APPENDIX 9

AIRCRAFT EMISSIONS INVENTORY FOR TEXAS STATEWIDE 2014 AERR INVENTORY AND 2008 THROUGH 2040 TREND ANALYSIS YEARS

Eastern Research Group, Inc.

Aircraft Emissions Inventory for Texas Statewide 2014 AERR Inventory and 2008 to 2040 Trend Analysis Years

Final-Revised

Prepared for:

Texas Commission on Environmental Quality

Air Quality Division

Prepared by:

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AIRCRAFT EMISSIONS INVENTORY FOR TEXAS STATEWIDE 2014 AERR INVENTORY AND 2008 – 2040 TREND ANALYSIS YEARS

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1. Explanation of revisions are summarized in section 2.1 Revisions

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1.0 Executive Summary

The purpose of this study is to develop annual and summer week-day emission inventories for Texas airport emissions and activity data for calendar year 2014 and associated trend inventories for years 2008 to 2040. Eastern Research Group (ERG) developed emissions for criteria pollutants, precursor pollutants, and hazardous air pollutants (HAPs) where appropriate data are available.

The emissions associated with airport activities include:

- Commercial aviation (SCC: 2275020000)
- Air taxis
  - Piston driven (SCC: 2275060011)
  - Turbine driven (SCC: 2275060012)
- General aviation
  - Piston driven (SCC: 2275050011)
  - Turbine driven (SCC: 2275050012)
- Military (SCC: 2275001000)
- Auxiliary Power Units (SCC: 2275070000)
- Ground Support Equipment
  - Compressed natural gas (CNG)-fueled (SCC: 2268008005)
  - Diesel-fueled (SCC: 2270008005)
  - Gasoline-fueled (SCC: 2265008005)
  - Liquefied petroleum gas (LPG)-fueled (SCC: 2267008005).

To estimate emissions from these sources, ERG compiled and supplemented base year 2014 activity data provided by local airports with publicly available activity data. Two approaches were used to estimate emissions from the compiled activity data. ERG used the Federal Aviation Administration's (FAA) Emissions and Dispersion Modeling System (EDMS) if the activity data were aircraft model-specific. If such detailed data were not available, then ERG applied a more general approach for different aircraft types (i.e., air taxis, general aviation, and military aircraft) using United States (U.S.) Environmental Protection Agency (EPA) approved generic emission estimating procedures. Additional information on methodology are included later in the document.

Locally based activity and emissions were obtained, allowing for a more accurate and complete data set. Table 1-1 shows the percentage of activity data collected from local airports and the percentage of data supplemented using publicly available data. The data provided by local airports accounts for 54% of the activity for 2014.

Table 1-1. 2014 Annual Landing and Takeoff (LTO) Summary by Data Source

Data Source	LTOs	Percentage
Local-Airport-Provided Data	3,417,835	54%
Publicly Available Data	2,953,340	46%
Total	6,371,175	100%

In 2014, general aviation aircraft outfitted with piston engines accounted for 43% of the total aircraft activities, including activity associated with auxiliary power units and ground support equipment. General aviation aircraft equipped with turbine engines, commercial aircraft, air taxis with turbine engines, military aircraft, and air taxis with piston engines account for 23%, 20%, 6%, 6%, and 1% of the total aircraft activities, respectively.

2.0 Introduction

2.1 Revisions

Revisions to the inventory were completed in early 2016. Certain records were deleted due to a software glitch that incorrected populated invalid pollutant codes that were subsequently removed from the inventory. The software was rerun on the entire inventory and checked to confirm no invalid pollutants codes were present. Two tables comparing the revised inventory to the original inventory are included in Appendix F.

2.2 Purpose and Objectives

The purpose of this study is to develop statewide annual and average summer week-day emission inventories for Texas airport emissions and activity data for the calendar year 2014 and associated trend inventories for years 2008 to 2040. The 2014 annual and typical ozone season day inventory includes all counties with airport activities in the state of Texas. Zero emissions were added to the TexAER files where applicable.

ERG developed emissions for criteria pollutants, precursor pollutants, and hazardous air pollutants (HAPs) where appropriate data are available. The criteria pollutants and precursors will include: nitrogen oxide (NO_X), volatile organic compounds (VOCs), carbon monoxide (CO), lead and lead compounds (Pb), particulate matter with an aerodynamic diameter equal to or less than 10 microns and equal to or less than 2.5 microns (PM_{10} and $PM_{2.5}$, respectively), and sulfur dioxide (SO_2). Lead emissions will be developed for air taxis and general aviation activities associated with piston aircraft using aviation gasoline.

To develop the comprehensive inventories for the aircraft source category, ERG conducted the following tasks:

- Compile 2014 activity data from local airports and publicly available data sources.
- Calculate 2014 emission estimates using EDMS 5.1.4.1 and generic emission factors.
- Project 2014 activity and emission estimates to 2008-2040 using the FAA's Terminal Area Forecast dataset (TAF).
- Calculate average summer weekday emissions.
- Summarize activity and emissions data.

The methods used for this study comply with the EPA guidance on developing aircraft emissions inventories as stated in the *Quality Assurance Project Plan for the Development of a Commercial Aircraft Hazardous Air Pollutants Emission Inventory Methodology*[1]. It should be noted that the engine-specific factors used in the model were

derived from testing data used to certify the engines and account for U.S. and international emission standards.

2.3 Report Organization

Section 3.0 of this report identifies the national and local activity data sources included in this study. This section describes how ERG pulled from each activity data source to compile the 2014 activity dataset. This section also documents any assumptions or manipulations that had to be made to each data source to facilitate compiling the activity dataset.

Section 4.0 summarizes the emissions estimation methodology and the results of the 2014 emissions inventories. This section also summarizes the activity and emission projection procedures for years 2008 to 2040 and the results of the trend years' emissions inventories. This section includes summary emissions tables on a statewide basis, county-level basis, and by SCC for criteria pollutants.

Additional criteria and HAP emissions associated with airport activities are included in the excel spreadsheet submitted with this report for 2008 to 2040.

2.4 Background

This report covers airport activities as point sources. The aircraft source category includes all aircraft types used for public, private, and military purposes. The following are the four typical aircraft types and their Source Classification Codes (SCC):

- Commercial aviation (SCC: 2275020000)
- Air taxis
  - Piston driven (SCC: 2275060011)
  - Turbine driven (SCC: 2275060012)
- General aviation
  - Piston driven (SCC: 2275050011)
  - Turbine driven (SCC: 2275050012)
- Military (SCC: 2275001000)

Commercial aircraft transport passengers, freight, or both tend to be larger aircraft that are driven with jet engines. Air taxis (AT), which are also considered to be commercial aircraft, are usually smaller aircraft (less than 60 passengers) that operate on a limited basis compared to larger commercial aircraft that carry between 60 and 800 passengers. General aviation (GA) includes most other aircraft used for recreational flying and personal transportation. Aircraft that support business travel, usually on an unscheduled basis, are included in the GA category.

The national AT and GA fleet includes both jet and propeller-driven aircraft. Most of the AT and GA fleet are comprised of piston- (or propeller-) driven aircraft, though these aircraft types also include smaller business jets. According to the EPA, propeller-driven aircraft and jet- (or turbine-driven) aircraft account for 72.1% and 27.9%, respectively, of all GA emissions. Propeller-driven aircraft and jet- (or turbine-) driven aircraft account for 21.8% and 78.2%, respectively, of all AT emissions.[2] EPA has used this estimate as a national-scale default value in recently published studies investigating lead emissions from aviation sources.

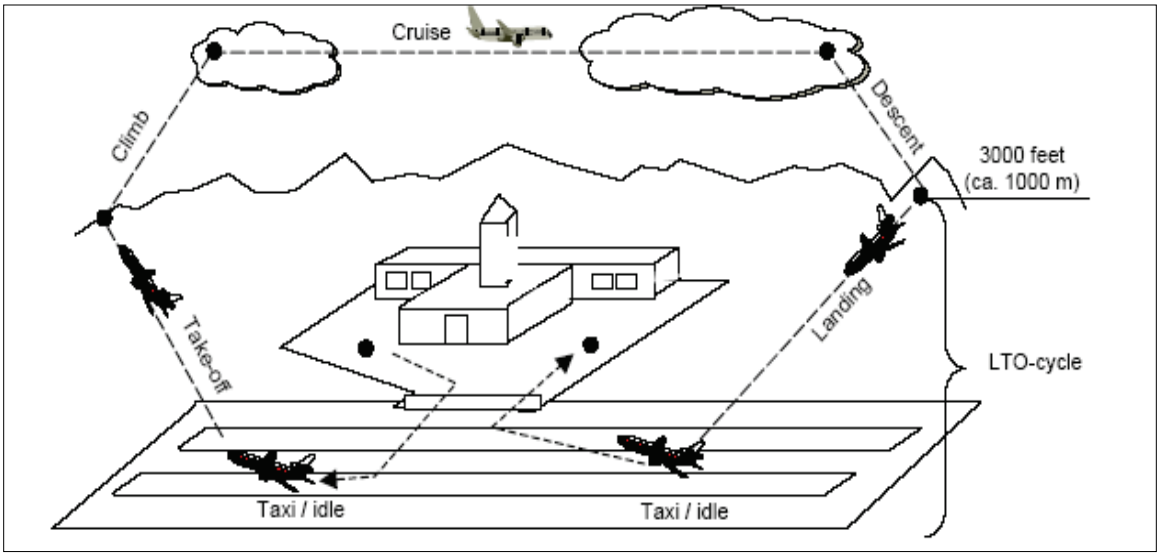
Military aircraft comprise a wide range of aircraft types such as training aircraft, fighter jets, helicopters, and jet- and propeller-driven cargo planes of varying sizes. Because of a lack of information concerning the make-up of the military aircraft fleet, EPA has assumed that most military aircraft are jet-powered.

Aircraft emissions are associated with an aircraft's LTO cycle. The cycle begins when the aircraft approaches the airport on its descent from the mixing height (generally 3,000 foot altitude), then lands and taxis to the gate, where it idles during passenger deplaning. The cycle continues as the aircraft idles during passenger boarding, taxis back onto the runway, takes off, and ascends (or climbs out) to the altitude of the mixing height. Figure 2-1 illustrates the six specific operating modes in an LTO cycle:

- Approach
- Landing
- Taxi/idle-in
- Taxi/idle-out
- Idling
- Takeoff
- Climb out.

The LTO cycle provides a basis for calculating aircraft emissions associated with airports. During each mode of operation, an aircraft engine operates at a specific power setting and fuel consumption rate for a given aircraft make and model. Emissions for one complete cycle are calculated by multiplying emission factors for each operating mode for each specific aircraft engine and the typical period of time the aircraft is operating.

Figure 2-1. Landing and Takeoff Cycle



3.0 Data Sources of Texas Airport Activities Inventoried

This section explains the various sources where ERG obtained the aircraft activity data. There are two general sources of airport data. The preferred sources are from the airports themselves. The other sources of data are from the FAA.

3.1 Local Data from Airports

This subsection describes the process ERG used to obtain the local based airport activity data.

3.1.1 Contacting Airports

ERG contacted local Texas airports by telephone and email to request 2014 activity data and to identify and characterize control strategies used or planned at each airport. The airports contacted included the medium to large airports identified for the 2011 Air Emissions Reporting Requirements (AERR) inventory effort and additional smaller airports. Of the 2,008 airports located in Texas, ERG contacted a total of 367.

ERG requested each airport to provide the following:

- 2014 landing and takeoff data for aircraft make/model.
- Average taxi-in and taxi-out times.
- Emission control strategies used (i.e., gate electrification, auxiliary power units) for 2014 and the expected emission reduction.

Of the airports contacted, 32 submitted landing and takeoff data, six submitted taxi time estimates, and seven provided control strategies. Table 3-1 summarizes the airports that ERG contacted that provided data. Landing and takeoff data were submitted as LTOs or operations. LTOs, described in Section 2.3, are the landing and takeoff cycle, where operations are separate landing and takeoff events. For example, in order to calculate LTOs from operations, operations are divided by two. An LTO is made up of a landing event (arrival) that includes the approach, landing, and taxi to gate as well as a takeoff event (departure) that includes the taxi from the gate, takeoff, and climb-out. Arrivals and departures are both considered separate operations.

Table 3-1. Summary of Data Provided by Local Airports[1]

State Facility Identifier	Facility Name	Contact Name	Phone Number	Data Provided
ABI	Abilene Rgnl	Don Green	325-676-6061	2014 Operations and Gate Electrification Percentage
AUS	Austin-Bergstrom Intl	Stephen Dick	512-530-5541	2014 LTOs by Aircraft Type, Taxi times
7R9	Bailes	Danny Stills	979-549-6848	2014 LTOs
F18 (CPT)	Cleburne Muni	Sharlette McLaurin	817-641-5456	2014 Operations
CRP	Corpus Christi Intl	Carl Gross	361-289-0171 x 1210	2014 Operations by Aircraft Type
X09	Covey Trails	Gary Cole	713-824-2204	2014 LTOs
DAL	Dallas Love Field	Terry Mitchell	214-670-6086	2014 Arrival Counts by Specific Aircraft Types, GSE Electrification Percentage
DFW	Dallas/Ft Worth	Kris Russell	972-973-5591	2014 EDMS output, Taxi Times
DTO	Denton Muni	Patrick Carreno	940-349-7736	2014 Monthly Operations by Aircraft Type (Data for December 2014 was unavailable)
GGG	East Texas Regional	Warren Henry	903-643-3031	2014 LTO data for American Eagle's Embraer 135 and 145
EFD	Ellington Field	Mike Kenney/Jim Parise	727-578-5152	2014 EDMS output, Taxi Times
25TA	Ferris	JP Ferris	281-427-7345	2014 LTOs
39R	Flyin' B	David Parker	713-443-1850	2014 TGOs by Specific Aircraft Types
2TE2	Flying Oaks	Melissa Cook	817-602-6427	2014 LTOs
IAH	George Bush International/ Houston	Mike Kenney/Jim Parise	727-578-5152	2014 EDMS output, GSE Electrification Percentage, Taxi Times
GTU	Georgetown Muni	Curtis Benkendorfer	512-930-3666	2014 LTOs
GYI	North Texas Regional/Perrin Field	Mike Shahan	903-786-2904	2014 Operations
2H5	Happy Landings	John Hull, Jr.	713-772-0083	2014 LTOs
21XS	Houston Airpark	Gerald Cavanaugh	281-455-8692	2014 LTOs
LRD	Laredo Intl	Guillermo Villalobos	956-795-2000	2014 Operations by Specific Aircraft Types (excluding General Aviation and Airline Commuter Aircraft), Taxi Times
CXO	Lone Star Exec	Scott Smith	936-788-8311	2014 Operations, Taxi times, GSE Electrification Percentage
0TA0	Mainland Rgnl Healthcare	Steve Brown	409-938-5000	2014 LTOs
TKI	McKinney National	Eric Pratt	972-562-4096	2014 Operations
HQZ	Mesquite Metro	Cynthia Godfrey	972-216-4131	2014 Operations

[1] For a more detailed account of the communications between ERG and the airports contacted, see Appendix A.

Table 3-1. Summary of Data Provided by Local Airports[1]

State Facility Identifier	Facility Name	Contact Name	Phone Number	Data Provided
16X	Propwash	Tom Silva	940-648-0862	2014 TGOs by Specific Aircraft Types
2TE1	Republic Helicopters	Kjirstin Larson	409-927-8111	2014 LTOs by Specific Aircraft Types
SJT	San Angelo Regional/Mathis Field	Janice Crimm	325-659-6409 x 3	2014 Operations by Specific Aircraft Types, GSE Electrification Percentage, Taxi Times
SAT	San Antonio Intl	Steven Southers	210-207-3402	2014 Operations by Specific Aircraft Types
87TS	Star Houston	Glenn Seureau	713-868-6800	2014 LTOs
SGR	Sugar Land Regional	Krystal G. Escamilla	281-275-2124	2014 Operations
HRL	Valley Intl	Bryan Wren		2014 Operations and GSE Electrification Percentage
HOU	William P Hobby	Mike Kenney/Jim Parise	727-578-5152	2014 EDMS output, GSE Electrification Percentage, Taxi Times

3.1.2 Summary of Local Data Received

As noted in the previous section, ERG collected local data from 32 of the airports contacted. In addition, six airports submitted taxi time estimates, and seven provided control strategies.

The local data were available in different formats depending on how each airport recorded airport activity. The 2014 operations data were submitted as annual totals by airport, annual totals by airport and generic aircraft type categories, or annual totals by airport and specific aircraft make and model.

Of the airports from which ERG collected local data, 15 submitted operations or LTO data as annual totals. Table 3-2a summarizes the 2014 operations data submitted as annual totals and Table 3-2b summarizes the 2014 LTO data submitted as annual totals. Abilene Regional Airport, Lone Star Executive Airport, and Valley International Airport also provided the percentage of gates and GSEs that were electric (see Table 3-8).

Table 3-2a. Operations Data: Submitted as Annual Totals

State Facility Identifier	Facility Name	2014 Annual Operations
F18 (CPT)	Cleburne Muni	24,456
GTU	Georgetown Muni	68,775[1]
CXO	Lone Star Exec	61,035
TKI	McKinney National	97,630
HQZ	Mesquite Metro	61,292
F39	North Texas Regional/ Perrin Field	72,975[1]
SGR	Sugar Land Regional	86,384
HRL	Valley Intl	39,200

[1] Data provided was for January to November of 2014, as December data was unavailable at the time of data collection.

