.8318 | 0.0404 | 0.2295 | 0.0000 |
| La Salle | 2275050011 | 0.2848 | 0.0105 | 15.9169 | 0.0102 | 0.0163 | 0.0090 |
| La Salle | 2275050012 | 6.4463 | 3.8110 | 15.6612 | 0.0853 | 0.4782 | 0.0000 |
| La Salle | 2275001000 | 3.8753 | 0.4272 | 9.2411 | 0.0293 | 0.1323 | 0.0000 |
| Lamar | 2275020000 | 0.4162 | 0.1194 | 5.4935 | 0.0035 | 0.0333 | 0.0025 |
| Lamar | 2275060012 | 0.3470 | 0.3631 | 0.6684 | 0.0060 | 0.0315 | 0.0000 |
| Lamar | 2275050011 | 2.5759 | 0.1169 | 141.2256 | 0.0833 | 0.1429 | 0.0819 |
| Lamar | 2275050012 | 7.2256 | 1.8977 | 17.1844 | 0.0693 | 0.3990 | 0.0000 |
| Lamar | 2275001000 | 0.0071 | 0.0099 | 0.5862 | 0.0000 | 0.0030 | 0.0004 |
| Lamb | 2275020000 | 0.0468 | 0.0092 | 0.2035 | 0.0005 | 0.0030 | 0.0000 |
| Lamb | 2275050011 | 0.6825 | 0.0236 | 28.8123 | 0.0176 | 0.0274 | 0.0170 |
| Lamb | 2275050012 | 0.2070 | 0.0735 | 0.4987 | 0.0021 | 0.0139 | 0.0000 |
| Lamb | 2275001000 | 0.0045 | 0.0778 | 0.0267 | 0.0009 | 0.0049 | 0.0000 |
| Lampasas | 2275020000 | 0.1262 | 0.0167 | 3.1032 | 0.0014 | 0.0076 | 0.0014 |
| Lampasas | 2275050011 | 1.2242 | 0.2376 | 67.9870 | 0.0401 | 0.0916 | 0.0389 |
| Lampasas | 2275050012 | 0.8813 | 1.4413 | 3.1093 | 0.0179 | 0.1398 | 0.0000 |
| Lampasas | 2275001000 | 0.6551 | 0.0939 | 2.1802 | 0.0056 | 0.0299 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Lavaca | 2275020000 | 0.2633 | 0.1003 | 1.4755 | 0.0030 | 0.0261 | 0.0000 |
| Lavaca | 2275050011 | 0.2070 | 0.0081 | 10.5046 | 0.0048 | 0.0099 | 0.0060 |
| Lavaca | 2275050012 | 2.1382 | 0.9160 | 4.4335 | 0.0210 | 0.1451 | 0.0000 |
| Lavaca | 2275001000 | 0.0121 | 0.8789 | 0.1287 | 0.0099 | 0.0491 | 0.0000 |
| Lee | 2275020000 | 0.0110 | 0.0081 | 0.7561 | 0.0000 | 0.0027 | 0.0005 |
| Lee | 2275050011 | 0.8437 | 0.0235 | 53.5865 | 0.0340 | 0.0540 | 0.0306 |
| Lee | 2275050012 | 0.4376 | 0.0736 | 2.2373 | 0.0035 | 0.0207 | 0.0000 |
| Lee | 2275001000 | 0.3297 | 0.0380 | 1.0776 | 0.0029 | 0.0106 | 0.0002 |
| Leon | 2275050011 | 0.2869 | 0.0104 | 13.8894 | 0.0089 | 0.0130 | 0.0081 |
| Leon | 2275050012 | 0.0418 | 0.0298 | 0.1023 | 0.0003 | 0.0044 | 0.0000 |
| Liberty | 2275020000 | 0.9638 | 0.1251 | 14.7397 | 0.0073 | 0.0466 | 0.0068 |
| Liberty | 2275060012 | 0.0987 | 4.1663 | 0.8087 | 0.0461 | 0.2432 | 0.0000 |
| Liberty | 2275050011 | 1.7858 | 0.0800 | 104.3315 | 0.0463 | 0.1052 | 0.0613 |
| Liberty | 2275050012 | 3.9175 | 0.8333 | 15.5087 | 0.0349 | 0.2465 | 0.0000 |
| Limestone | 2275060012 | 0.0241 | 1.4739 | 0.2663 | 0.0164 | 0.0845 | 0.0000 |
| Limestone | 2275050011 | 0.3371 | 0.0559 | 15.3064 | 0.0085 | 0.0255 | 0.0150 |
| Limestone | 2275050012 | 1.1658 | 1.8351 | 4.6816 | 0.0271 | 0.1789 | 0.0000 |
| Limestone | 2275001000 | 0.0266 | 0.0071 | 0.1535 | 0.0003 | 0.0023 | 0.0000 |
| Lipscomb | 2275020000 | 0.0858 | 0.0233 | 0.4945 | 0.0008 | 0.0075 | 0.0000 |
| Lipscomb | 2275050011 | 0.1483 | 0.0043 | 6.3168 | 0.0037 | 0.0059 | 0.0036 |
| Lipscomb | 2275050012 | 0.1387 | 0.0556 | 0.3841 | 0.0012 | 0.0114 | 0.0000 |
| Live Oak | 2275020000 | 0.1251 | 0.0339 | 0.7483 | 0.0012 | 0.0109 | 0.0000 |
| Live Oak | 2275050011 | 0.3032 | 0.0080 | 17.9095 | 0.0122 | 0.0172 | 0.0104 |
| Live Oak | 2275050012 | 0.5188 | 0.1166 | 2.0683 | 0.0049 | 0.0335 | 0.0000 |
| Live Oak | 2275001000 | 0.0081 | 0.0212 | 0.0425 | 0.0001 | 0.0045 | 0.0000 |
| Llano | 2275020000 | 1.8772 | 1.0505 | 6.6527 | 0.0250 | 0.1328 | 0.0011 |
| Llano | 2275060012 | 0.9732 | 3.4413 | 3.2704 | 0.0433 | 0.2706 | 0.0000 |
| Llano | 2275050011 | 1.7190 | 0.0714 | 88.3280 | 0.0428 | 0.0843 | 0.0488 |
| Llano | 2275050012 | 7.3293 | 3.3936 | 19.2191 | 0.0895 | 0.5578 | 0.0000 |
| Llano | 2275001000 | 0.0490 | 0.0162 | 0.2646 | 0.0004 | 0.0041 | 0.0000 |
| Lubbock | 2275020000 | 36.6101 | 148.4975 | 181.0559 | 1.1785 | 12.1583 | 0.0189 |
| Lubbock | 2275060012 | 2.0077 | 10.9792 | 6.5964 | 0.0964 | 0.9235 | 0.0000 |
| Lubbock | 2275050011 | 4.7406 | 0.2324 | 267.4988 | 0.1748 | 0.2602 | 0.1542 |
| Lubbock | 2275050012 | 25.1277 | 15.5906 | 67.8774 | 0.3318 | 2.1528 | 0.0000 |
| Lubbock | 2275001000 | 7.2338 | 11.6969 | 32.5518 | 0.1414 | 1.3283 | 0.0001 |
| Lubbock | 2275070000 | 0.3736 | 5.4647 | 6.7362 | 0.6679 | 0.9013 | 0.0000 |
| Lubbock | 2265008005 | 1.4573 | 3.1239 | 52.4440 | 0.0000 | 0.0000 | 0.0000 |
| Lubbock | 2270008005 | 0.5038 | 3.5924 | 1.0321 | 0.1236 | 0.0000 | 0.0000 |
| Lynn | 2275020000 | 0.1034 | 0.0203 | 0.4491 | 0.0010 | 0.0067 | 0.0000 |
| Lynn | 2275050011 | 0.1668 | 0.0061 | 8.5791 | 0.0044 | 0.0088 | 0.0053 |
| Lynn | 2275050012 | 0.4568 | 0.1623 | 1.1006 | 0.0047 | 0.0307 | 0.0000 |
| Lynn | 2275001000 | 0.0099 | 0.1717 | 0.0589 | 0.0019 | 0.0107 | 0.0000 |
| Madison | 2275020000 | 0.0053 | 0.0458 | 0.0767 | 0.0000 | 0.0107 | 0.0000 |
| Madison | 2275050011 | 0.2367 | 0.0151 | 15.4989 | 0.0079 | 0.0189 | 0.0091 |
| Madison | 2275050012 | 0.0175 | 0.0795 | 0.1334 | 0.0001 | 0.0167 | 0.0000 |
| Marion | 2275020000 | 0.1910 | 0.0581 | 1.1027 | 0.0022 | 0.0178 | 0.0000 |
| Marion | 2275050011 | 0.4576 | 0.0105 | 26.9336 | 0.0189 | 0.0269 | 0.0146 |
| Marion | 2275050012 | 0.2614 | 0.0421 | 0.5056 | 0.0021 | 0.0105 | 0.0000 |
| Martin | 2275020000 | 0.1181 | 0.0474 | 0.6931 | 0.0018 | 0.0131 | 0.0000 |
| Martin | 2275050011 | 0.1103 | 0.0029 | 5.2789 | 0.0028 | 0.0050 | 0.0030 |