Table 3-2b. LTO Data: Submitted as Annual Totals

State Facility Identifier	Facility Name	2014 Annual LTOs
7R9	Bailes	534
X09	Covey Trails	260
25TA	FERRIS	520
2TE2	Flying Oaks	130
21XS	Houston Airpark	1,643
0TA0	Mainland Regional Healthcare	30
87TS	Star Houston	130

Two of the airports (Abilene Regional Airport and Corpus Christi International Airport provided annual operations data by generic aircraft type categories. Table 3-3

summarizes the 2014 operations data provided by generic aircraft type categories. Abilene Regional Airport did not provide data for December 2014, as they were unavailable at the time data were collected; however, December 2013 operations data were provided as a surrogate. The December 2013 operations were adjusted using the FAA's TAF dataset.

Table 3-3. Operations Data: Submitted as Annual Totals by Generic Aircraft Type Categories

State Facility Identifier	Month/Year	Air Carrier	Air Taxi	General Aviation Local	General Aviation Itinerant	Military Local	Military Itinerant
ABI	1/2014 – 10/2014	201	8,925	6,843	15,447	9,478	7,546
ABI	11/2013 – 12/2013	19	1,681	1,742	3,078	1,671	1,253
CRP	2014	-	13,576		14,159		31,752

Two of the airports (Denton Municipal Airport and Mc Allen Miller International Airport) submitted operations data as monthly totals. Denton Municipal Airport provided operations by generic aircraft type categories. Table 3-4a and Table 3-4b summarize the 2014 operations data submitted as monthly totals. Denton Municipal Airport did not provide data for December 2014, as they were unavailable at the time data were collected.

Table 3-4a. Denton Municipal Airport 2012 and 2014 Operations Data: Submitted as Monthly Totals by Generic Aircraft Type Categories

Month	Year	Air Carrier	Air Taxi	General Aviation Local LOC	General Aviation Itinerant	Military Local	Military Itinerant
January	2014	1	155	5,380	5,481	0	2
February	2014	1	138	5,316	4,556	0	12
March	2014	2	175	7,538	6,209	0	5
April	2014	2	202	8,594	5,959	4	27
May	2014	0	189	9,128	6,798	6	19
June	2014	1	162	7,176	5,594	0	16
July	2014	5	146	8,363	6,388	0	10
August	2014	3	172	6,611	6,754	0	18
September	2014	12	126	7,122	6,202	4	19
October	2014	7	133	7,758	6,416	2	18
November	2014	0	165	5,492	5,294	0	23
December	2014	N/A	N/A	N/A	N/A	N/A	N/A

N/A – Not applicable.

Table 3-4b. Mc Allen Miller International Airport 2014 Operations Data: Submitted as Monthly Totals

Month	Operations
January	4,797
February	4,464
March	4,623
April	4,933
May	4,897
June	5,333
July	5,756
August	5,180
September	4,785
October	5,570
November	4,828
December	4,370

Eight of the airports provided 2014 data by specific aircraft type. Republic Helicopters, East Texas Regional Airport, San Angelo Regional Airport, Austin-Bergstrom International Airport, and San Antonio International Airport provided annual LTO totals by specific aircraft. East Texas Regional Airport only provided American Eagle's LTO data. San Angelo Regional Airport only provided LTO data for two aircraft types. To obtain activity estimates for the remainder of the aircraft at East Texas Regional Airport and San Angelo Regional Airport, publicly available data was supplemented. San Angelo Regional Airport also provided the percentage of GSEs that were electric (see Table 3-8). Table 3-5, and Appendix B summarizes the 2014 activity data for these airports.

Table 3-5. 2014 TGOs: Submitted by Specific Aircraft Type

State Facility Identifier	Airport Facility	Aircraft Code	2014 LTOs
2TE1	Republic Helicopters	BELL206	3,564
2TE1	Republic Helicopters	BELL222	448
GGG	East Texas Rgnl	ERJ145	681
SJT	San Angelo Rgnl/Mathis Field	ERJ145	884
SJT	San Angelo Rgnl/Mathis Field	CRJ200	884

Flyin' B and Propwash airports provided annual Touch and Go (TGO) totals by specific aircraft. TGOs are defined as LTO cycles that have 0 minutes of taxi time. Table 3-6 summarizes the TGO totals.

Table 3-6. 2014 TGOs: Airport Submitted by Specific Aircraft Type

State Facility Identifier	Airport Facility	Aircraft Code	2014 TGOs
39R	Flyin' B	R44	50
16X	Propwash	CNA150	1,250
16X	Propwash	MOONEY-M20K	1,250

Laredo International Airport provided activity data as annual LTOs, and by specific aircraft type for commercial aircraft. The total number of LTOs at Laredo International Airport in 2014 was 11,592. Table 3-7, below summarizes the commercial aircraft submitted by specific aircraft type.

Table 3-7. Laredo International Airport LTOs: Commercial Aircraft Submitted by Specific Aircraft Type

Aircraft Code	LTOs
A300	137
A310	337
B727	401
B737	336
B757	281
DC8	0
DC9	825
MD80	245
RJ145	2920
B757	312

Dallas Love Field provided aircraft specific arrival counts for 2014. Dallas Fort Worth International Airport and the Houston airports (Ellington Field Airport, William P Hobby Airport, and George Bush Intercontinental Airport) provided aircraft-engine-specific LTO cycle data and air taxi time for 2014. Appendix B summarizes the activity data for Dallas Love Field, Dallas Fort Worth International, and the Houston airports.

Dallas Love Field, William P Hobby, and George Bush International airports also provided the percentage of GSEs that were electric. William P Hobby and George Bush International airports provided the GSE electrification percentage by airline. Table 3-8 lists the gate and GSE electrification percentages.

Table 3-8. Gate/GSE Electrification Percentages

State Facility Identifier	Airport Facility	Airline	Percentage of Electric GSE	Percentage of Electric Gates
ABI	Abilene Regional	-	-	50%
CXO	Lone Star Exec	-	53%	-
DAL	Dallas Love Field	-	42%	-
IAH	George Bush Intercontinental/Houston	United Airlines	52%	-
HOU	William P Hobby	Southwest Airlines	51%	-
HRL	Valley Intl	-	15%	-
SJT	San Angelo Regional/Mathis Field	-	100%	-

Taxi time estimates were submitted for eight of the airports. Table 3-9 summarizes the taxi times received from the local airports. Locally provided taxi time estimates from the 2008 and 2011 AERR Inventories were also utilized in this inventory effort. The previous locally provided taxi time estimates are summarized in Table 3-10.

Table 3-9. Taxi Times

State Facility Identifier	Airport Facility	Taxi In (Minutes)	Taxi Out (Minutes)
AUS	Austin-Bergstrom Intl	4	3
DFW	Dallas/Ft Worth	15.04	10.81
EFD[1]	Ellington Field	5.55	5.75
IAH[1]	George Bush International/ Houston	8.89	22.17
LRD	Laredo Intl	3.5	3.5
CXO	Lone Star Exec	3	3
SJT	San Angelo Regional/Mathis Field	5	5
HOU[1]	William P Hobby	4.15	9.54

[1] These are only average taxi times from the Houston Area Airports. Actual taxi times were provided in EDMS files at an aircraft level but too numerous to list.

Table 3-10. 2008 AERR Inventory Locally Provided Taxi Times

State Facility Identifier	Airport Facility	Taxi In (Minutes)	Taxi Out (Minutes)
ABI	Abilene, TX: Abilene Municipal	8.70	9.28
ACT	Waco, TX: Waco Municipal	10.26	8.94
AMA[1]	Rick Husband Amarillo Intl	3	3
BPT	Beaumont/Port Arthur, TX: Jefferson County	7.24	10.36
BRO	Brownsville, TX: Brownsville South Padre Is	8.24	11.90
CLL	College Station/Bryan, TX: Easterwood Field	10.93	9.10
CRP	Corpus Christi, TX: Corpus Christi International	6.53	10.14
DAL	Dallas, TX: Dallas Love Field	4.46	9.89
ELP	El Paso, TX: El Paso International	7.01	10.35
GGG[1]	East Texas Regional	1	1
GRK	Killeen, TX: Robert Gray Army Air Field	9.11	9.44
HRL	Harlingen/San Benito, TX: Harlingen Industrial Airpark	4.87	7.49
LBB	Lubbock, TX: Preston Smith International	6.31	8.65
MAF	Midland/Odessa, TX: Midland International	6.10	8.89
MFE	Mission/Mcallen/Edinburg, TX: Miller International	9.12	11.04
SAT	San Antonio, TX: San Antonio International	7.51	11.40
SPS	Wichita Falls, TX: Sheppard Air Force Base / Wichita Falls Air Terminal	11.31	9.92
TYR	Tyler, TX: Pounds Field	12.13	9.22

[1] Taxi times represent locally provided data from 2011.

For local airports that submitted aggregated annual totals and also had publicly available data by specific aircraft make/model, ERG adjusted the publicly available data to reflect the total data provided by the local airport. Therefore, specific aircraft data could be retained. For example, an airport provided an annual total of 30,000 LTOs and the publicly available aircraft make/model-specific activity data for that airport totals 25,000 LTOs. In this case, ERG applied a factor of 1.2, developed by dividing the local airport-provided LTO total by the publicly available LTO total to the aircraft make/model-specific LTO data to be consistent with the airport-provided activity level.

The local data provided by airports were the basis for the TCEQ's 2014 aircraft inventory. ERG filled the data gaps using publicly available 2014 data. For consistency between the local dataset and the publicly available dataset, ERG converted the 2014 operations data into LTO cycles. This combined dataset will be used as the baseline 2014 activity data for this study.

3.2 Publicly Available Data Sources of Texas Airport Activities

ERG compiled publicly available activity data from the following sources:

- Bureau of Transportation Statistics (BTS) T-100 segment dataset.[3]
- FAA TAF dataset. [4]
- FAA Airport Operations: Standard Report (ATADS) dataset.[5]
- FAA Airport Master Record (5010) dataset.[6]

ERG adjusted the compiled data for duplicates associated with the four datasets. This section discusses each data source investigated for this project, summarizing the publicly available data and noting any limitations or data gaps.

3.2.1 T-100 Dataset

The T-100 data is an activity dataset that includes information provided by domestic and international commercial air carriers. During the time period of this study, only January through August activity data were available for 2014. To obtain the missing months from the 2014 activity dataset, ERG adjusted data from September through December for 2013 to reflect 2014 data using scale factors developed from the TAF dataset. The 2014 T-100 activity dataset had the most specific data of the four datasets. The T-100 data included airport, aircraft make and model, and LTO cycle data. ERG incorporated the engine information from the FAA's Emissions and Dispersion Modeling System 5.1.4.1 (EDMS) default engine list into the dataset. Appendix C summarizes the T-100 data used for this study.

3.2.2 TAF/ATADS Datasets

In an effort to increase the accuracy of the activity data over the 2011 emissions inventory, ERG included the ATADS activity data in the 2014 emissions inventory development. The ATADS dataset is air traffic operations from the FAA's National Airspace System and is considered to include more operations data than the TAF dataset. The ATADS dataset is provided in the same format as the TAF dataset.

The TAF dataset is an FAA dataset derived from a variety of sources such as reported traffic at FAA towered facilities, data reported directly by airports, and FAA-derived estimates from historical information. This dataset includes airport, aircraft categories, and operations data.

The aircraft categories included AC, AT, military (MIL), and GA. As mentioned in Section 2.3, propeller-driven aircraft and jet- (or turbine-driven) aircraft account for 72.1% and 27.9%, respectively, of all GA activity. Propeller-driven aircraft and jet- (or turbine-) driven aircraft account for 21.8% and 78.2%, respectively, of all AT activity. The aircraft categories from AT and GA were broken out into piston and jet engines.

This breakout is important because piston engines have different emission factors and speciation profiles than jet engines.

ERG removed the overlap between the ATADS and TAF dataset from the TAF dataset, as the ATADS dataset includes more operations data for each aircraft type. For consistency between the other two datasets, ERG converted the ATADS/TAF operations data into LTO cycles. Where there was overlapping data between the ATADS/TAF and the T-100 datasets, the T-100 data were retained given their greater level of detail. Hence, duplicate data from the ATADS/TAF dataset were removed.

3.2.3 5010 Dataset

The 5010 dataset comprises data EPA compiled from the FAA's airport 5010 master plan data and estimated activity levels based on statistical techniques described in greater detail in the EPA aviation lead report from December 2010[7]. The 5010 data were provided by the EPA to the states via the EPA's National Emissions Inventory (NEI). These data include airport, aircraft categories, and LTO cycle data.

The aircraft categories include AC, AT, MIL, and GA. The aircraft categories in the 5010 dataset have AT and GA broken out into piston- and jet engine-powered aircraft as they tend to include some of the smallest airports and landing strips.

ERG adjusted the 2010 dataset to reflect the 2014 activity levels using the TAF dataset.

4.0 Summary of 2014 Emissions Development and 2008 to 2040 Trend Factor Development

4.1 Emission Estimation Methodology

To develop the most accurate aircraft emission inventory, ERG took two different approaches. If aircraft-specific data were available, ERG used the FAA's EDMS model in conjunction with detailed aircraft activity data from T-100 (see Appendix C for T-100 data). If such detailed data were not available, then ERG applied a more general approach for different aircraft types (i.e., air taxis, general aviation, and military aircraft) using available generic emission estimating procedures developed by the EPA. Using these two complementary approaches provides the most accurate emission estimates for the larger commercial jets, which tend to be the most significant aircraft emission source, while still providing estimates for smaller aircraft.

4.1.1 Emissions and Dispersion Modeling System

There are 2,008 airports in Texas; 43 are airports for which detailed aircraft activity data were available. To estimate 2014 emissions for these airports, ERG used local data, when available, and T-100 segment data (summarized in Appendix C) in conjunction with the FAA EDMS model – version 5.1.4.1.

EDMS is an emission estimating tool developed by the FAA and can estimate criteria and HAP emissions from a variety of stationary and mobile sources. Stationary sources include fuel storage tanks, power and heat generation, surface coating, degreasing, and incineration. Mobile sources include aircraft, auxiliary power units (APUs), ground support equipment (GSE), road traffic (including shuttle bus services), and vehicle emissions from parking areas.

For the 2014 emissions inventory, the EDMS analysis was limited to aircraft, APU, and GSE emissions. Note that emissions from APU and GSE have their own SCC codes for the NEI and are not included within the aircraft SCC codes. The APU SCC code is 2275070000, and the GSE SCC codes are 2265008005, 2267008005, 2268008005, and 2270008005 for GSE fueled by gasoline, LPG, CNG, and diesel, respectively.

EDMS allows users to customize time-in-mode and mixing height to estimate more precise aircraft emissions. Time-in-mode is synonymous with the LTO cycle discussed above. For each large airport, ERG developed airport specific taxiing and idling times and mixing height to adjust time-in-mode for approach and climb-out modes. ERG

collected taxiing and idling times from on-time performance reports submitted to BTS by certificated air carriers[8] and collected upper-air weather observations compiled by the National Climatic Data Center and published by the EPA Support Center for Regulatory Air Models.[9] ERG identified the closest weather service station to each large airport. The mixing height provides a vertical cutoff for EDMS modeling of aircraft emissions.

For each individual aircraft make and model (e.g., Boeing 747-200 series), EPA has assigned an engine type and code, which can be linked to the engines in EDMS. EDMS incorporates the latest aircraft engine emission factors from the International Civil Aviation Organization Engine Exhaust Emissions Data Bank.[10]

EDMS uses the following generalized equation to estimate aircraft emissions:

$$E_{il} = \sum Tk \times NE_{jl} \times (FF_{jlk} / 1000) \times (EI_{jlk}) \times LTO_{jl}$$

Where:

E_{il}	=	Emission of pollutant i in pounds produced by the aircraft make j and model l
T_k	=	Operating time in mode k (min)
NE_{jl}	=	Number of engines associated with aircraft make j and model l
FF_{jlk}	=	Fuel flow for individual engine used on aircraft make type j and model l operating in mode k (lbs/min)
EI_{ilk}	=	Emission index for pollutant i for each engine associated with aircraft make j and model l operating in mode k (lbs of pollutant /1,000 lbs of fuel)
i	=	Pollutant (i.e., HC, VOC, CO, NO_X, SO2)
j	=	Aircraft make (e.g., Boeing, McDonald Douglas, Airbus)
l	=	Aircraft model (e.g., B-737 300 series)
k	=	Mode (approach, taxi, climbout).

It should be noted that the above equation captures the essential approach to estimating aircraft emissions. The EDMS has evolved over the past 30 years to account for impacts in local mixing heights on operating times for approach and climb-out operations. Furthermore, the model also includes a first order approximation for PM emissions, which was not part of the original version of the model developed in the mid- 1980s (at that time it was the FAA Aircraft Engines Emissions Database). Additionally, HAPs were

included to the model in 2009. Given the growing complexity and sophistication of the model the FAA is transitioning EDMS to a new platform, the Aviation and Design Tool (AEDT). This new model was released at the end of May 2015; the EPA intends to use AEDT for the 2017 inventories.

APUs are most often on-board generators that provide electrical power or ventilation to the aircraft while its main engines are shut down and to provide startup power from the main engines. The APU is, in effect, a small jet engine and the calculations for the emissions generated by it are similar to that of an aircraft engine operating at an optimal power setting only. APU emissions are generated per LTO cycle.

ERG estimated emissions from APUs using the following equation within EDMS:

$$E_{ij} = T \times (FFj/1{,}000) \times (EI_{ij})$$

Where:

E_{ij}	=	Emission of pollutant i in pounds produced by the auxiliary power unit installed on aircraft type j for one LTO cycle
T	=	Operating time per LTO cycle (min)
FF_j	=	Fuel flow for each auxiliary power unit used on aircraft type j (lbs/min)
EI_{ij}	=	Emission index for pollutant i for each auxiliary power unit used on aircraft type j (lbs of pollutant /1,000 lbs of fuel)
i	=	Pollutant (i.e., VOC, NO_X)
j	=	Aircraft type (e.g., B-737, MD-11)

APU emissions can be reduced by using electricity and pretreated ventilation air from the terminals. Where local data indicated that such enhancements are part of the facilities emission reduction strategy, ERG reduced APU emissions by the percentages listed in Table 3-6, in Section 3.1.2.

Upon arrival at a gate, aircraft are met by GSE to unload baggage and service the lavatory and cabin and prior to aircraft departure, GSE loads 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. ERG derived GSE emission factors used by EDMS from EPA's NONROAD2005 model; these factors are based on fuel, brake horsepower, and load factor.

ERG estimated GSE emissions by applying activity data to an appropriate emission factor within EDMS with the additional emission reduction outside of EDMS as noted in the following equation:

$$EE = A \times EF \times (1\text{-}CE/100)$$

Where:

EE = Emission estimate (tons per year)
A = Annual activity level
EF = Emission factor (tons/activity)
CE = Anticipated emission reduction (percentage)

GSE activity level (minutes per arrival, minutes per departure) is assigned based on the type of service. For example, a fuel truck servicing a large commercial aircraft has a different operating time than the same fuel truck servicing a smaller aircraft.

4.1.2 Generic Emission Estimating Procedures

EDMS can provide emission estimates if the aircraft make and model are known. Often this is not the case for air taxis, general aviation, and military aircraft activity in the TAF and 5010 datasets. For 1,996 airports without aircraft make and model specific data, ERG used the generic approach that relies upon representative criteria emission factors provided by EPA, using the following equation:

$$E_{ixj} = LTO_i \times FR_x \times EF_{ij}$$

Where:

E_{ixj} = Emission estimate for aircraft type i equipped with engine type x and pollutant j (lbs/year)
LTO_i = Annual count of LTO cycles for aircraft type i
FR_x = Fraction of LTOs equipped with engine type x
EF_{ij} = Generic emission factor for aircraft type i equipped with engine type x and pollutant j (lbs/LTO)
i = Aircraft type (i.e., air taxi, general aviation, and military)
x = Engine type (i.e., jet or turboprop, and piston engine)
j = Criteria pollutant j

Critical to the calculation is the application of representative emission factors that account for the different aircraft in the national fleet. Table 4-1 lists the generic emission factors for criteria pollutants by aircraft type.[11] The generic emission factors for HAPs are listed in Appendix D.

As discussed above, when the GA and AT breakout is unknown, EPA has assumed that 72.1% of all GA activity are powered by propeller-driven aircraft and 27.9% are jet (or turbine) driven; and 21.8% of all AT activity are powered by propeller-driven aircraft and 78.2% are jet (or turbine) driven. The 5010 data had the piston and jet engines already disaggregated.

It should be noted that prior to implementing the triannual NEI, a search was implemented for new aircraft engine test data that can be used to update the inventory's emission factor dataset. At this time no aviation test data have been identified that quantify ammonia emissions. Therefore no ammonia emissions can be reported.

Table 4-1. Emission Factors for Aircraft Types (pounds per LTO)

Aircraft Type	Pollutant					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Commercial	6.16	18.6	22.4	1.78	1.08	1.05
Air Taxi (jet)	1.01	0.78	3.61	0.16	0.60	0.58
Air Taxi (propeller)	0.17	0.16	28.1	0.015	0.60	0.42
General Aviation (jet)	0.69	0.32	9.58	0.074	0.24	0.23
General Aviation (propeller)	0.15	0.065	12.0	0.010	0.24	0.16
Military	1.42	0.16	28.1	0.015	0.60	0.59

4.1.3 Emission Projection Procedures

The 2014 base year inventory was projected to years 2008 to 2040 using projection factors developed from the FAA's TAF dataset[4]. TAF is the official FAA forecast of aviation activity for U.S. airports. TAF is regularly used to project aircraft data into the future and is based on each airport's history as well as anticipated demand for aviation services based on local and national economic conditions as well as changes in the fleet over time. These TAF projections are reviewed by staff from the FAA's regional and district offices to ensure they are reasonable and represent local conditions.

The TAF dataset includes all operations data for the years 1990 to 2040 by generic aircraft type for all TAF airports. ERG developed projection factors by calculating the

ratio of base year operations and projection year operations by airport. ERG also developed projection factors by aircraft type to project the emissions from airports that are not included in the TAF dataset. The growth factors are listed in an excel spreadsheet submitted with this report.

Emission projections only included forecasted changes to activity. The emission projections did not includes changes to emission factors. Unlike other nonroad sources, the emission factor data set for aircraft do not have uncontrolled and controlled emission factors.

International aircraft emission standards are developed by the International Civil Aviation Organization (ICAO) based on the consensus of member countries. Each country then uses these standards to develop their own regulatory instruments to ensure compliance with the standard. Traditionally these emission standards follow developments in engine design and manufacture. Because most aircraft engines are designed for specific airframe makes and models, add on controls and use of newer engines that go beyond the standard associated with the aircraft manufacture date are difficult and rarely implemented without extensive redesign of the aircraft. Because EDMS uses actual engine manufacturers' test data reported to ICAO, the emission estimates are consistent with international emission standards. Also because of the high capital cost of commercial aircraft, airlines tend to keep them in operation beyond the original design, for example there are still 747-100s in operation, these aircraft were manufactured starting from 1970 (many of the these remaining aircraft are used by smaller carriers in developing countries or as freight carriers or in military applications).

4.1.4 Summary of Texas Airport Emissions

The results of implementing the emission estimation methodology and emission projection procedures for the base year 2014 and trend years 2008 to 2040 are presented in Tables 4-2 and 4-3. The county-level base year 2014 criteria pollutant emissions data is presented in Appendix E; and the county-level 2014 HAP pollutant emissions are listed in an excel spreadsheet submitted with this report. The statewide, SCC-level, and county-level trend analysis summaries are listed in an excel spreadsheet submitted with this report.

In 2014, general aviation aircraft equipped with piston engines accounted for 43% of the total aircraft activities, including activity associated with auxiliary power units and ground support equipment. General aviation aircraft outfitted with turbine engines, commercial aircraft, air taxis with turbine engines, military aircraft, and air taxis with

piston engines account for 23%, 20%, 6%, 6%, and 1% of the total aircraft activities, respectively.

Harris County has the highest activity; the airports located in this County accounted for 22%, of all activity in scope for this project for 2014. The counties with the next highest activity levels were Tarrant County and Dallas County. Tarrant County accounted for 20% of all aircraft activity; and Dallas County accounted for 6% of all aircraft activity.

General aviation outfitted with piston engines accounted for the highest percentage of CO, PM_{10}, and $PM_{2.5}$ emissions (34%, 34%, and 26%, respectively); and GSE using compressed natural gas accounted for the lowest percentage of CO, PM_{10}, and $PM_{2.5}$ emissions (0.14%, 0.04%, and 0.04%, respectively). Commercial aircraft accounted for the highest percentage of NO_X emissions (86%); and air taxis outfitted with piston engines accounted for the lowest percentage of NO_X emissions (0.05%). Commercial aircraft accounted for the highest percentage of SO_2 and VOC emissions (83% and 51%, respectively); and GSE using compressed natural gas accounted for the lowest percentage of SO_2 and VOC emissions (0.02% and 0.06%, respectively).

In a comparison between the 2014 and previous 2011 Inventory[13] completed in 2012, the emissions were similar. Generally, the emissions increased similar to activity level, with a few pollutants that decreased. It was noted that there was a fleet composition change in the last three years. It was also noted, that pollutant emissions associated with GSEs decreased due to locally provided GSE data from the Houston Area Airports. The comparison did not include airports in the Dallas – Fort Worth area because they were not included in the 2011 inventory.

Figure 4-1. United States and World Airline Trends

In the trend analysis, presented in Figure 4-2, the criteria pollutants show a decrease from 2008 to 2012, and an overall increase from 2012 to 2040. This trend is in agreement to the overall trend in the United States where activity decreased from 2008 to 2012 and then began to increase again in 2012 as shown in Figure 4-1.[14]

Table 4-2. 2014 Texas Emission Estimates by SCC Code (Tons Per Year)

Pollutant	Air Taxi, Piston	Air Taxi, Turbine	APU	Commercial Aircraft, Total: All Types	General Aviation, Piston	General Aviation, Turbine	GSE-CNG	GSE-LPG	GSE-Off-highway Vehicle Diesel	GSE-Off-highway Vehicle Gasoline, 4-Stroke	Military Aircraft, Total	Total
	2275060011	2275060012	2275070000	2275020000	2275050011	2275050012	2268008005	2267008005	2270008005	2265008005	2275001000	
VOC	12.54	342.00	23.75	1,407.15	144.56	497.09	1.69	2.14	103.45	21.76	215.81	2,771.93
NOX	4.08	277.96	250.48	7,496.75	61.33	218.38	5.55	7.01	339.54	71.41	32.12	8,764.60
CO	913.98	954.91	301.80	7,432.29	11,450.15	4,860.68	48.10	60.82	2,943.84	619.15	3,815.13	33,400.84
PM10	8.97	39.41	36.23	140.77	222.38	116.53	0.23	0.29	14.18	2.98	79.22	661.21
PM2.5	6.83	38.80	36.23	140.72	153.63	113.86	0.22	0.28	13.55	2.85	77.37	584.34
SO2	1.14	52.86	37.59	834.22	9.63	47.33	0.16	0.20	9.56	2.01	5.70	1,000.38
1,3-Butadiene	0.21	5.48	0.40	19.17	1.81	8.25					3.67	38.99
2,2,4-Trimethylpentane	0.0008	0.0161		0.0060	0.0636	0.1233	0.0231	0.0292	1.4156	0.2977		1.9755
2-Methyl Naphthalene	0.0019	0.6464	0.0492	2.3411	0.0001	1.0077					0.4481	4.4945
Acenaphthene	0.0051				0.1619							0.1670
Acenaphthylene	0.0285				0.9138							0.9423
Acetaldehyde	0.5401	13.9050	1.0199	48.5489	1.2814	20.8978	0.0111	0.0140	0.6783	0.1427	9.2939	96.3331
Acrolein	0.2563	7.9232	0.5847	27.8315	0.1928	11.9800					5.3278	54.0962
Anthracene	0.0059	0.0000			0.1885	0.0000						0.1945
Benzene	0.3054	5.4819	0.4013	19.1036	7.2652	8.2231	0.0270	0.0341	1.6515	0.3474	3.6571	46.4977
Benzo(a)anthracene	0.0007	0.000002		0.000005	0.0222	0.000007						0.0229
Benzo(a)pyrene	0.0007	0.000001		0.000004	0.0222	0.000004						0.0229
Benzo(b)fluoranthene	0.0008			0.000008	0.0266							0.0275
Benzo(ghi)perylene	0.0018	0.00000015		0.00000007	0.0577	0.000001						0.0595
Benzo(k)fluoranthene	0.0008			0.000008	0.0266							0.0275
Chrysene	0.0007	0.000002		0.000005	0.0222	0.000007						0.0229
Dibenzo(ah)anthracene				0.000010								0.0000
Ethylbenzene	0.0505	0.5634	0.0415	1.9774	2.6161	0.8512	0.0103	0.0131	0.6323	0.1330	0.3785	7.2673

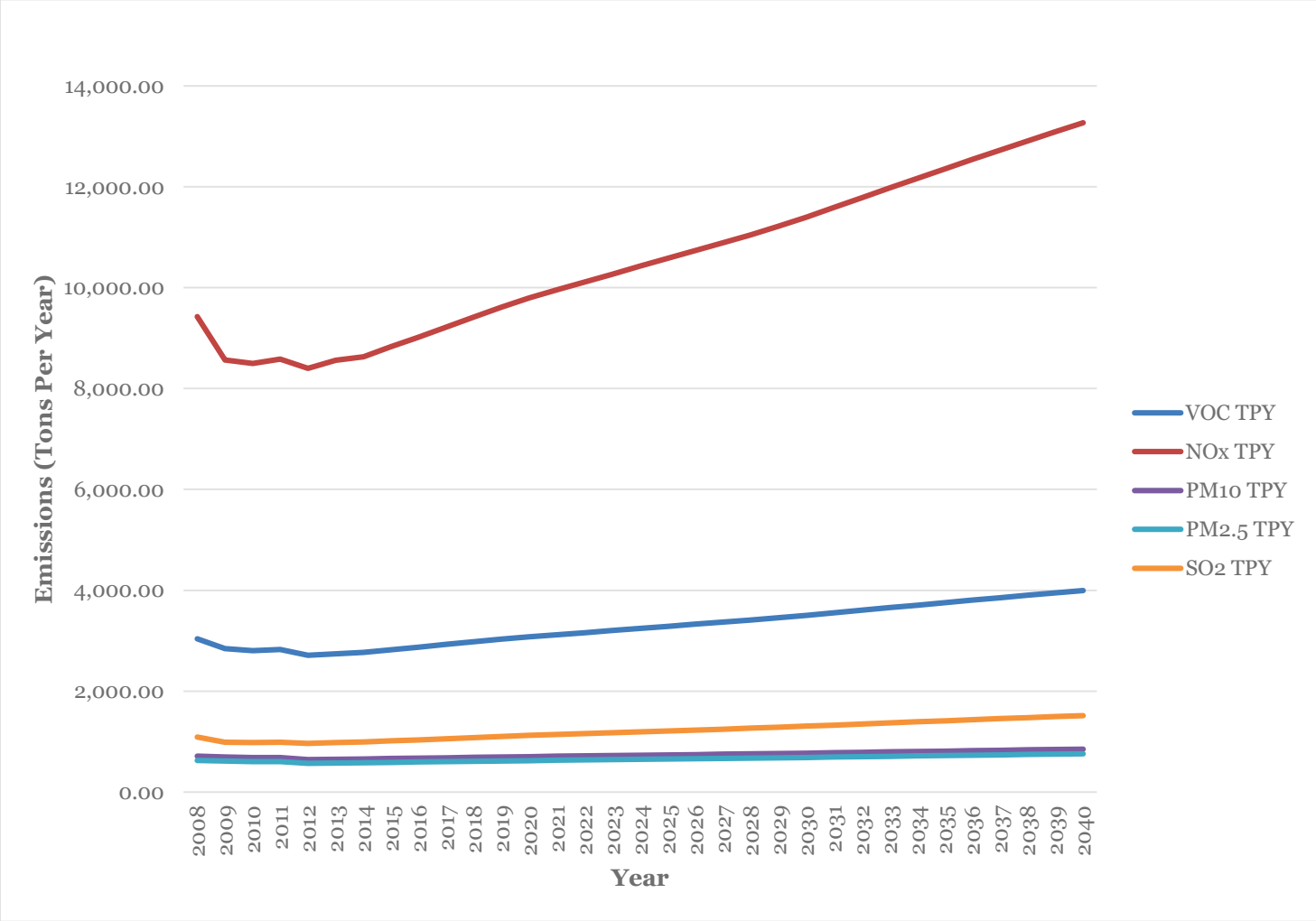
Table 4-2. 2014 Texas Emission Estimates by SCC Code (Tons Per Year)

Pollutant	Air Taxi, Piston	Air Taxi, Turbine	APU	Commercial Aircraft, Total: All Types	General Aviation, Piston	General Aviation, Turbine	GSE-CNG	GSE-LPG	GSE-Off-highway Vehicle Diesel	GSE-Off-highway Vehicle Gasoline, 4-Stroke	Military Aircraft, Total	Total
	2275060011	2275060012	2275070000	2275020000	2275050011	2275050012	2268008005	2267008005	2270008005	2265008005	2275001000	
Fluoranthene	0.0063	0.000023		0.000010	0.2018	0.0001						0.2083
Fluorene	0.0105				0.3349							0.3453
Formaldehyde	1.7668	40.2635	2.9389	139.8963	5.3666	60.2183	0.0328	0.0415	2.0070	0.4221	26.7811	279.7349
Indeno(1,2,3-cd)pyrene	0.0006			0.000008	0.0177							0.0183
Isopropylbenzene	0.0000	0.0094	0.0007	0.0341	0.0000	0.0147					0.0065	0.0655
Lead	0.3943				14.4698							14.8640
Methane	1.2343	1.2655			0.4544	0.0008	0.0378	0.0478	2.3121	0.4863	0.0021	5.8410
Methanol	0.0168	5.6642	0.4309	20.5128	0.0006	8.8296					3.9265	39.3814
Naphthalene	0.7004	1.7171	0.1275	6.0802	20.9467	2.6460					1.1770	33.3948
N-Hexane	0.0152				1.2428		0.0119	0.0151	0.7293	0.1534		2.1677
Phenanthrene	0.0176	0.0001		0.000046	0.5633	0.0005						0.5815
Phenol	0.0315	2.3036	0.1733	8.2506	0.0094	3.5514					1.5793	15.8992
Propionaldehyde	0.1095	2.3854	0.1736	8.2620	0.1441	3.5564	0.0067	0.0085	0.4126	0.0868	1.5816	16.7271
Styrene	0.0520	1.0124	0.0738	3.5116	0.6191	1.5116					0.6722	7.4527
Toluene	0.2873	2.0713	0.1533	7.2960	18.4847	3.1405	0.0459	0.0581	2.8123	0.5915	1.3967	36.3376
Xylene	0.1812	1.4567	0.1070	5.0913	10.4223	2.1915	0.0427	0.0540	2.6141	0.5498	0.9746	23.6852

Table 4-3. Texas Criteria Emission Estimates for Trend Years 2008 to 2040 (Tons Per Year)