| Martin | 2275050012 | 0.8834 | 0.3340 | 2.2192 | 0.0080 | 0.0649 | 0.0000 |
| Martin | 2275001000 | 0.0070 | 0.2727 | 0.0476 | 0.0031 | 0.0154 | 0.0000 |
| Mason | 2275020000 | 0.0302 | 0.0081 | 0.1740 | 0.0003 | 0.0026 | 0.0000 |
| Mason | 2275050011 | 0.3633 | 0.0165 | 20.3256 | 0.0113 | 0.0206 | 0.0119 |
| Mason | 2275050012 | 0.0707 | 0.0150 | 0.1848 | 0.0006 | 0.0039 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|-----------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Matagorda | 2275020000 | 2.0152 | 0.3780 | 5.4791 | 0.0165 | 0.0960 | 0.0000 |
| Matagorda | 2275060012 | 0.0622 | 2.7272 | 0.5869 | 0.0306 | 0.1571 | 0.0000 |
| Matagorda | 2275050011 | 1.0090 | 0.0392 | 58.6535 | 0.0321 | 0.0595 | 0.0327 |
| Matagorda | 2275050012 | 4.8868 | 5.8238 | 14.2216 | 0.0930 | 0.5769 | 0.0000 |
| Matagorda | 2275001000 | 1.0626 | 1.7831 | 5.2190 | 0.0087 | 0.3787 | 0.0003 |
| Maverick | 2275020000 | 0.0686 | 0.0470 | 0.3378 | 0.0007 | 0.0085 | 0.0000 |
| Maverick | 2275060012 | 0.0007 | 0.0017 | 0.0081 | 0.0000 | 0.0004 | 0.0000 |
| Maverick | 2275050011 | 0.0443 | 0.0006 | 2.2661 | 0.0010 | 0.0022 | 0.0012 |
| Maverick | 2275050012 | 0.7119 | 0.3626 | 1.7790 | 0.0065 | 0.0641 | 0.0000 |
| Maverick | 2275001000 | 0.0124 | 0.0009 | 0.0287 | 0.0001 | 0.0003 | 0.0000 |
| Mcculloch | 2275020000 | 1.2950 | 0.9238 | 6.4923 | 0.0262 | 0.1572 | 0.0009 |
| Mcculloch | 2275060012 | 0.8736 | 7.6910 | 4.5256 | 0.0909 | 0.4840 | 0.0000 |
| Mcculloch | 2275050011 | 0.4497 | 0.0108 | 26.0325 | 0.0140 | 0.0249 | 0.0145 |
| Mcculloch | 2275050012 | 7.3974 | 2.1459 | 20.7804 | 0.0688 | 0.4527 | 0.0000 |
| Mcculloch | 2275001000 | 0.2135 | 0.0233 | 0.7334 | 0.0016 | 0.0072 | 0.0002 |
| Mclennan | 2275020000 | 25.7866 | 27.4353 | 80.7434 | 0.3314 | 3.1149 | 0.0085 |
| Mclennan | 2275060012 | 7.2683 | 4.4036 | 17.6340 | 0.0933 | 0.4987 | 0.0000 |
| Mclennan | 2275050011 | 4.4289 | 0.4188 | 283.1027 | 0.1293 | 0.3008 | 0.1833 |
| Mclennan | 2275050012 | 54.7037 | 41.1746 | 146.3168 | 0.6911 | 4.5373 | 0.0000 |
| Mclennan | 2275001000 | 44.7791 | 12.9699 | 117.0100 | 0.3780 | 2.1975 | 0.0005 |
| Mclennan | 2275070000 | 0.0608 | 0.6461 | 2.0757 | 0.0949 | 0.1522 | 0.0000 |
| Mclennan | 2265008005 | 0.5056 | 1.2583 | 19.6155 | 0.0000 | 0.0000 | 0.0000 |
| Mclennan | 2270008005 | 0.0538 | 0.3974 | 0.0617 | 0.0021 | 0.0000 | 0.0000 |
| Mcmullen | 2275050011 | 0.0433 | 0.0015 | 1.7821 | 0.0011 | 0.0017 | 0.0010 |
| Mcmullen | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Medina | 2275020000 | 1.5198 | 0.7559 | 6.8271 | 0.0413 | 0.1736 | 0.0006 |
| Medina | 2275060012 | 0.0811 | 0.9214 | 0.3838 | 0.0107 | 0.0581 | 0.0000 |
| Medina | 2275050011 | 2.0407 | 0.1358 | 118.8438 | 0.0644 | 0.1356 | 0.0703 |
| Medina | 2275050012 | 8.8244 | 3.3059 | 20.4359 | 0.0906 | 0.5296 | 0.0000 |
| Medina | 2275001000 | 0.6898 | 9.1342 | 3.4620 | 0.1061 | 0.5412 | 0.0000 |
| Menard | 2275020000 | 0.0133 | 0.0056 | 0.0709 | 0.0002 | 0.0014 | 0.0000 |
| Menard | 2275050011 | 0.0872 | 0.0033 | 4.3258 | 0.0028 | 0.0042 | 0.0025 |
| Menard | 2275050012 | 0.4116 | 0.0656 | 0.9395 | 0.0039 | 0.0144 | 0.0000 |
| Menard | 2275001000 | 0.0023 | 0.0773 | 0.0150 | 0.0009 | 0.0044 | 0.0000 |
| Midland | 2275020000 | 24.0625 | 86.3017 | 102.5707 | 0.7835 | 8.4546 | 0.0011 |
| Midland | 2275060012 | 4.6563 | 30.3189 | 19.6188 | 0.3284 | 2.3285 | 0.0000 |
| Midland | 2275050011 | 2.2600 | 0.1141 | 132.6011 | 0.0835 | 0.1344 | 0.0759 |
| Midland | 2275050012 | 33.7643 | 35.9055 | 106.2343 | 0.6215 | 3.8663 | 0.0000 |
| Midland | 2275001000 | 5.0709 | 2.0921 | 21.4231 | 0.0599 | 0.4030 | 0.0001 |
| Midland | 2275070000 | 0.7196 | 3.8717 | 7.0572 | 0.4973 | 0.6657 | 0.0000 |
| Midland | 2265008005 | 0.9700 | 2.0022 | 34.2108 | 0.0000 | 0.0000 | 0.0000 |
| Midland | 2270008005 | 0.2757 | 2.0360 | 0.5515 | 0.0401 | 0.0000 | 0.0000 |
| Milam | 2275020000 | 0.0205 | 0.1760 | 0.2947 | 0.0000 | 0.0409 | 0.0000 |
| Milam | 2275050011 | 0.8897 | 0.0573 | 57.8988 | 0.0292 | 0.0711 | 0.0342 |
| Milam | 2275050012 | 0.0509 | 0.3043 | 0.4761 | 0.0001 | 0.0637 | 0.0000 |
| Mills | 2275020000 | 0.3401 | 0.1086 | 1.9646 | 0.0041 | 0.0328 | 0.0000 |
| Mills | 2275050011 | 0.3163 | 0.0107 | 15.4507 | 0.0088 | 0.0153 | 0.0092 |
| Mills | 2275050012 | 1.5304 | 0.2477 | 3.5542 | 0.0149 | 0.0731 | 0.0000 |
| Mitchell | 2275020000 | 0.1383 | 0.0393 | 0.6902 | 0.0020 | 0.0117 | 0.0000 |
| Mitchell | 2275050011 | 0.0845 | 0.0015 | 4.1069 | 0.0020 | 0.0036 | 0.0023 |
| Mitchell | 2275050012 | 0.6093 | 0.2275 | 1.3351 | 0.0061 | 0.0448 | 0.0000 |
| Mitchell | 2275001000 | 0.0054 | 0.3941 | 0.0577 | 0.0044 | 0.0220 | 0.0000 |
| Montague | 2275020000 | 0.2298 | 0.0722 | 0.8569 | 0.0046 | 0.0182 | 0.0000 |
| Montague | 2275050011 | 0.1702 | 0.0059 | 9.5824 | 0.0046 | 0.0100 | 0.0054 |
| Montague | 2275050012 | 1.8339 | 0.8181 | 4.2073 | 0.0182 | 0.1312 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-------------|------------|---------|---------|----------|----------------|--------|--------|
| Montague | 2275001000 | 0.0289 | 1.7336 | 0.2889 | 0.0194 | 0.0982 | 0.0000 |
| Montgomery | 2275020000 | 9.1736 | 12.9851 | 42.9586 | 0.1598 | 1.6019 | 0.0077 |
| Montgomery | 2275060012 | 2.6923 | 13.4668 | 9.0528 | 0.1831 | 1.0121 | 0.0000 |