Year	Emissions (tons)					
	VOC	NO_X	CO	PM_{10}	PM_{25}	SO_2
2008	3,044.77	9,554.55	36,205.44	714.66	631.55	1,097.39
2009	2,844.89	8,689.69	35,115.22	696.61	617.51	996.58
2010	2,804.65	8,626.12	34,544.54	685.75	608.26	987.92
2011	2,830.51	8,710.08	34,562.54	685.57	609.39	996.49
2012	2,714.98	8,525.01	32,790.20	648.50	573.16	976.08
2013	2,746.22	8,693.73	33,040.26	653.65	577.81	992.00
2014	2,771.93	8,764.60	33,400.84	661.21	584.34	1,000.38
2015	2,826.18	8,965.67	33,826.24	668.98	591.63	1,023.27
2016	2,879.12	9,161.07	34,243.96	676.63	598.79	1,045.52
2017	2,933.17	9,362.92	34,671.96	684.45	606.12	1,068.45
2018	2,984.45	9,564.55	35,092.23	692.09	613.26	1,091.10
2019	3,035.00	9,762.05	35,508.42	699.67	620.33	1,113.31
2020	3,082.74	9,948.32	35,908.60	706.99	627.14	1,134.24
2021	3,125.18	10,113.20	36,276.76	713.76	633.39	1,152.77
2022	3,166.29	10,271.52	36,637.53	720.41	639.52	1,170.58
2023	3,207.36	10,428.35	36,998.44	727.06	645.64	1,188.26
2024	3,249.47	10,589.52	37,367.70	733.87	651.91	1,206.41
2025	3,291.28	10,748.20	37,736.10	740.67	658.16	1,224.32
2026	3,333.05	10,906.34	38,105.59	747.49	664.42	1,242.16
2027	3,374.08	11,059.99	38,471.50	754.24	670.61	1,259.55
2028	3,416.79	11,220.46	38,849.97	761.21	677.02	1,277.67
2029	3,462.16	11,392.71	39,247.93	768.53	683.75	1,297.11
2030	3,510.13	11,575.86	39,664.47	776.18	690.81	1,317.76
2031	3,559.92	11,769.30	40,096.04	784.12	698.14	1,339.47
2032	3,610.17	11,965.49	40,532.98	792.17	705.57	1,361.47
2033	3,660.34	12,160.87	40,971.02	800.24	713.01	1,383.38
2034	3,709.80	12,353.08	41,406.22	808.28	720.42	1,404.93
2035	3,759.63	12,546.27	41,845.54	816.41	727.89	1,426.60
2036	3,809.53	12,739.11	42,286.93	824.58	735.41	1,448.24
2037	3,858.56	12,927.76	42,724.34	832.70	742.86	1,469.40
2038	3,907.06	13,114.04	43,160.26	840.80	750.29	1,490.30
2039	3,954.79	13,297.16	43,593.10	848.87	757.67	1,510.83
2040	4,002.48	13,479.53	44,028.03	856.98	765.08	1,531.28

Figure 4-2. Texas Criteria Emission Estimates for Trend Years 2008 to 2040



5.0 References

1. U.S. EPA. *Quality Assurance Project Plan for the Development of a Commercial Aircraft Hazardous Air Pollutants Emission Inventory Methodology*. May 2009.

2. U.S. EPA, *Calculating Piston-Engine Aircraft Activity for the Draft 2011 National Emissions Inventory*. June 2012.

3. Title 14 - Code of Federal Regulations - Part 241 Uniform System of Accounts and Reports for Large Certificated Air Carriers. T-100 Segment (All Carriers) - Published Online by Bureau of Transportation Statistics. http://www.transtats.bts.gov/Fields.asp?Table_ID=293. Accessed November 17, 2014.

4. Federal Aviation Administration. Terminal Area Forecast (TAF). http://aspm.faa.gov/main/taf.asp. Accessed November 17, 2014.

5. Federal Aviation Administration. ATADS: Airport Operations: Standard Report. http://aspm.faa.gov/opsnet/sys/Airport.asp. Accessed December 4, 2014.

6. Federal Aviation Administration. 2009. *Airport Master Record Form 5010*. Published by GCR & Associates. http://www.gcr1.com/5010WEB/. Accessed May 21, 2009.

7. U.S. EPA. *Calculating Piston-Engine Aircraft Airport Inventories for Lead for the 2008 National Emissions Inventory*. http://www.epa.gov/otaq/regs/nonroad/aviation/420b10044.pdf. Accessed March 30, 2011.

8. Title 14 - Code of Federal Regulations - Part 234 Airline Service Quality Performance Reports. On-Time Performance - Published Online by Bureau of Transportation Statistics. http://transtats.bts.gov/Fields.asp?Table_ID=236. Accessed May 21, 2009.

9. U.S. EPA Support Center for Regulatory Air Models - *SCRAM Mixing Height Data*. http://www.epa.gov/scram001/mixingheightdata.htm. Accessed May 21, 2009.

10. ICAO Engine Exhaust Emissions Data Bank. http://www.caa.co.uk/default.aspx?catid=702&pagetype=90. Accessed May 21, 2009.

11. U.S. EPA. *Documentation for Aircraft, Commercial Marine Vessel, Locomotive, and Other Nonroad Components of the National Emissions Inventory, Volume I Methodology*. February 10, 2005.

12. U.S. EPA/ FAA. *Recommended Best Practice for Quantifying Speciated Gas-Phase Organic Gas Emissions from Aircraft Equipped with Turbofan, Turbojet, and Turboprop Engines*. February 2009.

13. TCEQ 2012, Development of Statewide Annual Emissions Inventory and Activity Data for Airports, August 17, 2012

14. Market Realist. http://marketrealist.com/2014/12/pace-global-airline-industry-growth-slows-september/. July 29, 2015.

Appendix A
Communication Log – Comprehensive Log of Communication Between ERG and Each Airport

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green@abilenetx.com	Janet Mangum	Call - 11/19/2014 2:00:00 PM	Don Green	Left voicemail.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green@abilenetx.com	Janet Mangum	Call returned - 11/20/2014 11:00:00 AM	Don Green	Call returned.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green@abilenetx.com	Janet Mangum	Email - 11/24/2014 2:37:00 PM	Don Green	Sent email requesting operations data.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green@abilenetx.com	Janet Mangum	Email returned - 12/3/2014 10:00:00 AM	Don Green	Submitted 2012, 2013, and 2014 operations data; no taxi time data. ABI has some electric gates on the airport, and no electric GSEs.
RKP	Aransas Co	Gene Johnson, Airport Manager	361-790-0141	manager@krkp.com	Janet Mangum	Call - 11/19/2014 2:09:00 PM	Gene Johnson	Uncontrolled airport. Does not record LTO.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dick@austintexas.gov / kane.carpenter@ci.austin.tx.us	Janet Mangum	Call - 11/19/2014 2:13:00 PM	Stephen Dick	Left voicemail.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dick@austintexas.gov / kane.carpenter@ci.austin.tx.us	Janet Mangum	Call returned - 11/24/2014 10:00 AM	Stephen Dick	Call returned.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dick@austintexas.gov / kane.carpenter@ci.austin.tx.us	Janet Mangum	Email - 11/24/2014 11:28 AM	Stephen Dick	Sent email requesting operations data.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dick@austinte	Janet Mangum	Email returned -	Stephen Dick	Submitted 2013 and 2014 LTOs by aircraft type; no

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
				xas.gov / kane.carpenter@ci.austin.tx.us		12/3/2014 9:35 AM		taxi time data.
LBX	Brazoria County	Jeff Bilyeu	979-849-5755	jbilyeu@brazoria-county.com	Janet Mangum	Call - 11/19/2014 2:19:00 PM	Chris	Left message for Jeff Bilyeu. LBX is an uncontrolled airport, and data, if any, is incomplete.
DWH	David Wayne Hooks Memorial	Roger Schmidt	281-376-5436	andre.harris@faa.gov	Janet Mangum	Call - 11/19/2014 2:24:00 PM	Roger Schmidt	Referred me to the tower chief, Andre Harris, at (281) 376-9721.
DWH	David Wayne Hooks Memorial	Andre Harris, Tower Chief	281-376-9721	jonathan.cook@faa.gov	Janet Mangum	Call - 11/19/2014 2:54:00 PM	Jonathan Cook	Referred me to the ATADS dataset (https://asPM.faa.gov/opsnet/sys/Airport.asp).
TPL	Draughon-Miller Central Texas Rgnl	Sharon Rostovich, Airport Manager	254-298-5350		Janet Mangum	Call - 11/19/2014 2:26:00 PM	Sharon Rostovich	Left voicemail.
TPL	Draughon-Miller Central Texas Rgnl	Sharon Rostovich, Airport Manager	254-298-5350		Janet Mangum	Call - 2/3/2015 12:55 PM	Sharon Rostovich	Left voicemail.
GGG	East Texas Rgnl	Roy Miller, Airport Director	903-643-3031	Roy.Miller@co.gregg.tx.us	Janet Mangum	Call - 11/19/2014 2:30:00 PM	Roy Miller	Left voicemail.
GGG	East Texas Rgnl	Roy Miller, Airport Director	903-643-3031	Roy.Miller@co.gregg.tx.us	Janet Mangum	Call - 2/3/2015 12:50 PM	Roy Miller	Left voicemail.
GGG	East Texas Rgnl	Warren Henry	903-643-3031		Janet Mangum	Call returned - 2/5/2014 10:04 AM	Warren Henry	Left voicemail.
GGG	East Texas Rgnl	Warren Henry	903-643-3031		Janet Mangum	Call - 2/9/2015 12:20 AM	Brad Kranzman, Assistant	Provided American Eagle's landings data. (Jan 2012 – 53 landings by ATRs (37 seater); Feb – Dec 2012 – 643 landing by RJs (Embraer 135s); Jan – Dec

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								2014 – 681 RJs (Embraer 145s)).
CLL	Easterwood Field	John Stuart, Astin Aviation	979-775-5255	jstuart@astin.us	Janet Mangum	Call - 11/19/2014 2:34:00 PM	Tabatha	Updated contact to John Stuart (jstuart@astin.us) from John Happ. Left message for John Stuart.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Call - 11/21/2014--1:45 PM	Monica Vera	Left voicemail.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email - 11/24/2014 12:07:00 PM	Monica Vera	Sent email requesting operations data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email returned - 11/24/2014 5:39 PM	Monica Vera	No operations data or taxi time data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Roger Chang	Email - 11/25/2014 2:19 PM	Monica Vera	Sent email requesting GSE and APU usage data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email returned - 12/12/2014 12: 58 PM	Monica Vera	Ground power units (GPU) applied to all United Airline aircraft to minimize APU usage on jet way B11. The current GPU used is TLD Green model number GPU-409-E-CUP-28.
EFD	Ellington Field	Carlos Ortiz	281-233-1842		Janet Mangum	Call - 11/21/2014 1:50 PM	Carlos Ortiz	Left voicemail.
EFD	Ellington Field	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/12/2014	Mike Kenney	Left voicemail.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
EFD	Ellington Field	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call - 12/18/2014 10:47 AM	Mike Kenney	Left message for Mike Kenney.
EFD	Ellington Field	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/18/2014 2:00 PM	Mike Kenney	Mr. Kenney said he would talk to his clients (the Houston Airports) to see what he can provide. Once he talks to them he will contact TCEQ, and email ERG the data.
EFD	Ellington Field	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com			Mike Kenney	TCEQ has spoken with Mike Kenney and/or Jim Parise about providing an emissions inventory to ERG by the end of February.
EFD	Ellington Field	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Email returned - 3/11/2015 11:13 AM	Mike Kenney	Provided EDMS files for 2012, 2014, 2017, 2020, 2023, 2026, and 2028.
IAH	George Bush Intercontinental/Houston	Carlos Ortiz	281-233-1842		Janet Mangum	Call - 11/21/2014 1:50 PM	Carlos Ortiz	Left voicemail.
IAH	George Bush Intercontinental/Houston	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/12/2014	Mike Kenney	Left voicemail.
IAH	George Bush Intercontinental/Houston	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call - 12/18/2014 10:47 AM	Mike Kenney	Left message for Mike Kenney.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
IAH	George Bush Intercontinental/Houston	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/18/2014 2:00 PM	Mike Kenney	Mr. Kenney said he would talk to his clients (the Houston Airports) to see what he can provide. Once he talks to them he will contact Anusuya, and email ERG the data.
IAH	George Bush Intercontinental/Houston	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com			Mike Kenney	TCEQ has spoken with Mike Kenney and/or Jim Parise about providing an emissions inventory to ERG by the end of February.
IAH	George Bush Intercontinental/Houston	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Email returned - 3/11/2015 11:13 AM	Mike Kenney	Provided EDMS files for 2012, 2014, 2017, 2020, 2023, 2026, and 2028.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Call - 11/21/2014 2:15 PM	Curtis Benkendorfer	Required an email.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Email - 11/21/2014 1:18 PM	Curtis Benkendorfer	Sent email requesting operations data.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Email returned - 11/26/2014 11:18 AM	Curtis Benkendorfer	Submitted LTO data as annual totals (2012 = 69,236 LTOs; 2014 = 68,775 LTOs), and estimated taxi times (Taxi-in = 5 minutes; Taxi-out = 5 minutes).
TA90	Green Acres	Ranson Fullinwider	409-931-1311		Janet Mangum	Call - 11/21/2014 2:20 PM	Ranson Fullinwider	Invalid phone number.
AXH	Houston-Southwest	Len Franklin	281-431-2581	manager@houstonairport.com	Janet Mangum	Call - 11/21/2014-- 2:29 PM	Len Franklin	Left voicemail. Operator indicated that AXH is a small airstrip without a

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								tower. Other companies (i.e. flight school) use the air strip.
AXH	Houston-Southwest	Len Franklin	281-431-2581	manager@houstonairport.com	Janet Mangum	Call returned - 11/21/2014 12:00:00 AM	Len Franklin	Left voicemail.
AXH	Houston-Southwest	Len Franklin	281-431-2581	manager@houstonairport.com	Janet Mangum	Email - 11/24/2014 2:53 PM	Len Franklin	Sent email requesting operations data.
T41	La Porte Muni	David Mick, Airport Manager	281-471-9650	mickd@laportetx.gov	Janet Mangum	Call - 11/21/2014 2:34 PM	Shonda	Left message for David Mick.
T41	La Porte Muni	David Mick, Airport Manager	281-471-9650	mickd@laportetx.gov	Janet Mangum	Call returned - 11/24/2014 3:11 PM	Shonda	Does not keep inventory; estimates 80,000 operations for 2014.
LRD	Laredo Intl	Jose Flores, Airport Manager	956-795-2000	jlflores@ci.laredo.tx.us	Janet Mangum	Call - 11/21/2014 2:36 PM	Lucy	Left message for Jose Flores.
LRD	Laredo Intl	Jose Flores, Airport Manager	956-795-2000	jlflores@ci.laredo.tx.us	Janet Mangum	Call - 1/9/2015 12:20 PM	Guillermo Villalobos	Provided email address (gvillalob2@ci.laredo.tx.us).
LRD	Laredo Intl	Guillermo Villalobos, Operations Manager	956-795-2000	gvillalob2@ci.laredo.tx.us	Janet Mangum	Email - 1/9/2015 12:20 PM	Guillermo Villalobos	Sent email requesting operations data.
LRD	Laredo Intl	Guillermo Villalobos, Operations Manager	956-795-2000	gvillalob2@ci.laredo.tx.us	Janet Mangum	Email returned - 1/13/2015 10:08 AM	Guillermo Villalobos	Submitted 2014 operations data for heavy cargo aircraft. LRD does not keep track of general aviation and scheduled airline commuter aircraft. Estimated RJ-145 with 16 operations 7 days a week, and B757 with 2 operations 6 days per week. Estimated average taxi times of 3-4 minutes.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Janet Mangum	Call - 11/21/2014 2:37 PM	Scott Smith	Left voicemail.
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Janet Mangum	Call returned - 11/24/2014	Scott Smith	Call returned.
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Janet Mangum	Email - 11/24/2014 1:03 PM	Scott Smith	Sent email requesting operations data.
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Janet Mangum	Email returned - 11/24/2014 3:59 PM	Scott Smith	Submitted 2012 and 2014 through October operations data (2012= 62,497 ops, 2014 through October = 52,392 ops). Estimated 5% of activity are jet/turbine aircraft, and 95% are piston aircraft. Listed ground equipment units: Galaxy FBO: 4 electric powered, 1 gas powered General Aviation Services FBO: 4 electric powered, 1 gas powered Wing Jet Center: 1 electric powered, 1 gas powered Customs/Border Protection: 3 gas powered Drug Enforcement Administration: 2 gas powered
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Jennifer Sellers	Email - 2/3/2015 10:25 AM	Scott Smith	Sent email requesting the annual total for 2014 operations.
CXO	Lone Star Executive	Scott Smith	936-788-8311	scott.smith @mctx.org	Jennifer Sellers	Email returned - 2/9/2015 5:13 PM	Scott Smith	Submitted 2014 operations data (2014 = 61,035 ops [Local = 28,213 ops; Itinerant = 32,822 ops; IFR = 9,202 ops]).