| Montgomery | 2275050011 | 8.8913 | 0.7930 | 348.9140 | 0.1804 | 0.3480 | 0.2091 |
| Montgomery | 2275050012 | 29.7832 | 53.2694 | 93.1121 | 0.8877 | 5.2152 | 0.0000 |
| Montgomery | 2275001000 | 3.5992 | 0.6727 | 23.8008 | 0.0284 | 0.1842 | 0.0092 |
| Montgomery | 2275070000 | 0.1751 | 2.4936 | 9.5330 | 0.3624 | 0.5475 | 0.0000 |
| Montgomery | 2265008005 | 0.6145 | 1.4998 | 23.5885 | 0.0000 | 0.0000 | 0.0000 |
| Montgomery | 2270008005 | 0.1090 | 0.7414 | 0.1394 | 0.0218 | 0.0000 | 0.0000 |
| Moore | 2275020000 | 1.7464 | 1.1410 | 6.2477 | 0.0226 | 0.1466 | 0.0003 |
| Moore | 2275060012 | 0.0206 | 1.2312 | 0.2285 | 0.0137 | 0.0708 | 0.0000 |
| Moore | 2275050011 | 0.7319 | 0.0448 | 37.3868 | 0.0230 | 0.0423 | 0.0212 |
| Moore | 2275050012 | 6.4295 | 3.7435 | 16.4709 | 0.0787 | 0.5109 | 0.0000 |
| Moore | 2275001000 | 0.0514 | 0.0082 | 0.1139 | 0.0006 | 0.0021 | 0.0000 |
| Morris | 2275020000 | 0.0030 | 0.0009 | 0.0172 | 0.0000 | 0.0003 | 0.0000 |
| Morris | 2275050011 | 0.0068 | 0.0001 | 0.3994 | 0.0003 | 0.0004 | 0.0002 |
| Morris | 2275050012 | 0.0050 | 0.0399 | 0.0217 | 0.0000 | 0.0051 | 0.0000 |
| Motley | 2275050011 | 0.0004 | 0.0000 | 0.0197 | 0.0000 | 0.0000 | 0.0000 |
| Motley | 2275050012 | 0.0001 | 0.0000 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| Nacogdoches | 2275020000 | 0.9058 | 0.4415 | 10.1917 | 0.0130 | 0.0865 | 0.0046 |
| Nacogdoches | 2275060012 | 0.6315 | 5.6095 | 2.1476 | 0.0651 | 0.3455 | 0.0000 |
| Nacogdoches | 2275050011 | 2.2263 | 0.1126 | 111.4053 | 0.0533 | 0.1119 | 0.0643 |
| Nacogdoches | 2275050012 | 10.3431 | 22.4864 | 31.5825 | 0.3191 | 1.8022 | 0.0000 |
| Nacogdoches | 2275001000 | 0.1515 | 0.0608 | 0.8898 | 0.0014 | 0.0172 | 0.0000 |
| Navarro | 2275020000 | 2.3153 | 0.2510 | 5.6822 | 0.0208 | 0.0931 | 0.0005 |
| Navarro | 2275050011 | 1.7725 | 0.1536 | 108.2082 | 0.0573 | 0.1070 | 0.0633 |
| Navarro | 2275050012 | 9.3926 | 4.9024 | 32.5283 | 0.1120 | 0.7614 | 0.0000 |
| Navarro | 2275001000 | 0.0127 | 0.0000 | 0.4436 | 0.0000 | 0.0004 | 0.0002 |
| Newton | 2275020000 | 0.1780 | 0.0471 | 1.0173 | 0.0017 | 0.0152 | 0.0000 |
| Newton | 2275050011 | 0.0530 | 0.0019 | 3.8805 | 0.0024 | 0.0041 | 0.0023 |
| Newton | 2275050012 | 0.1116 | 0.0212 | 0.2105 | 0.0009 | 0.0047 | 0.0000 |
| Nolan | 2275020000 | 0.3050 | 0.1951 | 0.8028 | 0.0030 | 0.0315 | 0.0000 |
| Nolan | 2275060012 | 0.0336 | 1.2519 | 0.2618 | 0.0138 | 0.0741 | 0.0000 |
| Nolan | 2275050011 | 0.3085 | 0.0142 | 15.1158 | 0.0081 | 0.0152 | 0.0084 |
| Nolan | 2275050012 | 1.8303 | 0.5385 | 4.6961 | 0.0199 | 0.1241 | 0.0000 |
| Nolan | 2275001000 | 0.1059 | 0.0296 | 0.7467 | 0.0010 | 0.0095 | 0.0001 |
| Nueces | 2275020000 | 25.5756 | 85.9350 | 114.1854 | 0.7906 | 9.8717 | 0.0026 |
| Nueces | 2275060012 | 0.8526 | 6.4123 | 6.4823 | 0.0584 | 0.7556 | 0.0000 |
| Nueces | 2275050011 | 2.0407 | 0.0760 | 120.9223 | 0.0692 | 0.1161 | 0.0686 |
| Nueces | 2275050012 | 31.3289 | 18.3462 | 93.2850 | 0.3769 | 3.3910 | 0.0000 |
| Nueces | 2275001000 | 14.3648 | 10.2044 | 43.7809 | 0.2104 | 1.4933 | 0.0006 |
| Nueces | 2275070000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Nueces | 2265008005 | 1.2202 | 2.6718 | 44.3364 | 0.0000 | 0.0000 | 0.0000 |
| Nueces | 2270008005 | 0.3143 | 2.3416 | 0.5915 | 0.0520 | 0.0000 | 0.0000 |
| Ochiltree | 2275020000 | 0.1611 | 0.0624 | 0.5528 | 0.0015 | 0.0142 | 0.0000 |
| Ochiltree | 2275050011 | 0.2375 | 0.0010 | 11.6262 | 0.0055 | 0.0102 | 0.0062 |
| Ochiltree | 2275050012 | 1.7520 | 0.6099 | 7.0032 | 0.0156 | 0.1467 | 0.0000 |
| Oldham | 2275020000 | 0.7550 | 0.2052 | 4.3515 | 0.0074 | 0.0657 | 0.0000 |
| Oldham | 2275050011 | 0.3005 | 0.0031 | 14.3177 | 0.0071 | 0.0127 | 0.0077 |
| Oldham | 2275050012 | 1.2210 | 0.4894 | 3.3804 | 0.0103 | 0.1005 | 0.0000 |
| Orange | 2275020000 | 1.6200 | 0.1864 | 3.6463 | 0.0157 | 0.0591 | 0.0000 |
| Orange | 2275060012 | 0.4544 | 1.5197 | 1.0395 | 0.0194 | 0.1006 | 0.0000 |
| Orange | 2275050011 | 0.6125 | 0.0160 | 32.5459 | 0.0156 | 0.0326 | 0.0183 |
| Orange | 2275050012 | 6.8963 | 1.4137 | 20.5421 | 0.0635 | 0.3665 | 0.0000 |
| Orange | 2275001000 | 0.0617 | 0.0164 | 0.3553 | 0.0006 | 0.0053 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Palo Pinto | 2275020000 | 0.1144 | 0.0298 | 0.4961 | 0.0012 | 0.0085 | 0.0000 |
| Palo Pinto | 2275050011 | 0.2493 | 0.0116 | 13.6083 | 0.0072 | 0.0139 | 0.0080 |
| Palo Pinto | 2275050012 | 0.5396 | 0.1801 | 0.9906 | 0.0042 | 0.0325 | 0.0000 |
| Palo Pinto | 2275001000 | 0.0008 | 0.0350 | 0.0095 | 0.0004 | 0.0021 | 0.0000 |
| Panola | 2275020000 | 0.0034 | 0.0002 | 0.1851 | 0.0000 | 0.0003 | 0.0001 |
| Panola | 2275050011 | 0.1868 | 0.0040 | 10.9993 | 0.0078 | 0.0109 | 0.0059 |
| Panola | 2275050012 | 0.1965 | 0.0829 | 0.7119 | 0.0018 | 0.0173 | 0.0000 |
| Parker | 2275020000 | 1.5789 | 1.1705 | 17.8023 | 0.0233 | 0.1849 | 0.0082 |
| Parker | 2275060012 | 1.3171 | 2.9965 | 3.3838 | 0.0380 | 0.2454 | 0.0000 |
| Parker | 2275050011 | 13.7781 | 0.5369 | 721.7751 | 0.2931 | 0.5270 | 0.4229 |
| Parker | 2275050012 | 10.8085 | 7.2908 | 37.4488 | 0.1310 | 1.1807 | 0.0000 |
| Parker | 2275001000 | 1.8989 | 0.3145 | 15.7060 | 0.0151 | 0.1021 | 0.0070 |
| Parmer | 2275050011 | 1.6650 | 0.0572 | 68.3784 | 0.0429 | 0.0643 | 0.0399 |