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
LBB	Lubbock Preston Smith Intl	Kelly Campbell, Airport Manager	806-775-3126 x 3131		Janet Mangum	Call - 11/21/2014 2:40 PM	Kelly Campbell, Airport Manager	Left voicemail.
LBB	Lubbock Preston Smith Intl	Karen Williams	806-775-3127		Janet Mangum	Call - 1/9/2015 11:15 AM	Karen Williams	Left message for Karen Williams.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call - 11/21/2014 2:44 PM	Robbie Ramirez	Left voicemail.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call returned - 11/21/2014	Robbie Ramirez	Indicated that the activity report was on the MFE website (http://www.mcallenairport.com/docs/stats/STATISTICS.pdf). Report includes operations for 2013 and 2014.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call - 11/21/2014	Robbie Ramirez	Mr. Ramirez verified the website and provided the tower contact information (mfe@rvainc.com). His first name was Perry, but Mr. Ramirez could not remember his last name.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Email - 1/9/2015 11:51 AM	Robbie Ramirez	Sent email requesting operations data.
MFE	Mcallen MILLER INTL	Perry		mfe@rvainc.com	Janet Mangum	Email - 1/9/2015 12:10 PM	Perry	Sent email requesting operations data.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Jennifer Sellers	Email - 2/3/2015 3:07 PM	Robbie Ramirez	Sent email requesting operations data for 2012.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
MAF	Midland Intl	Justine Ruff, Interim Director/ADA Appliance Officer	432-560-2200 x 3010		Janet Mangum	Call - 11/21/2014 2:50 PM	Justine Ruff	Left voicemail.
MAF	Midland Intl	Justine Ruff, Interim Director/ADA Appliance Officer	432-560-2200 x 3010		Janet Mangum	Call - 1/9/2015 11:22 AM	Justine Ruff	Left voicemail.
F39 (GYI)	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Call - 11/21/2014 2:45 PM	Mike Shahan	Agreed to provide data.
F39 (GYI)	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Email - 11/21/2014 2:55 PM	Mike Shahan	Sent email requesting operations data.
F39 (GYI)	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Email returned - 11/21/2014 3:16 PM	Mike Shahan	Submitted 2012 and 2014 operations counted by control tower staff that only worked 8 hours per day in 2012, and 12 hours per day in 2014 (2012 = 33,343 ops, 2014 = 72,975 ops). They have eight electric gates that control access in/out of the airport. The FBO does utilize an electric tug for moving aircraft. Submitted taxi time data (Taxi-in = 2 minutes, and Taxi-out = 5 minutes).
ODO	Odessa-Schlemeyer Field	John Landgraf, Airport Manager	432-332-5058	lca@lcaodessa.com	Janet Mangum	Call - 11/21/2014 3:04 PM	Amanda	Left message for John Langraf.
LVJ	Pearland Rgnl	Leah Langfred	281-482-7551	manager@flypearland.com	Janet Mangum	Call - 11/21/2014 3:13 PM	Leah Langfred	Referred me to the ATADS dataset (https://asPM.faa.gov/opsn

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								et/sys/Airport.asp).
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese @AMarillo. gov	Janet Mangum	Call - 11/21/2014 3:30 PM	Sarah Freese	Left voicemail.
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese @AMarillo. gov	Janet Mangum	Call - 1/9/2015 11:27 AM	Sarah Freese	Left voicemail.
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese @Amarillo. gov	Janet Mangum	Call - 2/3/2015 12:45 PM	Sarah Freese	Left message for Sarah Freese.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crim m@cosatx. us	Janet Mangum	Call - 11/21/2014 3:36 PM	Janice Crimm	Left voicemail.
SJT	San Angelo Rgnl/Mathis Field	Alan Angers (American Airline)	817-931-5423	alan.angers @aa.com	Janet Mangum	Call - 11/21/2014 3:34PM	Alan Angers (American Airline)	Left voicemail.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crim m@cosatx. us	Janet Mangum	Email - 11/24/2014 12:40 PM	Janice Crimm	Sent email requesting operations data.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crim m@cosatx. us	Janet Mangum	Email returned - 12/4/2014 9:54 AM	Janice Crimm	Submitted aircraft make/models at the SJT (Embraer ERJ-145, Canadair CRJ-200); flight information (5 flights Sunday thru Friday, 4 flights on Saturday); and taxi time data (Taxi-in= 5 minutes, Taxi-out = 5 minutes).
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crim m@cosatx. us	Jennifer Sellers	Email - 2/4/2015 9:32 AM	Janice Crimm	Sent email clarifying data provided. (i. e. does the data apply to 2012 and 2014, and how the operations are allocated to each aircraft make/model).

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Janet Mangum	Call - 2/16/2015 2:05 PM	Janice Crimm	Data submitted are LTOs.
HYI	San Marcos Muni	Stephen Alexander	512-216-6039	salexander@texasaviationpartners.com	Janet Mangum	Call - 11/21/2014 3:39 PM	Operator	Left message for Stephen Alexander and Cassidy Berenato. Ms. Berenato's contact information is cberenato@texasaviationpartners.com.
HYI	San Marcos Muni	Stacey Batch	(512) 216-6039		Janet Mangum	Call returned - 11/26/2014 12:10 PM	Stacey Batch	Submitted 2012 and 2014 data (2012--61,722; 2014--44,000 (Jan-Oct)).
HYI	San Marcos Muni	Stacey Batch	(512) 216-6039		Janet Mangum	Call - 2/16/2015 1:43 PM	Stacey Batch	Submitted data are operations.
GLS	Scholes Intl At Galveston	Hud Hopkins	409-741-4609	manager@houstonairport.com	Janet Mangum	Call - 11/21/2014 3:43 PM	Steve	Left message for Larry Thompson.
SPS	Sheppard Afb/Wichita Falls Muni	Sarah Johnson, Airport Manager	940-855-3623	sarah.johnson@wichitafallstx.gov	Janet Mangum	Call - 11/21/2014 3:51 PM	Sarah Johnson	Mailbox full.
SGR	Sugar Land Rgnl	Phillip W. Savko	281-275-2100	psavko@sugarlandtx.gov	Janet Mangum	Email - 11/21/2014 3:55 PM	Phillip W. Savko	Sent email requesting operations data.
SGR	Sugar Land Rgnl	Krystal Escamilla, Airport Specialist	281-275-2124	kescamilla@sugarlandtx.gov	Janet Mangum	Email returned - 12/1/2014 3:22 PM	Krystal Escamilla	Submitted 2012 operations and 2014 operations through September. (2012 = 70,706 LTOs; 2014 through September = 54,997 LTOs). No taxi time data available.
SGR	Sugar Land Rgnl	Krystal Escamilla, Airport Specialist	281-275-2124	kescamilla@sugarlandtx.gov	Jennifer Sellers	Email - 2/4/2015 12:14 PM	Krystal Escamilla	Sent email requesting 2014 operations for October, November, and December.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
SGR	Sugar Land Rgnl	Krystal Escamilla, Airport Specialist	281-275-2124	kescamilla@sugarlandtx.gov	Jennifer Sellers	Email - 2/4/2015 12:46 PM	Krystal Escamilla	Submitted the annual total for 2014 operations. (2014 = 86, 384 LTOs)
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Janet Mangum	Call - 11/21/2014 4:12 PM	Cheryl McInnis	Referred to TYR website (www.flytyr.com).
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email - 2/4/2015 10:58 AM	Cheryl McInnis	Sent email requesting specific web link to data.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email returned - 2/4/2015 11:02 AM	Cheryl McInnis	Responded with a web link (http://www.cityoftyler.org/Departments/Airport/GeneralAviation.aspx) for general airport information.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email - 2/4/2015 11:10 AM	Cheryl McInnis	Sent email requesting operations data.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email returned - 2/4/2015 11:39 AM	Cheryl McInnis	Indicated that they do not track operations data. Provided the contact information for Floyd Munroe, ATCT Manager (tyr@rvainc.com), who might be of assistance.
TYR	Tyler Pounds Rgnl	Floyd Munroe, ATCT Manager		tyr@rvainc.com	Jennifer Sellers	Email - 2/4/2015 11:52 AM	Floyd Munroe	Sent email requesting operations data.
TYR	Tyler Pounds Rgnl	Floyd Munroe, ATCT Manager		tyr@rvainc.com	Jennifer Sellers	Email returned - 2/11/2015 9:42 AM	Floyd Munroe	Refusal to provide data.
HRL	Valley Intl	Bryan Wren		bryan@flythevalley.com	Janet Mangum	Email - 1/9/2015 10:41:00 AM	Bryan Wren	Sent email requesting operations data.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HRL	Valley Intl	Bryan Wren		bryan@flythevalley.com	Janet Mangum	Email returned - 1/9/2015 2:51:00 AM	Bryan Wren	Submitted 2012 and 2014 operations data (2012 ops: 36,500; 2014 ops: 39,200). United Airlines uses electric GSEs.
VCT	Victoria Rgnl	Jason Milewski, Airport Manager	361-578-2704	jmilewski@prautes.com & sturner@flyvictoriatx.com	Janet Mangum	Call - 11/21/2014 4:18 PM	Jason Milewski	Left voicemail.
EYQ	Weiser Air Park	Cecil Weiser	281-469-8227		Janet Mangum	Call - 11/21/2014 4:21 PM	Gloria Weiser	Indicated that operations data is not tracked. EYQ is a very small airport.
IWS	West Houston	Woody Lesikar	281-492-2130	woody@westhoustonairport.com	Janet Mangum	Call - 11/21/2014 4:18 PM	Woody Lesikar	Left voicemail.
HOU	William P Hobby	Carlos Ortiz	281-233-1842		Janet Mangum	Call - 11/21/2014 1:50 PM	Carlos Ortiz	Left voicemail.
HOU	William P Hobby	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Janet Mangum	Call - 11/21/2014 1:00 PM	Elaine Karnes	Agreed to provide data.
HOU	William P Hobby	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Janet Mangum	Email - 11/21/2014 1:08 PM	Elaine Karnes	Sent email requesting operations data.
HOU	William P Hobby	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Janet Mangum	Email returned - 12/12/2014 10:39 AM	Elaine Karnes	Submitted via email Southwest Airlines GSE inventory by fuel type for William P. Hobby Airport in Houston (HOU) for 2012 and 2014, and average taxi time data. And noted all gates at HOU are electrified

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HOU	William P Hobby	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Roger Chang	Email - 12/12/2014 10:03 AM	Elaine Karnes	Sent email asking what year the gates at HOU were electrified.
HOU	William P Hobby	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Roger Chang	Email returned - 12/12/2014 11:10 AM	Elaine Karnes	Responded with 2006 as the year the gate electrification was completed.
HOU	William P Hobby	William Zrioka	281-233-1364	william.zrioka@houstontx.gov	Janet Mangum	Email - 12/12/2014 11:53 AM	William Zrioka	Sent email requesting operations data.
HOU	William P Hobby	William Zrioka	281-233-1364	william.zrioka@houstontx.gov	Janet Mangum	Email returned - 12/12/2014 1:24 PM	William Zrioka	Forwarded message to new contact, Jim Parise (jim.parise@houstontx.gov, 281-233-1756).
HOU	William P Hobby	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/12/2014	Mike Kenney	Left voicemail.
HOU	William P Hobby	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call - 12/18/2014 10:47 AM	Mike Kenney	Left message for Mike Kenney.
HOU	William P Hobby	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Call returned - 12/18/2014 2:00 PM	Mike Kenney	Mr. Kenney said he would talk to his clients (the Houston Airports) to see what he can provide. Once he talks to them he will contact Anusuya, and email ERG the data.
HOU	William P Hobby	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com				TCEQ has spoken with Mike Kenney and/or Jim Parise about providing an emissions inventory to ERG by the end of February.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HOU	William P Hobby	Mike Kenney, Contractor for Jim Parise at Houston Area Airports	727-578-5152	MKenney@KBEnv.com	Jennifer Sellers	Email returned - 3/11/2015 11:13 AM	Mike Kenney	Provided EDMS files for 2012, 2014, 2017, 2020, 2023, 2026, and 2028.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Janet Mangum	Call - 11/21/2014 4:25 PM	Kris Russell	Left voicemail.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Janet Mangum	Call returned - 11/21/2014	Kris Russell	Left voicemail.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Janet Mangum	Email - 11/24/2014 2:17 PM	Kris Russell	Sent email requesting operations data.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email - 11/24/2014 1:51 PM	Kris Russell	Sent email requesting additional EDMS files
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email returned - 12/2/2014 6:20 PM	Kris Russell	Agreed to provide data. Noted that 2014 would be available at the beginning of January
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email returned - 12/3/2014 1:15 PM	Kris Russell	Provided EDMS files for 2006, 2012, and 2018.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email - 1/20/2015 1:47 PM	Kris Russell	Sent email requesting an estimated time frame to expect the 2014 files.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email returned - 1/20/2015 2:54 PM	Kris Russell	Estimated that it would take two weeks to prepare and send the 2014 files.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email - 1/21/2015 12:22 PM	Kris Russell	Sent email requesting taxi time data.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email returned - 1/22/2015 12:39 PM	Kris Russell	Agreed to include taxi time data, as the defaults are not accurate.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email - 2/12/2015 3:02 PM	Kris Russell	Sent email requesting 2014 EDMS files.
DFW	Dallas Fort Worth	Kris Russell	972-973-5591	FRussell@dfwairport.com	Roger Chang	Email returned - 2/12/2015 5:19 PM	Kris Russell	Submitted 2014 EDMS files.
1F7	Airpark East		214-914-5153		Janet Mangum	Call - 11/25/2014 10:35 AM		Left voicemail.
30F	Lakeview	Randy Squier	214-850-8180		Janet Mangum	Call - 11/25/2014 1:38 PM	Randy Squier	Indicated that 30F was a small airport, and unwilling to share operations data.
37TE	JOHNNIE VOLK FIELD	M. E. Leonard	713-986-6006		Janet Mangum	Call - 11/25/2014 10:44 AM		Invalid phone number.
37X	SKYDIVE HOUSTON	Kim Suarez/manager	832-607-5698		Janet Mangum	Call - 11/25/2014 10:48 AM	Kim Suarez/manager	Left voicemail.
38TE	JOHN S DUNN HELISTOP	Eric VonWenckstern	713-704-3590		Janet Mangum	Call - 11/25/2014 12:35 PM	Eric VonWenckstern	Left voicemail.
3T2	WOLFE AIR PARK	John Heitz/manager	281-309-1959		Janet Mangum	Call - 11/25/2014 12:38 PM	John Heitz/manager	Left voicemail.
50F	Bourland Field	Natalie Rix/manager	817-396-4554		Janet Mangum	Call - 11/25/2014	Natalie Rix	Indicated that 50F is a small airport that does not record

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
						12:42 PM		operations data.
52F	Northwest Regional	Glen Hyde/manager	817-430-1905		Janet Mangum	11/25/2014--12:47 PM	Glen Hyde/manager	Left voicemail.
54T	RWJ AIRPARK		281-383-2320		Janet Mangum	11/25/2014--12:52 PM		Left voicemail.
6R3	CLEVELAND MUNI	Darlene Dean/manager	281-592-1282		Janet Mangum	11/25/2014--1:00 PM	Darlene Dean	Indicated that 6R3 is a small airport that does not record operations data.
6R5	ALVIN AIRPARK	Robbie Hering Corn/manager	281-331-5991		Janet Mangum	11/25/2014--1:15 PM	Robbie Hering Corn/manager	Left voicemail.
6TA5	HHI HITCHCOCK	Felton M Baker/manager	281-485-1777		Janet Mangum	11/25/2014--1:18 PM	Felton M Baker/manager	No answer, and no voicemail.
9X1	WILLIAMS	Jody Kaluza	512-247-7678		Janet Mangum	11/25/2014--1:20 PM	Jody Kaluza	Left voicemail.
ACT	WACO REGIONAL		254-750-8475		Janet Mangum	Call - 11/25/2014 1:30 PM		Left voicemail.
ADS	Addison	Joe McAnally/Operations manager	972-392-4861		Janet Mangum	Call - 11/25/2014 1:32 PM	Joe McAnally	Left voicemail.
ADS	Addison	Joe McAnally/Operations manager	972-392-4861		Janet Mangum	Call returned - 12/2/2014 1:12 PM	Joe McAnally	Estimated 95,000 for 2012 & 2014
AFW	Fort Worth Alliance	Christian Childs	800-318-9268		Janet Mangum	Call - 11/25/2014 1:36 PM	Christian Childs	Left voicemail.
AFW	Fort Worth Alliance	Christian Childs	800-318-9268	christian.childs@hillwood.com	Janet Mangum	Call returned - 1/30/2015 11:10 AM	Christian Childs	Agreed to help, but noted that it would take time depending on the detail required.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
AFW	Fort Worth Alliance	Christian Childs	800-318-9268	christian.childs@hillwood.com	Janet Mangum	Email - 1/30/2015 11:10 AM	Christian Childs	Sent email requesting operations data.
BMQ	BURNET MUNI KATE CRADDOCK FIELD	Crista Bromley/ manager	512-756-6655		Janet Mangum	Call - 11/25/2014 1:40 PM	Crista Bromley/manager	Left voicemail.
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INT'L		956-542-4373 x 307		Janet Mangum	Call - 11/25/2014 1:43 PM		Left voicemail.
CNW	TSTC WACO	Kevin Dorton, Director	254-867-4801		Janet Mangum	Call 11/25/2014 1:51 PM	Kevin Dorton	Left voicemail.
CPT	Cleburne Muni	Sharlette Wilson	817-641-5456		Janet Mangum	Call 11/25/2014 1:53 PM	Sharlette Wilson	Left voicemail.
CPT	Cleburne Muni	Sharlette McLaurin	817-641-5456		Janet Mangum	Call - 12/2/2014 2:55 PM	Sharlette McLaurin	Submitted data (2012: 8,550; 2014: 24,456).
CPT	Cleburne Muni	Sharlette McLaurin	817-641-5456		Janet Mangum	Call - 2/18/2015 12:24 PM	Sharlette McLaurin	Submitted data are operations.
CRP	CORPUS CHRISTI INTL	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 11/25/2014 1:56 PM	Carl Gross	Left voicemail.
CRP	CORPUS CHRISTI INTL	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 12/2/2014 2:39 PM	Carl Gross	2012=85,852; 2014=59487; 2012 breakdown: air taxi=19,585, military=46,344, gen.aviation=19,923; 2014: air taxi=13,576, military=31,752, gen.aviation=14,159