| Pecos | 2275020000 | 0.4778 | 0.2305 | 1.5378 | 0.0043 | 0.0445 | 0.0000 |
| Pecos | 2275060012 | 0.0372 | 0.9104 | 0.2821 | 0.0099 | 0.0562 | 0.0000 |
| Pecos | 2275050011 | 0.3572 | 0.0103 | 19.8489 | 0.0118 | 0.0194 | 0.0112 |
| Pecos | 2275050012 | 1.3366 | 0.6818 | 4.4920 | 0.0156 | 0.1354 | 0.0000 |
| Pecos | 2275001000 | 1.2303 | 0.1517 | 3.0328 | 0.0092 | 0.0463 | 0.0000 |
| Polk | 2275020000 | 1.0585 | 0.3220 | 6.0294 | 0.0118 | 0.0970 | 0.0000 |
| Polk | 2275050011 | 0.8010 | 0.0168 | 41.1107 | 0.0205 | 0.0373 | 0.0226 |
| Polk | 2275050012 | 1.9595 | 0.9863 | 5.0124 | 0.0197 | 0.1743 | 0.0000 |
| Polk | 2275001000 | 0.0699 | 4.4839 | 0.7287 | 0.0503 | 0.2535 | 0.0000 |
| Potter | 2275020000 | 11.1743 | 41.3396 | 47.9560 | 0.3761 | 4.0886 | 0.0016 |
| Potter | 2275060012 | 2.0020 | 9.1107 | 6.0366 | 0.0762 | 0.8085 | 0.0000 |
| Potter | 2275050011 | 0.4617 | 0.0432 | 22.7381 | 0.0110 | 0.0268 | 0.0131 |
| Potter | 2275050012 | 10.7040 | 10.7588 | 29.9005 | 0.1624 | 1.2515 | 0.0000 |
| Potter | 2275001000 | 10.9302 | 14.3450 | 54.2058 | 0.1851 | 1.8017 | 0.0004 |
| Potter | 2275070000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Potter | 2265008005 | 0.7674 | 1.6112 | 27.2516 | 0.0000 | 0.0000 | 0.0000 |
| Potter | 2270008005 | 0.2438 | 1.9749 | 0.5271 | 0.0579 | 0.0000 | 0.0000 |
| Presidio | 2275020000 | 0.9654 | 0.9198 | 3.2318 | 0.0186 | 0.1145 | 0.0000 |
| Presidio | 2275060012 | 0.7274 | 2.3764 | 2.3615 | 0.0336 | 0.1909 | 0.0000 |
| Presidio | 2275050011 | 0.4060 | 0.0152 | 20.4697 | 0.0119 | 0.0209 | 0.0111 |
| Presidio | 2275050012 | 3.3227 | 2.8440 | 10.1112 | 0.0546 | 0.3882 | 0.0000 |
| Presidio | 2275001000 | 0.2255 | 0.8804 | 0.8737 | 0.0118 | 0.0650 | 0.0000 |
| Rains | 2275050011 | 0.0409 | 0.0016 | 2.2366 | 0.0015 | 0.0021 | 0.0013 |
| Rains | 2275050012 | 0.0108 | 0.0006 | 0.0244 | 0.0001 | 0.0002 | 0.0000 |
| Randall | 2275020000 | 0.3939 | 0.2560 | 7.4552 | 0.0071 | 0.0587 | 0.0033 |
| Randall | 2275060012 | 0.0669 | 0.0075 | 0.1053 | 0.0005 | 0.0020 | 0.0000 |
| Randall | 2275050011 | 4.1362 | 0.2247 | 248.4565 | 0.1682 | 0.2633 | 0.1429 |
| Randall | 2275050012 | 16.7306 | 4.8104 | 49.0374 | 0.1752 | 1.0977 | 0.0000 |
| Randall | 2275001000 | 0.0184 | 0.0136 | 0.3288 | 0.0001 | 0.0037 | 0.0001 |
| Reagan | 2275020000 | 0.0255 | 0.0107 | 0.1363 | 0.0003 | 0.0027 | 0.0000 |
| Reagan | 2275050011 | 0.0213 | 0.0011 | 1.4506 | 0.0009 | 0.0016 | 0.0009 |
| Reagan | 2275050012 | 0.7748 | 0.1252 | 1.7691 | 0.0074 | 0.0273 | 0.0000 |
| Reagan | 2275001000 | 0.0044 | 0.1487 | 0.0289 | 0.0017 | 0.0085 | 0.0000 |
| Real | 2275020000 | 0.0340 | 0.0143 | 0.1817 | 0.0005 | 0.0036 | 0.0000 |
| Real | 2275050011 | 0.0776 | 0.0032 | 3.9515 | 0.0025 | 0.0040 | 0.0024 |
| Real | 2275050012 | 1.0331 | 0.1675 | 2.3589 | 0.0098 | 0.0364 | 0.0000 |
| Real | 2275001000 | 0.0058 | 0.1982 | 0.0385 | 0.0022 | 0.0114 | 0.0000 |
| Red River | 2275050011 | 0.2289 | 0.0091 | 11.5622 | 0.0058 | 0.0125 | 0.0071 |
| Red River | 2275050012 | 0.0408 | 0.0190 | 0.0953 | 0.0004 | 0.0039 | 0.0000 |
| Reeves | 2275020000 | 1.3586 | 0.3976 | 4.6484 | 0.0133 | 0.0835 | 0.0006 |
| Reeves | 2275060012 | 0.7205 | 2.5662 | 1.7580 | 0.0321 | 0.1748 | 0.0000 |
| Reeves | 2275050011 | 0.8484 | 0.0219 | 47.2072 | 0.0257 | 0.0471 | 0.0267 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|---------------|------------|--------|-----------------|----------|----------------|-----------------|--------|
| Reeves | 2275050012 | 7.7012 | 7.9589 | 26.1806 | 0.1423 | 1.2043 | 0.0000 |
| Reeves | 2275001000 | 2.4239 | 0.2741 | 3.9543 | 0.0170 | 0.0730 | 0.0000 |
| Refugio | 2275020000 | 0.2913 | 0.0946 | 1.6958 | 0.0029 | 0.0276 | 0.0000 |
| Refugio | 2275050011 | 0.1928 | 0.0059 | 9.5572 | 0.0047 | 0.0097 | 0.0053 |
| Refugio | 2275050012 | 1.3725 | 0.9580 | 3.9617 | 0.0146 | 0.1665 | 0.0000 |
| Refugio | 2275001000 | 0.0219 | 1.5913 | 0.2330 | 0.0179 | 0.0889 | 0.0000 |
| Roberts | 2275020000 | 0.0172 | 0.0047 | 0.0989 | 0.0002 | 0.0015 | 0.0000 |
| Roberts | 2275050011 | 0.0389 | 0.0013 | 2.0871 | 0.0013 | 0.0019 | 0.0012 |
| Roberts | 2275050012 | 0.0364 | 0.0116 | 0.0964 | 0.0003 | 0.0025 | 0.0000 |
| Robertson | 2275050011 | 0.4057 | 0.0225 | 23.9262 | 0.0128 | 0.0282 | 0.0141 |
| Robertson | 2275050012 | 0.0303 | 0.1550 | 0.4558 | 0.0001 | 0.0336 | 0.0000 |
| Robertson | 2275001000 | 0.0007 | 0.0059 | 0.0098 | 0.0000 | 0.0014 | 0.0000 |
| Rockwall | 2275020000 | 0.0445 | 0.0066 | 3.9463 | 0.0007 | 0.0044 | 0.0016 |
| Rockwall | 2275050011 | 4.5175 | 0.1530 | 264.9352 | 0.1517 | 0.2679 | 0.1516 |
| Rockwall | 2275050012 | 1.8338 | 3.2107 | 9.5824 | 0.0302 | 0.4349 | 0.0000 |
| Rockwall | 2275001000 | 0.0168 | 0.0031 | 1.5380 | 0.0000 | 0.0031 | 0.0010 |
| Runnels | 2275020000 | 0.1957 | 0.0821 | 1.0447 | 0.0026 | 0.0208 | 0.0000 |
| Runnels | 2275050011 | 0.2015 | 0.0099 | 13.2003 | 0.0083 | 0.0142 | 0.0080 |
| Runnels | 2275050012 | 5.9503 | 0.9605 | 13.5854 | 0.0565 | 0.2094 | 0.0000 |
| Runnels | 2275001000 | 0.0336 | 1.1397 | 0.2213 | 0.0128 | 0.0653 | 0.0000 |
| Rusk | 2275020000 | 0.0470 | 0.0151 | 1.0143 | 0.0006 | 0.0051 | 0.0005 |
| Rusk | 2275060012 | 0.0157 | 1.1417 | 0.1672 | 0.0128 | 0.0638 | 0.0000 |
| Rusk | 2275050011 | 1.4716 | 0.0386 | 72.1966 | 0.0390 | 0.0721 | 0.0391 |
| Rusk | 2275050012 | 0.6231 | 0.1017 | 1.5430 | 0.0055 | 0.0274 | 0.0000 |
| Rusk | 2275001000 | 0.0214 | 0.0406 | 0.2000 | 0.0000 | 0.0086 | 0.0000 |
| Sabine | 2275020000 | 0.0690 | 0.0210 | 0.3932 | 0.0008 | 0.0063 | 0.0000 |
| Sabine | 2275050011 | 0.0504 | 0.0010 | 2.5807 | 0.0013 | 0.0023 | 0.0014 |
| Sabine | 2275050012 | 0.1280 | 0.0920 | 0.3357 | 0.0013 | 0.0148 | 0.0000 |
| Sabine | 2275001000 | 0.0046 | 0.2924 | 0.0475 | 0.0033 | 0.0165 | 0.0000 |
| San Augustine | 2275020000 | 0.0115 | 0.0035 | 0.0655 | 0.0001 | 0.0011 | 0.0000 |
| San Augustine | 2275050011 | 0.0088 | 0.0002 | 0.4459 | 0.0002 | 0.0004 | 0.0002 |
| San Augustine | 2275050012 | 0.0212 | 0.0107 | 0.0543 | 0.0002 | 0.0019 | 0.0000 |
| San Augustine | 2275001000 | 0.0008 | 0.0487 | 0.0079 | 0.0005 | 0.0028 | 0.0000 |
| San Jacinto | 2275050011 | 0.0386 | 0.0015 | 2.1085 | 0.0014 | 0.0020 | 0.0012 |
| San Jacinto | 2275050012 | 0.0102 | 0.0005 | 0.0230 | 0.0001 | 0.0002 | 0.0000 |
| San Patricio | 2275020000 | 2.8330 | 1.1957 | 10.2025 | 0.0273 | 0.2254 | 0.0005 |
| San Patricio | 2275060012 | 1.0403 | 0.1923 | 1.7492 | 0.0087 | 0.0394 | 0.0000 |
| San Patricio | 2275050011 | 2.7275 | 0.1163 | 149.2094 | 0.0811 | 0.1499 | 0.0816 |
| San Patricio | 2275050012 | 7.7130 | 3.2225 | 33.0055 | 0.0839 | 0.7349 | 0.0000 |
| San Patricio | 2275001000 | 0.9832 | 0.3453 | 3.5235 | 0.0091 | 0.0858 | 0.0000 |
| San Saba | 2275020000 | 0.3527 | 0.1127 | 2.0373 | 0.0043 | 0.0340 | 0.0000 |
| San Saba | 2275050011 | 0.2676 | 0.0090 | 13.3288 | 0.0075 | 0.0134 | 0.0080 |
| San Saba | 2275050012 | 1.5830 | 0.2567 | 3.6767 | 0.0154 | 0.0758 | 0.0000 |
| Schleicher | 2275020000 | 0.0426 | 0.0179 | 0.2271 | 0.0006 | 0.0045 | 0.0000 |
| Schleicher | 2275050011 | 0.0360 | 0.0018 | 2.4368 | 0.0015 | 0.0027 | 0.0015 |
| Schleicher | 2275050012 | 1.2913 | 0.2087 | 2.9484 | 0.0123 | 0.0455 | 0.0000 |
| Schleicher | 2275001000 | 0.0073 | 0.2478 | 0.0481 | 0.0028 | 0.0142 | 0.0000 |
| Scurry | 2275020000 | 0.1462 | 0.1390 | 0.4970 | 0.0019 | 0.0196 | 0.0000 |
| Scurry | 2275060012 | 1.2007 | 1.4354 | 3.1642 | 0.0195 | 0.1523 | 0.0000 |
| Scurry | 2275050011 | 0.2874 | 0.0101 | 16.3802 | 0.0093 | 0.0176 | 0.0097 |
| Scurry | 2275050012 | 2.1380 | 0.5633 | 5.9433 | 0.0197 | 0.1208 | 0.0000 |
| Scurry | 2275001000 | 0.0160 | 0.0202 | 0.1174 | 0.0003 | 0.0048 | 0.0000 |
| Shackelford | 2275020000 | 0.2235 | 0.0635 | 1.1149 | 0.0032 | 0.0188 | 0.0000 |
| Shackelford | 2275050011 | 0.1555 | 0.0032 | 7.6872 | 0.0040 | 0.0068 | 0.0043 |
| Shackelford | 2275050012 | 0.9896 | 0.3677 | 2.1685 | 0.0099 | 0.0725 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|-------------|------------|----------|-----------|-----------|----------------|----------|--------|
| Shackelford | 2275001000 | 0.0087 | 0.6366 | 0.0932 | 0.0072 | 0.0356 | 0.0000 |
| Shelby | 2275020000 | 0.4935 | 0.0942 | 6.0386 | 0.0038 | 0.0305 | 0.0030 |
| Shelby | 2275050011 | 0.9193 | 0.0147 | 46.3556 | 0.0224 | 0.0429 | 0.0253 |
| Shelby | 2275050012 | 14.3817 | 103.3570 | 41.3143 | 1.2212 | 6.3381 | 0.0000 |
| Shelby | 2275001000 | 0.0378 | 0.0101 | 0.2177 | 0.0004 | 0.0032 | 0.0000 |
| Sherman | 2275050011 | 0.0605 | 0.0021 | 2.4858 | 0.0016 | 0.0023 | 0.0015 |
| Smith | 2275020000 | 7.5808 | 22.4972 | 29.8288 | 0.1476 | 2.1093 | 0.0043 |
| Smith | 2275060012 | 1.5797 | 5.5691 | 4.0331 | 0.0712 | 0.3963 | 0.0000 |
| Smith | 2275050011 | 0.9385 | 0.0643 | 52.6040 | 0.0268 | 0.0479 | 0.0306 |
| Smith | 2275050012 | 12.0170 | 8.5413 | 30.1443 | 0.1982 | 1.1099 | 0.0000 |
| Smith | 2275001000 | 0.2508 | 0.1200 | 2.0027 | 0.0022 | 0.0341 | 0.0005 |
| Smith | 2275070000 | 0.0421 | 0.6662 | 2.5914 | 0.0952 | 0.1464 | 0.0000 |
| Smith | 2265008005 | 0.3317 | 0.8223 | 12.8161 | 0.0000 | 0.0000 | 0.0000 |
| Smith | 2270008005 | 0.0334 | 0.2794 | 0.0432 | 0.0022 | 0.0000 | 0.0000 |
| Somervell | 2275050011 | 0.1133 | 0.0039 | 4.6567 | 0.0029 | 0.0044 | 0.0027 |
| Somervell | 2275050012 | 0.0011 | 0.0393 | 0.0143 | 0.0000 | 0.0049 | 0.0000 |
| Starr | 2275020000 | 0.4248 | 0.2037 | 2.4504 | 0.0077 | 0.0496 | 0.0000 |
| Starr | 2275050011 | 0.0720 | 0.0019 | 3.5852 | 0.0023 | 0.0033 | 0.0021 |
| Starr | 2275050012 | 0.9493 | 0.5514 | 2.2763 | 0.0117 | 0.0825 | 0.0000 |
| Starr | 2275001000 | 0.0256 | 1.8421 | 0.2730 | 0.0207 | 0.1031 | 0.0000 |
| Stephens | 2275020000 | 0.2791 | 0.0885 | 2.0201 | 0.0030 | 0.0267 | 0.0002 |
| Stephens | 2275060012 | 0.0283 | 0.0709 | 0.3380 | 0.0008 | 0.0164 | 0.0000 |
| Stephens | 2275050011 | 0.7796 | 0.0325 | 51.1916 | 0.0326 | 0.0530 | 0.0297 |
| Stephens | 2275050012 | 8.9648 | 2.4074 | 24.0151 | 0.0782 | 0.5591 | 0.0000 |
| Stephens | 2275001000 | 0.0255 | 0.0163 | 0.8921 | 0.0000 | 0.0044 | 0.0005 |
| Sterling | 2275050011 | 0.0604 | 0.0021 | 2.5571 | 0.0016 | 0.0024 | 0.0015 |
| Sterling | 2275050012 | 0.0015 | 0.0001 | 0.0034 | 0.0000 | 0.0000 | 0.0000 |
| Stonewall | 2275020000 | 0.0319 | 0.0091 | 0.1593 | 0.0005 | 0.0027 | 0.0000 |
| Stonewall | 2275050011 | 0.2525 | 0.0084 | 10.5238 | 0.0065 | 0.0098 | 0.0061 |
| Stonewall | 2275050012 | 0.1407 | 0.0525 | 0.3083 | 0.0014 | 0.0103 | 0.0000 |
| Stonewall | 2275001000 | 0.0012 | 0.0909 | 0.0133 | 0.0010 | 0.0051 | 0.0000 |
| Sutton | 2275020000 | 0.0426 | 0.0179 | 0.2271 | 0.0006 | 0.0045 | 0.0000 |