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
CRP	CORPUS CHRISTI INTL	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 2/19/2015 4:38 PM	Carl Gross	Submitted data are operations.
DAL	Dallas Love Field	Terry Mitchell	214-670-6086		Janet Mangum	Call - 11/25/2014 2:00 PM	Terry Mitchell	Left voicemail.
DAL	Dallas Love Field	Elaine Karnes (Southwest Airlines)	214-792-3572	elaine.karnes@wnco.com	Janet Mangum	Email returned - 12/12/2014 12:06 PM	Elaine Karnes	Submitted via email Southwest Airlines GSE inventory by fuel type for Dallas Love Field (DAL) for 2012 and 2014, and average taxi time data. And noted all gates at DAL are electrified.
DAL	Dallas Love Field	Terry Mitchell	214-670-6086	terry.mitchell@dallascityhall.com	Janet Mangum	Email returned - 12/12/2014 5:04 PM	Terry Mitchell	Provided 2012 - 2014 operations data via email.
DTO	Denton Muni	Quentin Hix	940-349-7736	quentin.hix@cityofdenton.com	Janet Mangum	Call - 11/25/2014 2:07 PM	Quentin Hix	
DTO	Denton Muni	Quentin Hix	940-349-7736	quentin.hix@cityofdenton.com	Janet Mangum	Email - 11/25/2014 2:08 PM	Quentin Hix	Sent email requesting operations data.
DTO	Denton Muni	Quentin Hix	940-349-7736	quentin.hix@cityofdenton.com	Janet Mangum	Email - 1/30/2015 10:26 AM	Quentin Hix	Sent email requesting operations data.
DTO	Denton Muni	Patrick Carreno, Airport Ops Mgr	940-349-7736	patrick.carreno@cityofdenton.com	Janet Mangum	Email returned - 2/2/2015 10:41 AM	Patrick Carreno, Airport Ops Mgr	Provided 2012 and 2014 operations data via email.
F41	Ennis Muni	Jerry Hammock	972-875-4279		Janet Mangum	Call - 11/25/2014 2:12 PM	Jerry Hammock	F41 is a small airport that does not record that operations data. Mr. Hammock estimates about 40 LTOs/mo.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
F46	Rockwall Muni	Todd Parks	972-771-0151		Janet Mangum	Call - 11/26/2014 11:21 AM	Todd Parks	F46 is a small airport that does not record operations data.
F69	Air Park-Dallas	Terry Chapin	972-248-4265		Janet Mangum	Call - 11/26/2014 11:25 AM	Terry Chapin	Left voicemail.
FTW	Fort Worth Meacham Intl	Jeff Kloska	817-392-5400		Janet Mangum	Call 11/26/2014 11:27 AM	Operator	Left message for the manager.
FWS	Fort Worth Spinks	Will Hickman, Op Mgr	(817) 392-5430	will.hickman@fortworthtexas.gov	Janet Mangum	Email - 11/26/2014 11:32 AM	Will Hickman	Sent email requesting operations data.
FWS	Fort Worth Spinks	Will Hickman, Op Mgr	(817) 392-5430	will.hickman@fortworthtexas.gov	Janet Mangum	Email - 11/26/2014 2:24 PM	Will Hickman	Referred me to the ATADS dataset (https://asPM.faa.gov/opsnet/sys/Airport.asp).
GKY	Arlington Muni	Richard Stout, OP Mgr	817-459-5571		Janet Mangum	Call - 11/26/2014 11:43 AM	Operator	Left message for the manager.
GPM	Grand Prairie Muni	Mike Day, Op Officer	972-237-7591	mday@gptx.org	Janet Mangum	Email - 11/26/2014 11:52 AM	Mike Day	Sent email requesting operations data.
GPM	Grand Prairie Muni	Mike Day, Op Officer	972-237-7591	mday@gptx.org	Janet Mangum	Email returned - 11/26/2014 1:26 PM & 1:35 PM	Mike Day	Provided 2012 and 2014 operations data via email.
HDO	HONDO MUNI	Chuck Friesenhann	(830) 426-3810 x 107		Janet Mangum	Call - 11/26/2014 12:00 PM	Chuck Friesenhann	Left voicemail.
HDO	HONDO MUNI	Robert Lee	(830) 426-3810		Janet Mangum	Call - 1/30/2015 11:34 AM	Robert Lee	Friesenhann no longer at HDO. Left message for Robert Lee.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HDO	HONDO MUNI	Robert Lee	(830) 426-3810	rlee@hondo-tx.org	Janet Mangum	Email - 1/30/2015 12:51 PM	Robert Lee	Sent email. Has been at Hondo since December. Friesenhann left 6/2014. No one has been monitoring. Hondo is a public use airfield with about 40 base customers but minimal traffic recently. He could possibly give info based on fuel sales. He's also willing to call Friesenhann to ask about early 2014 info.
HPY	BAYTOWN		281-421-1671		Janet Mangum	Call - 11/26/2014 12:02 PM	Operator	Indicated that HPY is a private airport that does not track operations data.
HQZ	Mesquite Metro	Cynthia Godfrey, Operations Manager	972-216-4130, option 2		Janet Mangum	Call - 11/26/2014 12:07 PM	Cynthia Godfrey	Left voicemail.
HQZ	Mesquite Metro	Cynthia Godfrey, Operations Manager	972-216-4130, option 2		Janet Mangum	Call returned - 12/2/2014 1:42 PM	Cynthia Godfrey	Submitted February 2014 - November 2014 data (61,292).
HQZ	Mesquite Metro	Cynthia Godfrey, Operations Manager	972-216-4130, option 2		Janet Mangum	Call - 2/16/2015 1:40 PM	Cynthia Godfrey	Submitted data are operations.
ILE	SKYLARK FIELD	Gilbert Martinez or Rosemary Harris	254-501-8728		Janet Mangum	Call - 11/26/2014 - 12:15 PM	Operator	Left message.
JWY	Mid-Way Rgnl	Judy Demoney	972-923-0080		Janet Mangum	Call - 11/26/2014 12:21 PM	Judy Demoney	Provided estimates for 2012 and 2014 (2012=43,000; 2014=50,000 (estimates)).
LNC	Lancaster	Mark Divita	(972) 227-5721		Janet Mangum	Call - 11/26/2014 12:25 PM	Mark Divita	LNC does not track operations data.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
MWL	Mineral Wells	Bobby Bateman, Manager	(940) 328-7808		Janet Mangum	Call - 11/26/2014 12:32 PM	Bobby Bateman	MWL does not have a tower and does not track operations data.
NFW	Fort Worth Naval Air Station/ Carswell Field		(817) 782-5000		Janet Mangum	Call - 11/26/2014 12:37 PM		Left voicemail.
O07	WESTHEIMER AIR PARK	Bill Reid/manager	281-341-9641		Janet Mangum	Call - 11/26/2014 12:39 PM	Bill Reid/manager	Invalid phone number.
PVW	HALE COUNTY	Mark Edlin or Gary McCormick	806-293-4121	lineservice@rocket-aviation.com	Janet Mangum	Email - 11/26/2014 12:47 PM	Mark Edlin	Sent email requesting operations data.
RBD	Dallas Executive	Darrell Phillips	(214) 670-7612	darrell.phillips@dallascityhall.com	Janet Mangum	Call - 11/26/2014 12:50 PM	Darrell Phillips	Left voicemail.
RBD	Dallas Executive	Darrell Phillips	(214) 670-7612	darrell.phillips@dallascityhall.com	Jennifer Sellers	Call returned - 12/19/2014	Darrell Phillips	Referred me to the ATADS dataset (https://asPM.faa.gov/opsnet/sys/Airport.asp).
SAT	SAN ANTONIO INTL		210-207-3477 or 210-207- 3540		Janet Mangum	Call - 11/26/2014 12:55 PM		Left voicemail.
SAT	SAN ANTONIO INTL	Mary Wells	210-207-3847	mary.wells@sanantonio.gov	Janet Mangum	Email - 12/1/2014 6:46 PM	Mary Wells	Sent email requesting operations data.
SAT	SAN ANTONIO INTL	Mary Wells	210-207-3847	mary.wells@sanantonio.gov	Janet Mangum	Email returned - 12/9/2014 5:05 PM	Mary Wells	Submitted 2012 and 2014 data via email.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
SAT	SAN ANTONIO INTL	Steven Southers, Environmental Stewardship Manager	210-207-3402	Steven.Southers@sanantonio.gov	Jennifer Sellers	Call - 12/9/2014 2:45 PM	Steven Southers	Requested that TCEQ call him directly.
SAT	SAN ANTONIO INTL	Steven Southers, Environmental Stewardship Manager	210-207-3402	Steven.Southers@sanantonio.gov		12/10/2014	Steven Southers	TCEQ left a voicemail.
SSF	STINSON MUNI		210.207.1800		Janet Mangum	Call - 11/26/2014 12:58 PM		Left voicemail.
T00	CHAMBERS COUNTY		(409) 267-8358		Janet Mangum	Call - 11/26/2014 1:00 PM		Left voicemail.
T00	CHAMBERS COUNTY	Kelly Trahan	(409) 267-8358		Janet Mangum	Call returned - 12/1/2014 9:58 AM	Kelly Trahan	T00 does not have a tower and does not keep track of operations data.
T27	HORIZON		(915) 852-3554		Janet Mangum	Call - 11/26/2014 2:35 PM		Airport closed.
T31	Aero Country		(214) 789-0356		Janet Mangum	Call - 11/26/2014 2:40 PM		T31 does not have a tower and does not keep track of operations data.
T51	DAN JONES INTL	Daniel Jones	936-521-9887		Janet Mangum	Call - 11/26/2014 2:43 PM	Daniel Jones	T51 is a private airport and does not keep track of operations data.
T57	Garland/Dfw Heloplex	Connie Pyatt	(214) 349-7000		Janet Mangum	Call - 11/26/2014 2:45 PM	Connie Pyatt	T57 does not have a tower and does not keep track of operations data.
T65	MID VALLEY		(956) 969-0291		Janet Mangum	Call - 11/26/2014 2:47 PM		T65 does not have a tower and does not keep track of operations data.
T67	Hicks Airfield		(817) 296-0189		Janet Mangum	Call - 11/26/2014 2:49 PM		Left voicemail.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
T78	LIBERTY MUNI	Jose Doblado	936-587-4150 or 281-630-0779 (cell)	jdoblado@cityoflibertY.org	Janet Mangum	Email - 11/26/2014 2:59 PM	Jose Doblado	Sent email requesting operations data.
T79	SKYWAY MANOR	Richard Wells/manager	281-485-4755		Janet Mangum	Call - 11/26/2014 3:05 PM	Richard Wells/manager	No answer.
T90	CHAMBERS COUNTY-WINNIE STOWELL		409-267-2719		Janet Mangum	Call - 11/26/2014 3:07 PM		Left voicemail.
TDW	TRADEWIND		806-376-1008		Janet Mangum	Call - 11/26/2014 3:09 PM		TDW is not a controlled airspace, and does not track operations data.
TKI	Collin County Regional At Mc Kinney	Eric Pratt/Operations Manager	972-562-4096	epratt@flytki.com	Janet Mangum	Email - 11/26/2014 2:15 PM	Eric Pratt	Sent email requesting operations data.
TKI	Collin County Regional At Mc Kinney	Eric Pratt/Operations Manager	972-562-4096	epratt@flytki.com		Email returned - 12/1/2014 11:25 AM	Eric Pratt	Submitted operations data for the past 3 years (2012 = 83,374 ops, 2013 = 88,605 ops, 2014 = 97,630 ops).
TME	Houston Executive	Fred Purgahn/Operations Manager	(281) 945-5000		Janet Mangum	Call - 11/26/2014 3:17 PM	Fred Purgahn/Operations Manager	Left voicemail.
TRL	Terrell Muni	Melissa Harding	972.524.1601		Janet Mangum	Call - 11/26/2014 3:19 PM	Melissa Harding	Left voicemail.
TS07	Dry Creek		287-373-1098		Janet Mangum	Call - 11/26/2014 3:00 PM		No answer.
WEA	Parker County	Porter Crawford/manager	817-599-9210		Janet Mangum	Call - 11/26/2014 3:00 PM	Porter Crawford/manager	Left voicemail.
3XS0	Hartlee Field	Mike Clark/manager	817-565-8421		Janet Mangum	Call - 12/10/2014 9:30 AM		No answer.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
9F9	Sycamore Strip	Ryan Gyure/Airport Manager	817-293-0510		Janet Mangum	Call - 12/10/2014 9:34 AM	Ryan Gyure/Airport Manager	Left voicemail.
25XS	O'brien Airpark	Phillip O'Brien/manager	972-617-8147		Janet Mangum	Call - 12/10/2014 9:37 AM		Invalid phone number.
2TE2	Flying Oaks	Melissa Cook/Owner and manager	817-602-6427		Janet Mangum	Call - 12/10/2014 9:55 AM	Melissa Cook	Indicated that 2TE2 is a small, private airport, possibly 2-3 per week.
4T2	Kenneth Copeland	Paul Bridges/manager	817-252-3501		Janet Mangum	Call - 12/10/2014 9:45 AM	Paul Bridges	Indicated 4T2 is a private airport, and does not track operations data. Several federal agencies use it for helicopter training.
01TE	Smith Field	James Smith/owner and manager	214-222-8338		Janet Mangum	Call - 12/10/2014 9:47 AM		Invalid phone number.
T58	Ironhead	Ben and Thomas Huston/Owners and managers	940-458-7348		Janet Mangum	Call - 12/10/2014 9:48 AM	Ben and Thomas Huston/Owners and managers	Left voicemail.
0T7	Kittyhawk	Jack Winthrop	972-727-5649		Janet Mangum	Call - 12/10/2014 9:49 AM		Invalid phone number.
16X	Propwash	Tom Silva/Airport Manager	940 648-0862		Janet Mangum	Call - 12/10/2014 11:58 AM	Tom Silva/Airport Manager	Estimated approximately 2,500/year.
16X	Propwash	Tom Silva/Airport Manager	940 648-0862		Janet Mangum	Call - 2/16/2015 2:02 PM	Tom Silva/Airport Manager	Called to clarify if data submitted were LTOs or operations.
16X	Propwash	Tom Silva/Airport Manager	940 648-0862		Janet Mangum	Call returned - 2/16/2015 2:10 PM	Tom Silva/Airport Manager	Left message that data submitted were touch and gos (TGOs).
16X	Propwash	Tom Silva/Airport Manager	940 648-0862		James Chesnut	Call - 2/25/2015 4:45 PM	Tom Silva/Airport Manager	Mostly fly Cessna 152s, some Van's RV7s, some Mooneys