| Sutton | 2275050011 | 0.0784 | 0.0033 | 4.1769 | 0.0026 | 0.0043 | 0.0025 |
| Sutton | 2275050012 | 1.2921 | 0.2364 | 2.9583 | 0.0123 | 0.0489 | 0.0000 |
| Sutton | 2275001000 | 0.0073 | 0.2478 | 0.0481 | 0.0028 | 0.0142 | 0.0000 |
| Swisher | 2275020000 | 0.1744 | 0.0342 | 0.7579 | 0.0017 | 0.0112 | 0.0000 |
| Swisher | 2275050011 | 0.8236 | 0.0292 | 37.7758 | 0.0221 | 0.0367 | 0.0225 |
| Swisher | 2275050012 | 0.7909 | 0.2749 | 1.9026 | 0.0081 | 0.0523 | 0.0000 |
| Swisher | 2275001000 | 0.0168 | 0.2898 | 0.0993 | 0.0032 | 0.0181 | 0.0000 |
| Tarrant | 2275020000 | 414.4202 | 3136.1441 | 2889.0389 | 28.4551 | 282.0852 | 0.0790 |
| Tarrant | 2275060012 | 16.7153 | 88.0154 | 66.0107 | 1.0869 | 7.0606 | 0.0000 |
| Tarrant | 2275050011 | 39.1437 | 2.3394 | 2083.3415 | 1.0007 | 1.9122 | 1.2302 |
| Tarrant | 2275050012 | 198.4897 | 233.4482 | 556.1221 | 3.6096 | 25.4783 | 0.0000 |
| Tarrant | 2275001000 | 63.4495 | 124.4496 | 364.9921 | 1.2577 | 14.0479 | 0.0188 |
| Tarrant | 2275070000 | 4.7414 | 58.2394 | 91.8354 | 8.1785 | 9.2737 | 0.0000 |
| Tarrant | 2265008005 | 14.5961 | 30.0997 | 513.6839 | 0.0000 | 0.0000 | 0.0000 |
| Tarrant | 2270008005 | 4.0712 | 27.7184 | 8.0221 | 0.7868 | 0.0000 | 0.0000 |
| Taylor | 2275020000 | 9.2592 | 35.8642 | 32.7221 | 0.1988 | 3.1818 | 0.0019 |
| Taylor | 2275060012 | 0.7492 | 3.4204 | 2.1095 | 0.0358 | 0.2505 | 0.0000 |
| Taylor | 2275050011 | 2.7380 | 0.1663 | 141.4826 | 0.0898 | 0.1374 | 0.0833 |
| Taylor | 2275050012 | 9.1471 | 5.3542 | 23.5962 | 0.1223 | 0.7677 | 0.0000 |
| Taylor | 2275001000 | 11.9467 | 17.8601 | 63.2627 | 0.2274 | 2.6034 | 0.0006 |
| Taylor | 2275070000 | 0.0320 | 0.3232 | 0.9327 | 0.0480 | 0.0808 | 0.0000 |
| Taylor | 2265008005 | 0.5425 | 1.3276 | 20.7876 | 0.0000 | 0.0000 | 0.0000 |
| Taylor | 2270008005 | 0.0475 | 0.4064 | 0.0568 | 0.0028 | 0.0000 | 0.0000 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|--------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Terrell | 2275050011 | 0.0514 | 0.0021 | 3.1176 | 0.0022 | 0.0031 | 0.0018 |
| Terrell | 2275050012 | 0.0126 | 0.0009 | 0.0291 | 0.0001 | 0.0003 | 0.0000 |
| Terry | 2275020000 | 0.4070 | 0.0798 | 1.7684 | 0.0040 | 0.0262 | 0.0000 |
| Terry | 2275050011 | 0.6569 | 0.0239 | 33.7803 | 0.0174 | 0.0346 | 0.0209 |
| Terry | 2275050012 | 1.7996 | 0.6782 | 4.3475 | 0.0186 | 0.1260 | 0.0000 |
| Terry | 2275001000 | 0.0391 | 0.6762 | 0.2318 | 0.0075 | 0.0422 | 0.0000 |
| Throckmorton | 2275020000 | 0.0052 | 0.0016 | 0.0195 | 0.0001 | 0.0004 | 0.0000 |
| Throckmorton | 2275050011 | 0.0031 | 0.0001 | 0.1770 | 0.0001 | 0.0002 | 0.0001 |
| Throckmorton | 2275050012 | 0.0416 | 0.0178 | 0.0952 | 0.0004 | 0.0029 | 0.0000 |
| Throckmorton | 2275001000 | 0.0007 | 0.0395 | 0.0066 | 0.0004 | 0.0022 | 0.0000 |
| Titus | 2275020000 | 0.3965 | 0.2491 | 11.5975 | 0.0073 | 0.0456 | 0.0060 |
| Titus | 2275060012 | 0.0154 | 0.8750 | 0.1729 | 0.0097 | 0.0508 | 0.0000 |
| Titus | 2275050011 | 1.8619 | 0.1112 | 102.0990 | 0.0569 | 0.1059 | 0.0581 |
| Titus | 2275050012 | 26.1234 | 4.1651 | 65.9086 | 0.2428 | 1.1302 | 0.0000 |
| Titus | 2275001000 | 0.0078 | 0.0105 | 0.4375 | 0.0000 | 0.0032 | 0.0003 |
| Tom Green | 2275020000 | 12.6825 | 42.3894 | 49.5656 | 0.2847 | 3.9079 | 0.0040 |
| Tom Green | 2275060012 | 0.3589 | 4.7014 | 1.5625 | 0.0523 | 0.2861 | 0.0000 |
| Tom Green | 2275050011 | 1.5147 | 0.1117 | 71.7681 | 0.0378 | 0.0710 | 0.0405 |
| Tom Green | 2275050012 | 16.2077 | 9.6118 | 42.8438 | 0.2050 | 1.2534 | 0.0000 |
| Tom Green | 2275001000 | 20.3139 | 3.8532 | 89.2211 | 0.2385 | 1.2731 | 0.0005 |
| Tom Green | 2275070000 | 0.0801 | 0.8320 | 1.9119 | 0.1199 | 0.1928 | 0.0000 |
| Tom Green | 2265008005 | 0.7518 | 1.8388 | 28.9901 | 0.0000 | 0.0000 | 0.0000 |
| Tom Green | 2270008005 | 0.2270 | 2.0646 | 0.4926 | 0.0798 | 0.0000 | 0.0000 |
| Travis | 2275020000 | 77.8174 | 495.0554 | 511.6040 | 3.5512 | 45.3300 | 0.0385 |
| Travis | 2275060012 | 3.5353 | 17.1033 | 14.8650 | 0.2245 | 1.5382 | 0.0000 |
| Travis | 2275050011 | 7.4725 | 0.3958 | 376.8005 | 0.1762 | 0.4015 | 0.2087 |
| Travis | 2275050012 | 41.9743 | 38.5956 | 117.4135 | 0.7462 | 4.6992 | 0.0000 |
| Travis | 2275001000 | 6.8355 | 17.4317 | 36.0937 | 0.1378 | 2.3946 | 0.0025 |
| Travis | 2275070000 | 1.5650 | 18.8720 | 20.0478 | 2.1451 | 2.9985 | 0.0000 |
| Travis | 2265008005 | 4.1596 | 7.9895 | 141.0041 | 0.0000 | 0.0000 | 0.0000 |
| Travis | 2270008005 | 1.0392 | 6.8781 | 2.0624 | 0.0426 | 0.0000 | 0.0000 |
| Trinity | 2275020000 | 0.2761 | 0.0840 | 1.5729 | 0.0031 | 0.0253 | 0.0000 |
| Trinity | 2275050011 | 0.3018 | 0.0079 | 15.8009 | 0.0086 | 0.0145 | 0.0089 |
| Trinity | 2275050012 | 0.5368 | 0.2978 | 1.3771 | 0.0053 | 0.0510 | 0.0000 |
| Trinity | 2275001000 | 0.0182 | 1.1697 | 0.1901 | 0.0131 | 0.0661 | 0.0000 |
| Tyler | 2275020000 | 0.2671 | 0.0707 | 1.5260 | 0.0026 | 0.0228 | 0.0000 |
| Tyler | 2275050011 | 0.1172 | 0.0043 | 7.8801 | 0.0050 | 0.0081 | 0.0047 |
| Tyler | 2275050012 | 0.1784 | 0.0715 | 0.3523 | 0.0014 | 0.0123 | 0.0000 |
| Upshur | 2275020000 | 0.0626 | 0.0138 | 5.0200 | 0.0009 | 0.0102 | 0.0032 |
| Upshur | 2275050011 | 4.7036 | 0.8042 | 131.3888 | 0.0865 | 0.2166 | 0.0728 |
| Upshur | 2275050012 | 1.8053 | 1.5661 | 7.8365 | 0.0197 | 0.2586 | 0.0000 |
| Upton | 2275020000 | 0.0242 | 0.0097 | 0.1423 | 0.0004 | 0.0027 | 0.0000 |
| Upton | 2275050011 | 0.0143 | 0.0003 | 0.8023 | 0.0004 | 0.0008 | 0.0004 |
| Upton | 2275050012 | 0.1822 | 0.0686 | 0.4574 | 0.0016 | 0.0133 | 0.0000 |
| Upton | 2275001000 | 0.0014 | 0.0560 | 0.0098 | 0.0006 | 0.0032 | 0.0000 |
| Uvalde | 2275020000 | 1.0777 | 0.2463 | 2.8075 | 0.0097 | 0.0494 | 0.0004 |
| Uvalde | 2275060012 | 0.4581 | 2.0257 | 1.4322 | 0.0278 | 0.1417 | 0.0000 |
| Uvalde | 2275050011 | 0.8000 | 0.0362 | 42.2344 | 0.0271 | 0.0451 | 0.0232 |
| Uvalde | 2275050012 | 9.0633 | 3.3195 | 22.4512 | 0.1094 | 0.5856 | 0.0000 |
| Uvalde | 2275001000 | 0.5106 | 0.0635 | 1.2654 | 0.0048 | 0.0172 | 0.0000 |
| Val Verde | 2275020000 | 11.6487 | 18.5773 | 36.7927 | 0.1925 | 2.0080 | 0.0008 |
| Val Verde | 2275060012 | 0.0363 | 0.4484 | 0.2171 | 0.0052 | 0.0327 | 0.0000 |
| Val Verde | 2275050011 | 0.4551 | 0.0154 | 23.4673 | 0.0133 | 0.0228 | 0.0131 |
| Val Verde | 2275050012 | 4.2641 | 2.6794 | 13.7608 | 0.0628 | 0.4121 | 0.0000 |
| Val Verde | 2275001000 | 53.6148 | 9.5580 | 303.4552 | 0.5813 | 3.6221 | 0.0001 |

| County | SCC* | VOC | NO _x | CO | PM10/ PM2.5 | SO ₂ | Pb |
|------------|------------|---------|-----------------|----------|----------------|-----------------|--------|
| Val Verde | 2275070000 | 0.0210 | 0.1875 | 0.5965 | 0.0300 | 0.0460 | 0.0000 |
| Val Verde | 2265008005 | 0.2240 | 0.5452 | 8.6346 | 0.0000 | 0.0000 | 0.0000 |
| Val Verde | 2270008005 | 0.0941 | 0.8634 | 0.2147 | 0.0361 | 0.0000 | 0.0000 |
| Van Zandt | 2275020000 | 0.0274 | 0.0103 | 0.1586 | 0.0004 | 0.0030 | 0.0000 |
| Van Zandt | 2275050011 | 0.6420 | 0.0193 | 32.3230 | 0.0197 | 0.0308 | 0.0184 |
| Van Zandt | 2275050012 | 0.1538 | 0.1232 | 0.3529 | 0.0011 | 0.0184 | 0.0000 |
| Van Zandt | 2275001000 | 0.0026 | 0.1877 | 0.0275 | 0.0021 | 0.0105 | 0.0000 |
| Victoria | 2275020000 | 5.0213 | 1.6665 | 20.2659 | 0.0649 | 0.3630 | 0.0017 |
| Victoria | 2275060012 | 0.3297 | 3.9833 | 1.4336 | 0.0508 | 0.2634 | 0.0000 |
| Victoria | 2275050011 | 0.4078 | 0.0157 | 22.1791 | 0.0126 | 0.0210 | 0.0121 |
| Victoria | 2275050012 | 7.9289 | 10.4449 | 25.7820 | 0.1689 | 1.1338 | 0.0000 |
| Victoria | 2275001000 | 15.7179 | 2.7208 | 56.5645 | 0.1442 | 0.8897 | 0.0003 |
| Victoria | 2275070000 | 0.0259 | 0.4562 | 1.4362 | 0.0657 | 0.0914 | 0.0000 |
| Victoria | 2265008005 | 0.2829 | 0.7792 | 11.9956 | 0.0000 | 0.0000 | 0.0000 |
| Victoria | 2270008005 | 0.1379 | 0.8568 | 0.2319 | 0.0291 | 0.0000 | 0.0000 |
| Walker | 2275020000 | 1.0769 | 0.2200 | 3.8087 | 0.0096 | 0.0629 | 0.0000 |
| Walker | 2275060012 | 2.4670 | 13.3692 | 7.5578 | 0.1651 | 0.9155 | 0.0000 |
| Walker | 2275050011 | 1.3595 | 0.0576 | 81.7141 | 0.0430 | 0.0845 | 0.0467 |
| Walker | 2275050012 | 16.5464 | 5.4978 | 47.6511 | 0.1720 | 1.0926 | 0.0000 |
| Walker | 2275001000 | 0.2785 | 0.0950 | 2.1168 | 0.0024 | 0.0254 | 0.0002 |
| Waller | 2275020000 | 1.7124 | 1.3470 | 8.8733 | 0.0254 | 0.1868 | 0.0019 |
| Waller | 2275060012 | 0.8767 | 4.1353 | 2.8976 | 0.0556 | 0.3093 | 0.0000 |
| Waller | 2275050011 | 2.4881 | 0.0923 | 136.5985 | 0.0840 | 0.1207 | 0.0790 |
| Waller | 2275050012 | 7.8071 | 6.0891 | 24.6729 | 0.1246 | 0.7970 | 0.0000 |
| Waller | 2275001000 | 0.2058 | 0.0334 | 1.9661 | 0.0028 | 0.0118 | 0.0007 |
| Ward | 2275020000 | 0.8735 | 0.6555 | 5.3699 | 0.0120 | 0.1388 | 0.0000 |
| Ward | 2275050011 | 0.2784 | 0.0070 | 14.4820 | 0.0070 | 0.0129 | 0.0083 |
| Ward | 2275050012 | 1.3566 | 0.5784 | 3.4526 | 0.0122 | 0.1090 | 0.0000 |
| Ward | 2275001000 | 0.1022 | 0.6807 | 1.3298 | 0.0046 | 0.0899 | 0.0000 |
| Washington | 2275020000 | 4.5103 | 0.9347 | 12.9066 | 0.0382 | 0.2148 | 0.0012 |
| Washington | 2275060012 | 1.3825 | 7.4730 | 4.9464 | 0.0846 | 0.5411 | 0.0000 |
| Washington | 2275050011 | 1.7060 | 0.0818 | 93.0616 | 0.0443 | 0.0989 | 0.0514 |
| Washington | 2275050012 | 10.9051 | 6.3857 | 29.8368 | 0.1180 | 0.9721 | 0.0000 |
| Washington | 2275001000 | 0.0210 | 0.0746 | 0.2357 | 0.0000 | 0.0164 | 0.0000 |
| Webb | 2275020000 | 31.7920 | 126.6753 | 112.2233 | 1.5886 | 12.0397 | 0.0010 |
| Webb | 2275060012 | 0.5114 | 2.2897 | 1.5931 | 0.0316 | 0.1696 | 0.0000 |
| Webb | 2275050011 | 0.8200 | 0.0221 | 44.0960 | 0.0289 | 0.0397 | 0.0252 |
| Webb | 2275050012 | 25.2808 | 23.2387 | 72.2328 | 0.4465 | 3.0173 | 0.0000 |
| Webb | 2275001000 | 2.4591 | 1.4847 | 7.8609 | 0.0304 | 0.2248 | 0.0001 |
| Webb | 2275070000 | 0.3663 | 3.6989 | 6.5095 | 0.5868 | 0.6772 | 0.0000 |
| Webb | 2265008005 | 1.1424 | 2.4683 | 40.8201 | 0.0000 | 0.0000 | 0.0000 |
| Webb | 2270008005 | 0.2663 | 1.9270 | 0.5116 | 0.0526 | 0.0000 | 0.0000 |
| Wharton | 2275020000 | 0.4563 | 0.2051 | 0.9760 | 0.0057 | 0.0339 | 0.0000 |
| Wharton | 2275060012 | 0.0752 | 1.0533 | 0.3340 | 0.0119 | 0.0635 | 0.0000 |
| Wharton | 2275050011 | 1.9168 | 0.0712 | 99.1442 | 0.0618 | 0.0939 | 0.0575 |
| Wharton | 2275050012 | 3.4133 | 1.5174 | 9.2823 | 0.0351 | 0.2257 | 0.0000 |
| Wharton | 2275001000 | 0.0171 | 0.0549 | 0.2739 | 0.0002 | 0.0114 | 0.0001 |
| Wheeler | 2275020000 | 0.1106 | 0.0366 | 0.5898 | 0.0010 | 0.0099 | 0.0000 |
| Wheeler | 2275050011 | 0.0595 | 0.0025 | 3.1642 | 0.0019 | 0.0032 | 0.0019 |
| Wheeler | 2275050012 | 0.4045 | 0.2179 | 0.9399 | 0.0037 | 0.0408 | 0.0000 |