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
81D	Flyin Tiger	Bruce Bohannon/owner and manager	281-369-0371		Janet Mangum	Call - 12/10/2014 9:56 AM		Invalid phone number.
19TE	Cut And Shoot	Travis Schank/manager	409-264-2713		Janet Mangum	Call - 12/10/2014 9:56 AM		Invalid phone number.
35TS	Hempstead	J M Josey/manager	713-826-3355		Janet Mangum	Call - 12/10/2014 9:57 AM		Invalid phone number.
2TE0	Eagle Air Park	Joseph Ware/manager	979-798-7189		Janet Mangum	Call - 12/10/2014 9:59 AM	Joseph Ware/manager	Left voicemail.
7R9	BAILES	Danny Still/manager	979-549-6848		Janet Mangum	Call - 12/10/2014 10:20 AM	Danny Still	7R9 is a grass strip, and activity depends on the season (summer 30-40/week; winter 5/week).
7R9	BAILES	Danny Still/manager	979-549-6848		Janet Mangum	Call - 2/16/2015 1:46 PM	Danny Still	Submitted data are operations.
27XS	SPORT FLYERS	W. R. McKissack/manager	713-391-6072		Janet Mangum	Call - 12/10/2014 10:23 AM	W. R. McKissack/manager	Left voicemail.
X09	COVEY TRAILS	Gary Cole/manager	713-824-2204		Janet Mangum	Call - 12/10/2014 10:34 AM	Gary Cole/manager	X09 is an aviation community/neighborhood, maybe 5/week.
X09	COVEY TRAILS	Gary Cole/manager	713-824-2204		Janet Mangum	Call - 2/16/2015 1:49 PM	Gary Cole/manager	Data submitted are LTOs.
8TX7	SKYHAVEN	Paul Krebs	713-456-9298		Janet Mangum	Call - 12/10/2014 10:27 AM		Invalid phone number.
7XS0	POLLY RANCH	Polly Ranch Home Owners Association	713-482-6430		Janet Mangum	Call - 12/10/2014 10:29 AM		Invalid phone number.
9X9	SACK-O-GRANDE ACROPORT	Troy Maxwell/manager	281-398-8118		Janet Mangum	Call - 12/10/2014 10:30 AM		Airport closed.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
06TX	DIAMOND N RANCH	K R Matthews/manager	281-351-1525		Janet Mangum	Call - 12/10/2014 10:31 AM		No answer.
9TA3	ROGERS	David Rogers/Owner and Manager	713-328-5437		Janet Mangum	Call - 12/10/2014 10:36 AM		Invalid phone number.
46TS	Lavon North		214-241-8132		Janet Mangum	Call - 12/10/2014 10:37 AM		Invalid phone number.
F78	Horseshoe Bend	Sandy Sanders/manager	817-594-6454	myershsb@aol.com	Janet Mangum	Email - 12/10/2014 10:47 AM	Mary Vermillion	Sent email requesting operations data
45TE	Deussen Field	Alexander Deussen II/owner and manager	817-479-2230		Janet Mangum	Call - 12/10/2014 10:58 AM	Alexander Deussen II/owner and manager	Left voicemail.
47TA	Pleasure Field	O. K. Kim/manager	214-596-8920		Janet Mangum	Call - 12/10/2014 12:29 AM		Invalid phone number.
T80	Bishop's Landing	Bobby Bishop/owner and manager	972-382-4402		Janet Mangum	Call - 12/10/2014 11:00 AM		Invalid phone number.
49T	Dallas Cbd Vertiport	Lana Furra/manager	214-670-7612	dakota.shaw@dallascityhall.com	Janet Mangum	Email - 12/10/2014 11:08 AM	Dakota Shaw	Sent email requesting operations data.
5TA9	Seagoville	George A. Tunnel III/Owner and manager	972-287-1375		Janet Mangum	Call - 12/10/2014 12:07 AM	George A. Tunnel III/Owner and manager	Left voicemail.
5TA9	Seagoville	George A. Tunnel III/Owner and manager	972-287-1375		Janet Mangum	Call returned - 12/16/2014 12:55 PM	George A. Tunnel III/Owner and manager	Indicated that 5TA9 is a private airstrip that does not track LTOs.
TE70	Huber Airpark Civic Club Llc	Henry Coffeen/manager	830-303-6254		Janet Mangum	Call - 12/10/2014 11:17 AM	Henry Coffeen/manager	Airport was sold.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
T13	Dallas South Port	Von Hulgan/manager	972-842-8798		Janet Mangum	Call - 12/10/2014 12:13 PM		No answer.
T87	Flying C	Casey Carter/owner and manager	940-458-5628		Janet Mangum	Call - 12/10/2014 12:15 PM	Casey Carter/owner and manager	Left voicemail.
E58	Bird Dog Airfield	Scott Sackett/manager	940-482-7985		Janet Mangum	Call - 12/10/2014 12:16 PM		No answer.
TA19	Post Oak Airfield	John G. Good/owner and manager	214-606-0378		Janet Mangum	Call - 12/10/2014 12:17 PM		Mailbox full.
6X8	Vultures Row	Richard and Janice Freeman/owner and manager	940-453-8126		Janet Mangum	Call - 12/10/2014 12:18 PM		No answer.
58F	Lane Fld	Eddie Lane/owner and manager	940-391-3615		Janet Mangum	Call - 12/10/2014 12:20 PM	Eddie Lane/owner and manager	Left voicemail.
34TE	Bee Creek	M. L. Tanner	214-435-4764		Janet Mangum	Call - 12/10/2014 12:23 PM		Invalid phone number.
11TE	Flying M Ranch	W. D. Moyer/owner and manager	817-866-3696		Janet Mangum	Call - 12/10/2014 12:24 PM		Invalid phone number.
1XS1	Dunham Field	Terry D. Dunham/manager	832-524-0383		Janet Mangum	Call - 12/10/2014 12:26 PM	Terry D. Dunham/manager	Left voicemail.
59TE	Hoffpauir	Stanley C. Hoffpauir/owner and manager	713-492-8122		Janet Mangum	Call - 12/10/2014 12:28 PM		Invalid phone number.
49TA	Roeder	Stephen Roeder/owner and manager	713-328-6213		Janet Mangum	Call - 12/10/2014 12:30 PM		Unable to leave message
25TA	Ferris	J P Ferris/owner and manager	281-427-7345		Janet Mangum	Call - 12/10/2014 12:39 PM		Indicated that 25TA is a small airport that does not track operations data.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								Estimated 10/week.
1TE2	Flying F Ranch	Wally Frey/manager	281-452-7019		Janet Mangum	Call - 12/10/2014 12:48 PM		No answer.
7TA0	Field's Field	Stella Field/manager	713-351-0108		Janet Mangum	Call - 12/10/2014 12:50 PM	Stella Field/manager	Left voicemail.
TS95	Aviasud Airpark	Anita De Villegas/manager	713-342-1907		Janet Mangum	Call - 12/10/2014 12:51 PM		Invalid phone number.
5T0	Ward Airpark	Ann Ward/owner and manager	979-387-2277		Janet Mangum	Call - 12/10/2014 12:52 PM		No answer.
93XS	Joseph Ross Scherdin	Jimmie Scherdin/owner and manager	713-297-7260		Janet Mangum	Call - 12/10/2014 12:55 PM		Mailbox full.
39R	Flyin' B	David Parker/manager	713-443-1850		Janet Mangum	Call - 12/10/2014 12:56 PM		Estimated activities at approximately 30/year. Used by local police.
39R	Flyin' B	David Parker/manager	713-443-1850		Janet Mangum	Call - 2/16/2015 1:52 PM	David Parker	Updated activity reports to approximately 50 touch and gos (TGOs) per year.
39R	Flyin' B	David Parker/manager	713-443-1850		James Chesnut	Call - 2/25/2015 3:05 PM	David Parker	They fly exclusively helicopters, Robinson R22s or R44s
62TS	Gateway Helistop	Laura Weaver/manager	713-987-0171		Janet Mangum	Call - 12/10/2014 12:58 PM		No answer.
55TA	Montgomery County Medical Center Hospital	John Single/manager	409-539-7080		Janet Mangum	Call - 12/10/2014 1:00 PM	John Single/manager	Left voicemail.
56XS	G H Hart Nr 2	GH Hart/owner and manager	713-933-7000		Janet Mangum	Call - 12/10/2014 1:01 PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
6TA6	B & S Warehouse	Arnold Miller/manager	713-977-4444		Janet Mangum	Call - 12/10/2014 1:04 PM		No longer has an airstrip.
7XS8	Lift Crane	Sherman Chisom/manager	713-721-0700		Janet Mangum	Call - 12/10/2014 1:05 PM		Invalid phone number.
7XS4	Durwood Greene Construction Company		281-499-1551		Janet Mangum	Call - 12/10/2014 1:06 PM		Left voicemail.
7TX6	Kemah Waterfront	Tracy Vincent/manager	713-515-1456		James Chesnut	Call - 12/5/2014 12:42 PM		No answer.
7TS6	Strack Farms	Betty Mielsch/manager	713-376-0901		Janet Mangum	Call 12/10/2014 1:08 PM		Invalid phone number.
7TA2	Club House Nr 1	Jonathan Shear/manager	713-485-4323		Janet Mangum	Call - 12/10/2014 1:09 PM		Invalid phone number.
76TS	Golden Pegasus Ranch	William A Uhlemeyer/owner and manager	409-925-8913		Janet Mangum	Call - 12/10/2014 1:10 PM		Airport closed.
72TX	Johnson Space Center	Ronald Bailey/manager	281-483-3196		Janet Mangum	Call - 12/10/2014 1:11 PM	Ronald Bailey/manager	Left voicemail.
6XS6	Uscg Port Safety Station	Capt. Waggett/manager	713-672-6639		Janet Mangum	Call - 12/10/2014 1:13 PM		No answer.
5TX3	Hl&P South Houston Helistop	R. L. Moore/manager	713-623-7119		Janet Mangum	Call - 12/10/2014 1:14 PM		Invalid phone number.
6XS0	Rwave	Ronnie Michael/owner and manager	713-723-0202		Janet Mangum	Call - 12/10/2014 1:15 PM		Invalid phone number.
59TA	Kaneb	G. E. Bridges/manager	713-643-3966		Janet Mangum	Call - 12/10/2014 1:16 PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
68TA	Avsi-Sugar Land	Ed Robinson/manager	713-240-6330		Janet Mangum	Call - 12/10/2014 1:17 PM		No answer.
67TS	Aldine	Billy Estes/owner and manager	713-449-5729		Janet Mangum	Call - 12/10/2014 1:18 PM	Billy Estes/owner and manager	Left voicemail.
66TS	Khou-Tv	Frank Peterman/manager	713-526-1111		Janet Mangum	Call - 12/10/2014 1:19 PM	Frank Peterman/manager	Left voicemail.
66TA	Bradair		485-8999 (area code either 832/713/281)		Janet Mangum	Call - 12/10/2014 1:20 PM		No answer.
64TS	St Luke's Episcopal Hospital	Paul Ramon/manager	832-355-3853		Janet Mangum	Call - 12/10/2014 1:22 PM	Paul Ramon/manager	Left voicemail.
64TA	Galvestonian	James Henderson/manager	409-765-6161		Janet Mangum	Call - 12/10/2014 1:25 PM		Invalid phone number.
63TS	The America Tower	Charles Greene	713-831-2500		Janet Mangum	Call - 12/12/2014 11:33 AM	Charles Greene	Heliport for emergency use only, not an airstrip.
61TS	La Porte Plant	Mark Douglass/manager	281-476-3763		Janet Mangum	Call - 12/12/2014 11:36 AM	Mark Douglass/manager	Left voicemail.
5TS6	Air Logistics - Freeport	Neil Osborne/manager	409-233-7962		Janet Mangum	Call - 12/12/2014 11:38 AM	Neil Osborne/manager	Left voicemail.
6XS1	Northeast Medical Center Hospital	Fred Mery/manager	713-540-7700		Janet Mangum	Call - 12/12/2014 11:40 AM	Fred Mery/manager	Left voicemail.
1TA3	D W C	David Wight/owner and manager	713-331-1584		Janet Mangum	Call - 12/12/2014 11:42 AM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
2TE1	Republic Helicopters	Kjirstin Larson/manager	409-927-8111	OFIRASEK@REPUBLICHELICOPTERS.COM	Janet Mangum	Call - 12/12/2014 11:46 AM	Kjirstin Larson/manager	Agreed to email data.
2TE1	Republic Helicopters	Kjirstin Larson/manager	409-927-8111	kdupont@republichelicopters.com	Janet Mangum	Email returned - 2/17/2015 12:49 PM	Kjirstin Larson/manager	Provided 2012 and 2014 LTO data in HSAC documentation.
2TE1	Republic Helicopters	Kjirstin Larson/manager	409-927-8111	kdupont@republichelicopters.com	Janet Mangum	Email returned - 2/19/20015 2:08 PM	Kjirstin Larson/manager	Single Engine data is Bell 206 B's, and Twin engine data is Bell 230's.
2TA0	Darmar Medical Emergency	E. F. Bartsch/manager	713-391-3185		Janet Mangum	Call - 12/12/2014 12:10 AM		Invalid phone number.
29TS	West Houston Medical Center	Janie Kauffman/manager	713-558-3444		Janet Mangum	Call - 12/12/2014 12:10 AM		Invalid phone number.
27TX	Charter Bank Building		713-783-7832		Janet Mangum	Call - 12/12/2014 12:11 AM		Left voicemail.
26TS	Memorial Hospital-The Woodlands	Frederick Don Willie/manager	713-364-2300		Janet Mangum	Call - 12/12/2014 12:12 AM		Invalid phone number.
26TE	Parkview Center Hospital	Marilyn Phillips/manager	713-691-0161		Janet Mangum	Call - 12/12/2014 12:13 AM		Invalid phone number.
26TA	Red Barn	John Pittman/manager	713-479-3435		Janet Mangum	Call - 12/12/2014 12:14 AM		Invalid phone number.
24TE	Police Helicopter Patrol	J. M. King/manager	713-641-0281		James Chesnut	Call - 12/5/2014 10:12AM		Invalid phone number.
22XA	General Plumbing Contractors	Terry Randall/manager	281-820-4747		Janet Mangum	Call - 12/12/2014 12:15 AM		No airstrip.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
21TS	Baycoast Medical Center	Louis Fadal/manager	713-420-6400		Janet Mangum	Call - 12/12/2014 12:16 AM		Invalid phone number.
21TA	Cypress Fairbanks Medical Center	Terry Wheeler/manager	713-897-3100		Janet Mangum	Call - 12/12/2014 12:17 AM		No answer.
1XA9	Life Flight North Fuel	Eric Von Wenckstern/manager	713-704-2788		Janet Mangum	Call - 12/12/2014 1:19:00 PM	Eric Von Wenckstern/ manager	Left voicemail.
4TS0	First City Financial Center	Bruce C. Edwards/manager	713-658-7044		Janet Mangum	Call - 12/12/2014 12:23 AM		Invalid phone number.
1TA9	Ktrk Tv Station	Richard Longoria/manager	713-666-0714		Janet Mangum	Call - 12/12/2014 12:24 AM		Invalid phone number.
31TE	Tenneco Lab Helistop	P. E. Gray/manager	713-757-8104		Janet Mangum	Call - 12/12/2014 12:25 AM		Invalid phone number.
1TA0	Fina Bayport	D. Bailey/manager	713-474-6000		Janet Mangum	Call - 12/12/2014 12:25 AM		Invalid phone number.
12TA	Channel Two	Ryan McDonald/manager	713-222-2222		Janet Mangum	Call - 12/12/2014 12:28 AM	Ryan McDonald/manager	Left voicemail.
11TA	Conoco	Jess Mcnown/manager	713-443-5018		Janet Mangum	Call - 12/12/2014 12:30 AM	Rubin Alizondo	Left message for Jess Mcnown.
10TA	Bear Creek	Steve Harker/manager	713-859-8188		Janet Mangum	Call - 12/12/2014 12:31 AM		No response.
0XA3	Midstream Freeport	Bob Winget/manager	979-233-0176		James Chesnut	Call - 12/3/2014 3:30 PM	Bob Winget	Helipad for emergency use only. No LTO data.
0TS6	Harris County Courthouse	Gray Stansell/manager	713-463-6300		James Chesnut	Call - 12/3/2014 3:40PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
0TS3	Houston	Edith Johnson/owner	713-681-5122		James Chesnut	Call - 12/3/2014 3:45PM		Invalid phone number.
0TA9	Houston Oil & Minerals Port Bolivar Nr 2	D G Nassar/manager	713-951-4700		James Chesnut	Call - 12/3/2014 3:50PM		Invalid phone number.
0TA5	Metro Heli-Pad	H. M. Lingle/manager	713-734-3090		James Chesnut	Call - 12/3/2014 3:55PM		Helipad unknown.
0TA0	Mainland Rgnl Health Care System	Steve Brown/manager	409-938-5000		James Chesnut	Call - 12/3/2014 4:05PM	couldn't catch name	Left voicemail.
0TA0	Mainland Rgnl Health Care System	Steve Brown/manager	409-938-5000		James Chesnut	Call - 12/3/2014 4:10PM		0TA0 do not record LTO data, estimated 30/year, but likely an over estimate.
04TE	Veterans Affairs Medical Center	Robert Scott/manager and hospital director	713-794-7100		James Chesnut	Call - 12/3/2014 4:30PM		Invalid phone number.
03TX	M D K Field	Michael Knuckey/owner and manager	713-253-8276		James Chesnut	Call - 12/3/2014 4:35PM		Does not record operations data.
1TS5	Sugar Grove	Karen Lake/manager	713-240-7760		James Chesnut	Call - 12/3/2014 - 4:40PM		Invalid phone number.
40TX	Tgp 25	John Tatum/manager	281-765-4827		James Chesnut	12/3/2014 - 4:45PM		No answer.
52TX	Hercules Marine Services Corp		409-233-6371		James Chesnut	12/3/2014 - 4:50PM		Invalid phone number.
4XS3	Columbia Lakes	Jim Mahon/manager	409-345-5151		James Chesnut	12/3/2014 - 4:55PM		Invalid phone number.
4TS6	State Police	Sharon Cooper/manager	713-957-6103		James Chesnut	12/32014 - 4:57PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
4TS4	Palm Petroleum Corporation	Jack Peoples/manager	281-443-3328		James Chesnut	12/3/2014 - 4:59PM		Invalid phone number.
4TS2	Wilshire Place	Wes Wieder/manager	713-744-4670		James Chesnut	12/3/2014 - 5:01PM		Invalid phone number.
4TS1	Pin Oak Stables	Jim Robinson/manager	713-645-0524		James Chesnut	12/32014 - 5:06PM		Invalid phone number.
80TA	Porta-Kamp 12th Street	William Strecker Jr./manager	713-674-3763		James Chesnut	12/3/2014 - 5:10PM		Invalid phone number.
4TA9	Swinging Door	Steve Onstad/manager	713-342-4758		James Chesnut	12/3/2014 - 5:12PM		Invalid phone number.
45TA	Spl	Christopher Brown/manager	713-660-0901		James Chesnut	12/3/2014 - 5:16PM	Christopher Brown	Left voicemail.
45TA	Spl	Christopher Brown/manager	713-660-0901		James Chesnut	Call returned - 12/4/2014 10:23 AM	Christopher Brown	Airport closed.