| Wheeler | 2275001000 | 0.0111 | 0.3846 | 0.0971 | 0.0044 | 0.0219 | 0.0000 |
| Wichita | 2275020000 | 22.3606 | 32.8874 | 88.4361 | 0.3104 | 3.4141 | 0.0146 |
| Wichita | 2275060012 | 5.9848 | 3.8095 | 13.8612 | 0.0906 | 0.3561 | 0.0000 |
| Wichita | 2275050011 | 2.8980 | 0.0909 | 148.2391 | 0.0741 | 0.1481 | 0.0843 |
| Wichita | 2275050012 | 18.2717 | 6.9403 | 47.8626 | 0.1979 | 1.2452 | 0.0000 |

| County | SCC* | VOC | NOx | CO | PM10/ PM2.5 | SO2 | Pb |
|------------|------------|----------|---------|-----------|----------------|---------|--------|
| Wichita | 2275001000 | 315.7348 | 64.5462 | 2115.1125 | 3.1617 | 26.0016 | 0.0063 |
| Wichita | 2275070000 | 0.0318 | 0.2828 | 0.6501 | 0.0426 | 0.0667 | 0.0000 |
| Wichita | 2265008005 | 0.3196 | 0.7801 | 18.1778 | 0.0000 | 0.0000 | 0.0000 |
| Wichita | 2270008005 | 4.5162 | 43.7350 | 12.0264 | 2.2525 | 0.0000 | 0.0000 |
| Wilbarger | 2275020000 | 0.1597 | 0.0281 | 1.4875 | 0.0011 | 0.0100 | 0.0006 |
| Wilbarger | 2275060012 | 0.0689 | 0.8626 | 0.2575 | 0.0102 | 0.0493 | 0.0000 |
| Wilbarger | 2275050011 | 0.6075 | 0.0567 | 31.0058 | 0.0182 | 0.0347 | 0.0172 |
| Wilbarger | 2275050012 | 3.6073 | 1.8690 | 11.3615 | 0.0352 | 0.3234 | 0.0000 |
| Wilbarger | 2275001000 | 0.0076 | 0.0106 | 0.2521 | 0.0000 | 0.0025 | 0.0001 |
| Willacy | 2275020000 | 0.0452 | 0.0217 | 0.2605 | 0.0008 | 0.0053 | 0.0000 |
| Willacy | 2275050011 | 0.0712 | 0.0026 | 3.9264 | 0.0026 | 0.0037 | 0.0023 |
| Willacy | 2275050012 | 0.1192 | 0.0596 | 0.2831 | 0.0014 | 0.0092 | 0.0000 |
| Willacy | 2275001000 | 0.0027 | 0.1958 | 0.0290 | 0.0022 | 0.0110 | 0.0000 |
| Williamson | 2275020000 | 10.4466 | 1.6828 | 66.3540 | 0.0897 | 0.4921 | 0.0251 |
| Williamson | 2275060012 | 0.7376 | 3.8090 | 2.3562 | 0.0543 | 0.2761 | 0.0000 |
| Williamson | 2275050011 | 10.5439 | 0.8631 | 598.6065 | 0.2471 | 0.4763 | 0.3612 |
| Williamson | 2275050012 | 36.5341 | 9.8266 | 90.8811 | 0.3196 | 2.0072 | 0.0000 |
| Williamson | 2275001000 | 0.5985 | 0.1156 | 8.8243 | 0.0050 | 0.0367 | 0.0035 |
| Williamson | 2275070000 | 0.0201 | 0.3180 | 1.3684 | 0.0481 | 0.0720 | 0.0000 |
| Williamson | 2265008005 | 0.3493 | 0.9216 | 14.1915 | 0.0000 | 0.0000 | 0.0000 |
| Williamson | 2270008005 | 0.0782 | 0.3395 | 0.0796 | 0.0014 | 0.0000 | 0.0000 |
| Wilson | 2275050011 | 0.2275 | 0.0083 | 11.1258 | 0.0071 | 0.0104 | 0.0065 |
| Wilson | 2275050012 | 0.0347 | 0.0018 | 0.0781 | 0.0002 | 0.0008 | 0.0000 |
| Winkler | 2275020000 | 0.2141 | 0.0860 | 1.2567 | 0.0032 | 0.0238 | 0.0000 |
| Winkler | 2275050011 | 0.0991 | 0.0018 | 5.4289 | 0.0025 | 0.0052 | 0.0030 |
| Winkler | 2275050012 | 1.6029 | 0.6448 | 4.0382 | 0.0144 | 0.1226 | 0.0000 |
| Winkler | 2275001000 | 0.0126 | 0.4945 | 0.0863 | 0.0056 | 0.0279 | 0.0000 |
| Wise | 2275020000 | 0.4772 | 0.0457 | 5.0096 | 0.0045 | 0.0146 | 0.0023 |
| Wise | 2275060012 | 0.5446 | 0.0704 | 0.8967 | 0.0043 | 0.0187 | 0.0000 |
| Wise | 2275050011 | 5.0728 | 0.2815 | 283.1712 | 0.1475 | 0.3208 | 0.1634 |
| Wise | 2275050012 | 3.9972 | 3.5125 | 14.3543 | 0.0466 | 0.5948 | 0.0000 |
| Wise | 2275001000 | 0.4951 | 0.0898 | 28.2426 | 0.0004 | 0.0506 | 0.0174 |
| Wood | 2275020000 | 0.2280 | 0.0605 | 7.5162 | 0.0018 | 0.0277 | 0.0044 |
| Wood | 2275050011 | 5.0007 | 0.1450 | 268.8971 | 0.1466 | 0.2540 | 0.1523 |
| Wood | 2275050012 | 1.7697 | 0.5136 | 5.8194 | 0.0153 | 0.1212 | 0.0000 |
| Wood | 2275001000 | 0.1191 | 0.4122 | 0.7525 | 0.0051 | 0.0337 | 0.0000 |
| Yoakum | 2275020000 | 0.2907 | 0.0570 | 1.2632 | 0.0029 | 0.0187 | 0.0000 |
| Yoakum | 2275050011 | 0.4692 | 0.0171 | 24.1288 | 0.0124 | 0.0247 | 0.0149 |
| Yoakum | 2275050012 | 1.2847 | 0.4564 | 3.0953 | 0.0133 | 0.0864 | 0.0000 |
| Yoakum | 2275001000 | 0.0279 | 0.4830 | 0.1655 | 0.0054 | 0.0302 | 0.0000 |
| Young | 2275020000 | 0.9765 | 0.2880 | 4.0443 | 0.0160 | 0.0725 | 0.0003 |
| Young | 2275060012 | 0.0800 | 3.7820 | 0.7009 | 0.0423 | 0.2157 | 0.0000 |
| Young | 2275050011 | 0.7616 | 0.1060 | 42.2805 | 0.0202 | 0.0630 | 0.0239 |
| Young | 2275050012 | 12.8516 | 4.0574 | 33.6625 | 0.1295 | 0.8393 | 0.0000 |
| Young | 2275001000 | 0.0938 | 3.6508 | 2.1171 | 0.0409 | 0.2087 | 0.0009 |
| Zapata | 2275020000 | 0.2260 | 0.1485 | 1.2163 | 0.0068 | 0.0345 | 0.0000 |
| Zapata | 2275050011 | 0.2816 | 0.0127 | 16.1638 | 0.0092 | 0.0168 | 0.0099 |
| Zapata | 2275050012 | 1.0157 | 0.3127 | 2.1578 | 0.0088 | 0.0600 | 0.0000 |
| Zapata | 2275001000 | 0.0062 | 0.4480 | 0.0656 | 0.0050 | 0.0250 | 0.0000 |
| Zavala | 2275050011 | 0.1951 | 0.0067 | 8.0334 | 0.0050 | 0.0076 | 0.0047 |
| Zavala | 2275050012 | 0.0004 | 0.0000 | 0.0009 | 0.0000 | 0.0000 | 0.0000 |

*SCC represents the following categories: 2275020000: Commercial Aviation, 2275060012: Air taxis: Turbine Driven, 2275050011: General Aviation: Piston Driven, 2275050012: General Aviation: Turbine Driven, 2275001000: Military, 2275070000: APUs, 2270008005: GSE: Diesel-fueled, 2265008005: GSE: Gasoline-fueled
Summer weekday emissions were obtained by dividing the annual emissions by 365 days.

APPENDIX G: UNCONTROLLED AND CONTROLLED EMISSION RAW DATA (ELECTRONIC ONLY)

Available from the TCEQ upon request.

APPENDIX H: QUALITY ASSURANCE AND QUALITY CONTROL RESULTS (ELECTRONIC ONLY)

Available from the TCEQ upon request.