44XS	Prudential	Arthur A. Geary/manager	201-077-7256		James Chesnut	Call - 12/3/2014 5:18PM		Invalid phone number.
43XS	Tdcj/Southern Rgnl Medical Facility	R. C. Thaler/manager	936-437-2170		James Chesnut	Call - 12/3/2014 5:23PM		No longer the medical facility. No contact information.
43TE	Police Headquarters	J. M. King/manager	713-641-0281		James Chesnut	Call - 12/5/2014 10:12AM		Invalid phone number.
2TX9	Ethyl Corp	Duard Franklin/manager	713-740-1121		James Chesnut	Call - 12/5/2014 10:20AM	Duard Franklin/manager	Left voicemail.
42TA	Rental Tools	H. Carlos Smith/manager	713-471-4226		James Chesnut	Call - 12/5/2014 10:27AM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
2XA3	North Cypress Medical Center	Bill Simmons/owner and manager	713-466-3423		James Chesnut	Call - 12/5/2014 10:36AM		Invalid phone number.
3XA5	Christus St. John Hospital	Joe Parker/manager	281-333-5503		James Chesnut	Call - 12/5/2104 10:55AM	David Milton	Left voicemail.
3TS8	Dailey Inc	Steve Johnson/manager	409-539-5699		James Chesnut	Call - 12/5/2014 11:05AM	Steve Johnson/manager	Left voicemail.
3TS6	Lawrence Administrative Services Inc	Steve Johnson/ manager	713-350-3399		James Chesnut	Call - 12/5/2014 11:15AM		Invalid phone number.
3TS4	Intermedics	Jerry Cannon/manager	409-849-2371		James Chesnut	Call - 12/5/2014 11:30AM		Invalid phone number.
3TE2	Texas Commerce Bank Building	Scott Dennis/manager	713-236-5536		James Chesnut	Call - 12/5/2014 11:36 AM		Invalid phone number.
39TS	Hearthstone	Bill Mehaffey/manager	713-955-9700		James Chesnut	Call - 12/5/2014 11:39AM		Invalid phone number.
38TX	Lyndon B Johnson General Hospital	Alexander Brailas/manager	713-746-5590		James Chesnut	Call - 12/5/2014 11:42AM		Invalid phone number.
38TS	Steeplechase	Bill Mehaffey/manager	713-955-9700		James Chesnut	Call - 12/5/2014 11:39AM		Invalid phone number.
38TA	Kurio	B. R. Kurio/manager	713-461-1521		James Chesnut	Call - 12/5/2014 11:46AM		No answer.
36TE	Nw Police Station Nr 5	J. M. King/manager	713-641-0281		James Chesnut	Call - 12/5/2014 10:12AM		Invalid phone number.
35TE	Ne Police Station Nr 2	J. M. King/manager	713-641-0281		James Chesnut	Call - 12/5/2014 10:12AM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
33TE	Sw Police Station Nr 4	J. M. King/manager	713-641-0281		James Chesnut	Call - 12/5/2014 10:12AM		Invalid phone number.
52XS	Clear Lake Rgnl Medical Center	Richard Unger/manager	281-338-3765		James Chesnut	Call - 12/5/2014 11:55AM	Richard Unger	Left voicemail.
42TS	Papa	Ed Martindale/manager	713-443-6350		James Chesnut	Call - 12/5/2014 11:59AM		Invalid phone number.
TA92	Rowan	William Shirley/manager	713-991-6300		James Chesnut	Call - 12/5/2014 12:03PM		Invalid phone number.
81XS	Post Oak Central	P M Realty/manager	713-871-0580		James Chesnut	Call - 12/5/2014 12:10PM		Invalid phone number.
TE41	Montgomery Co Law Enforcement Cntr	Guy Williams/manager	409-760-5872		James Chesnut	Call - 12/5/2014 12:15PM		Invalid phone number.
TX28	Dewberry	E. F. Bartsch/manager	713-391-3185		James Chesnut	Call - 12/5/2014 12:18PM		Invalid phone number.
TE28	Shell Deer Park Refinery	D. P. De Woody/manager	713-241-7667		James Chesnut	Call - 12/5/2014 12:20PM		Invalid phone number.
TE11	Life Flight/Refuel	Eric Von Wenckstern/manager	713-797-2788		James Chesnut	Call - 12/5/2014 12:29PM	Eric Von Wenckstern/ manager	Left voicemail.
TX86	Methodist Hospital Alkek	Kim Van Ackeren/manager	713-441-2190		James Chesnut	Call - 12/5/2014 12:38PM	Kim Van Ackeren/manager	Left voicemail.
TA98	Chevron Chemical Co	L. A. Luchessi/manager	713-421-6200		James Chesnut	Call - 12/5/2014 12:40PM		Invalid phone number.
XA13	Landry's Seafood House	Tracy Vincent/manager	713-515-1485		James Chesnut	Call - 12/5/2014 12:42PM		No answer.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
XA73	Midstream Galveston Helipad Area Nr 1	Bob Winget/manager	409-744-7126		James Chesnut	Call - 12/3/2014 3:30PM	Bob Winget	Helipad for emergency use only. No LTO data.
TA95	Houston Northwest Medical Center	J. Barry Shevehuk/manager	713-440-1000		James Chesnut	Call - 12/5/2014 12:47PM		Invalid phone number.
TS99	Action Nr 2	Tom McGuffy/manager	713-255-6955		James Chesnut	Call - 12/5/2014 12:50PM		Invalid phone number.
TA74	Amoco	Brian Dinsmoor/manager	713-581-3100		James Chesnut	Call - 12/5/2014 12:51PM		Invalid phone number.
XA19	Drv Downtown Houston Aquarium	Tracy Vincent/manager	713-515-1485		James Chesnut	Call - 12/5/2014 12:42PM		No answer.
TA62	Emergency-1 Houston Center	James Wilson/manager	713-654-1911		James Chesnut	Call - 12/5/2014 12:53PM		Invalid phone number.
TA45	Eckels	Bob Eckels/manager	409-885-4564		James Chesnut	Call - 12/5/2014 12:54PM		Invalid phone number.
TS77	Horlock	Glen Daniels/manager	713-666-3626		James Chesnut	Call - 12/5/2014 12:55PM		Invalid phone number.
XA20	Landry's Warehouse	Tracy Vincent/manager	713-515-1485		James Chesnut	Call - 12/5/2014 12:42PM		No answer.
TE44	My	Harry Holloway/owner and manager	409-258-3917		James Chesnut	Call - 12/5/2014 1:45PM		Invalid phone number.
TA20	San Jacinto Methodist Hospital	Rod Seidel/manager	713-420-8765		James Chesnut	Call - 12/5/2014 1:48PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
XA67	Christus St Joseph Hospital	Ray Higgins/manager	713-757-1000		James Chesnut	Call - 12/5/2014 1:54PM		Helipad unknown.
TA96	Helicopter Express	Ron Bowden/owner and manager	281-370-0780		James Chesnut	Call - 12/5/2014 12:57PM	Ron Bowden/owner and manager	Left voicemail.
TS26	The Huntingdon	Adelene Engelbrecht/manager	713-528-7300		James Chesnut	Call - 12/5/2014 2:00PM		Helipad inactive.
TS52	Tomball Rgnl Hospital	James Hall/manager	281-351-3601		James Chesnut	Call - 12/5/2014 2:10PM		Invalid phone number.
TS81	Town & Country		713-230-1254		James Chesnut	Call - 12/5/2014 2:14PM		Invalid phone number.
TS82	Gulf Tower	C. R. Farris/manager	713-754-2903		James Chesnut	Call - 12/5/2014 2:17PM		Invalid phone number.
TS45	Gulfcoast	Edward Acuna, Sr./manager	713-485-7345		James Chesnut	Call - 12/5/2014 2:19PM		Invalid phone number.
TS83	Shell I C	B. R. Schulte/manager	713-245-1112		James Chesnut	Call - 12/5/2014 2:21PM		Invalid phone number.
TS38	Helitrans	Gene Allen/manager	713-431-0531		James Chesnut	Call - 12/5/2014 2:26PM		Invalid phone number.
TS86	Community Hospital	Marsha Powers/manager	713-499-4800		James Chesnut	Call - 12/5/2014 2:32PM		Invalid phone number.
TS37	Harris County Clay Road Courthouse	Gray Stansell/manager	713-463-6300		James Chesnut	Call - 12/3/2014 3:40PM		Invalid phone number.
TS34	Woodcreek-Shell	D L Longwell/manager	713-544-3720		James Chesnut	Call - 12/5/2014 2:45PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
7XS9	Pearce Industries	A. Y. Scarborough/manager	713-723-1050		James Chesnut	Call - 12/5/2014 2:55PM	A. Y. Scarborough /manager	Left voicemail.
TS31	Transco Tower Garage	Gary Johnson/manager	713-850-8841		James Chesnut	Call - 12/5/2014 3:00PM		Indicated that ownership does not allow information to be distributed.
TE49	H.S.I.	Mr. Robin Simpson/manager	281-370-4354		James Chesnut	Call - 12/5/2014 3:05PM		Invalid phone number.
TS24	Westchase	Frank Putman/owner and manager	713-266-1899		James Chesnut	Call - 12/5/2014 3:09PM		Invalid phone number.
TS19	Gws Inc Construction		713-799-9366		James Chesnut	Call - 12/5/20143:11PM		No answer.
TS17	First Bank Plaza Garage							No contact information found.
TS16	Lewis Electric Apparatus Repair Inc	Tom Lewis/manager	713-658-7009		James Chesnut	Call - 12/5/2014 3:15PM		Invalid phone number.
TS88	Memorial Hospital	Dennis Knox/manager	713-475-5805		James Chesnut	Call - 12/5/2014 3:17PM		Invalid phone number.
TS93	Brown & Root-Clinton	Michael Turner/manager	713-676-3841		James Chesnut	Call - 12/5/2014 3:21PM		Invalid phone number.
TE69	Polly Ryon Memorial Hospital		281-341-3000		James Chesnut	Call - 12/5/2014 3:24PM		Helipad unknown.
TE53	Spring Branch Memorial Hospital	Mary Jo Goodman/manager	713-467-6555		James Chesnut	Call - 12/5/2014 3:26PM		Invalid phone number.
XA38	Mickler	Jeff Mickler/owner and manager	281-482-6865 or 281-481-6865		James Chesnut	Call - 12/5/2014 3:29PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
TS33	Tex-Star	Dennis Haire/manager	713-861-1991		James Chesnut	Call - 12/5/2014 3:31PM		Invalid phone number.
97TE	Go Helitrans	Randall Vacek/manager	281-431-0531		James Chesnut	Call - 12/5/2014 3:34PM		Invalid phone number.
9TE8	Shell Pelican Island	J E Whitman/manager	504-588-4591		James Chesnut	Call - 12/5/2014 3:36PM		Invalid phone number.
9TE1	M-I Drilling Fluids Company	Hayne Eckhoff/manager	409-233-6542		James Chesnut	Call - 12/5/2014 3:38PM		Invalid phone number.
XS38	3321 Westside	J A Stallings/manager	713-944-5347		James Chesnut	Call - 12/5/2014 3:40PM		No answer.
9TA9	Delta Mechanical Inc	Jerry Winters/owner and manager	713-694-9979		James Chesnut	Call - 12/5/2014 3:41PM		Invalid phone number.
9TA7	U Of Texas Medical Branch Emergency Room		409-772-4355		James Chesnut	Call - 12/5/2014 3:42PM		No information available.
90XS	Houston Oil & Minerals Port Bolivar	Danny Nasser/manager	713-951-4700		James Chesnut	Call - 12/3/2014 3:50PM		Invalid phone number.
8TE9	Mc Gill Ranch	Donald McGill/owner	281-496-2000		James Chesnut	Call - 12/5/2014 3:46PM		Helipad unknown.
XS26	Graco Mechanical Inc	James Graves/owner and manager	713-978-7000		James Chesnut	Call - 12/5/2014 3:49PM		No helipad.
TA14	Lpc	George Arnold/manager	713-452-8888		James Chesnut	Call - 12/5/2014 3:52PM		No answer.
8TS4	Memorial City General	Michael Sullivan/manag	713-932-3000		James Chesnut	Call - 12/5/2014		No contact information.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
	Hospital	er				3:57PM		
8TX4	Sartor	James Sartor/owner and manager	409-856-3090		James Chesnut	Call - 12/5/2014 4:05PM		Invalid phone number.
96XS	Houston Oil & Minerals Smith Point	D G Nasser/manager	713-951-4700		James Chesnut	Call - 12/3/2014 3:50PM		Invalid phone number.
XS37	Police	Lt. P. D. Cobb/manager	713-477-1221		James Chesnut	Call - 12/5/2014 4:15PM		Helipad inactive.
8XS5	San Luis Resort	Paul Schultz/manager	409-744-1500		James Chesnut	Call - 12/5/2014 4:18PM	Kim Schultz	Left voicemail.
9TA6	Buccaneer Shore Facility	Alvin Childs/manager	409-233-8547		James Chesnut	Call - 12/5/2014 4:20PM		Invalid phone number.
9TS7	U Of Texas Medical Branch Ewing Hall	Barbara Bowers/manager	407-747-1237		James Chesnut	Call - 12/5/2014 4:21PM		Invalid phone number.
82TA	Gellhorn Pad	William Bigelow/manager, president	713-674-3163		James Chesnut	Call - 12/5/2014 4:23PM		Invalid phone number.
XA74	Midstream Galveston Helipad Area Nr 2	Bob Winget/manager	409-744-7126		James Chesnut	Call - 12/3/2014 3:30PM	Bob Winget	Helipad for emergency use only. No LTO data.
XA76	Kriv Fox 26 Television	Charles Hughes/manager	713-479-2600		James Chesnut	Call - 12/5/2014 4:35PM	Charles Hughes/manager	Left voicemail.
XA76	Kriv Fox 26 Television	Charles Hughes/manager	713-479-2600		James Chesnut	Call returned - 12/5/2014 6:18PM	Charles Hughes/manager	Helipad for emergency use only. No LTO data.
83XS	Ball Park		713-933-9870		James Chesnut	Call - 12/5/2014 4:40PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
XS16	San Jacinto College Central Campus	Larry Tucker/manager	713-476-1501		James Chesnut	Call - 12/5/2014 4:45PM	Larry Tucker/manager	Left voicemail.
LA50	Mobil	Daryl Deshotel/owner and manager	318-597-0303		James Chesnut	Call - 12/5/2014 4:53PM		Invalid phone number.
9TE9	Dresser Industries/Magcobar/	Donny Grasso/manager	713-488-7161		James Chesnut	Call - 12/5/2014 4:55PM		number no longer in service
9TX0	Houston Police Command Station		713-731-5212		James Chesnut	Call - 12/5/2014 4:57PM		Invalid phone number.
9TS2	Cig 816	W. C. Byerly/manager	713-492-8900		James Chesnut	Call - 12/5/2014 5:00PM		Invalid phone number.
84TA	Allied Northborough	R.J. Forns/manager	713-420-5777		James Chesnut	Call - 12/5/2014 5:04PM		Invalid phone number.
84TS	Tourist Ride Services		904-863-9099		James Chesnut	Call - 12/5/2014 5:10PM		Invalid phone number.
85XS	Marine Consultants Inc	Raleigh Abner/manager	713-921-8181		James Chesnut	Call - 12/5/2014 5:12PM		Invalid phone number.
87TS	Star Houston	Glenn Seureau/manager	713-868-6800		James Chesnut	Call - 12/5/2014 5:17PM		No data collection effort. Used regularly by a couple aircraft (2-3 times a week).
89XS	Joe Rye	Eduardo Acuna/manager	713-485-2644		James Chesnut	Call - 12/5/2014 5:25PM		Invalid phone number.
97TA	Hickory Hollow	Anthony Riedel/owner and manager	713-469-7030		James Chesnut	Call - 12/8/2014 12:45PM		Invalid phone number.
9XS8	Goodson Honda	Rocky McCullough/ma	832-601-4000		James Chesnut	Call - 12/8/2014		Helipad inactive.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
		nager				12:50PM		
21XS	Houston Airpark	Gerald Cavanaugh/manager	281-455-8692		James Chesnut	Call - 12/8/2014 12:58PM	Gerald Cavanaugh	Indicated that there are 6 hangers, and 4-5 aircrafts take off and land a day, no electric systems.
TS35	West Liberty	James Drewry, Jr./manager	281-852-1031		James Chesnut	Call - 12/8/2014 1:05PM		Invalid phone number.
91TS	Songbird Ranch	Neill Northington/manager	281-585-5199		James Chesnut	Call - 12/8/2014 1:09PM	Neill Northington/ manager	Left voicemail.
T54	Lane Airpark	Grant Lane/manager	281-342-5451		James Chesnut	Call - 12/8/2014 1:11PM	Grant Lane/manager	Left voicemail.
07TA	Salaika Aviation	Tim Salaika/owner and manager	409-922-8162		James Chesnut	Call - 12/8/2014 1:15PM		Invalid phone number.
06TE	Ainsworth	John Ainsworth/manager	713-354-5000		James Chesnut	Call - 12/9/2014 11:30AM		Invalid phone number.
XS77	Seafood Warehouse Park	Patrick Rogers/owner and manager	409-684-3553		James Chesnut	Call - 12/9/2014 11:35AM		No longer Seafood Warehouse.
4TA0	Massimiliano Memorial Field	Lester Meyer/owner and manager	409-553-3002		James Chesnut	Call - 12/9/2014 11:40AM		Invalid phone number.
77XS	Garrett Ranch	Bob Garrett/manager	409-922-8623		James Chesnut	Call - 12/9/2014 11:45AM		Invalid phone number.
16XS	Outlaw Flyers	Perry Meier/manager	936-494-9546		James Chesnut	Call - 12/9/2014 11:50AM		No response.
TX66	Rebel Field	Sonny Johnson/manager	409-925-4305		James Chesnut	Call - 12/9/2014 11:53AM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
33TA	Lake Bonanza	Johnnie Smith/manager	936-588-2265		James Chesnut	Call - 12/9/2014 11:55AM		Invalid phone number.
87TE	Rose Field	William Jensen/owner and manager	832-878-6050		James Chesnut	Call - 12/9/2014 11:59AM		Invalid phone number.
TA33	Meyer Field	Lester Meyer/owner and manager	409-553-3002		James Chesnut	Call - 12/9/2014 11:40AM		Invalid phone number.
46TX	Phillips Corporation	Jimmy Phillips, Jr./manager	713-849-6170		James Chesnut	Call - 12/9/2014 12:01PM		Invalid phone number.
XS39	A&A Flying Service	John Alexander/owner	713-482-7718		James Chesnut	Call - 12/9/2014 12:02PM		Invalid phone number.
TS90	Bayless	R H Bayless/owner and manager	713-369-2020		James Chesnut	Call - 12/9/2014 12:07PM		Invalid phone number.
97TS	Gdap Air Ranch	D. T. Hawk/owner and manager	409-856-5005		James Chesnut	Call - 12/9/2014 12:09PM		Invalid phone number.
3TE9	Pinoak	Homer Voungblood/manager	409-258-7720		James Chesnut	Call - 12/9/2014 12:13PM		Invalid phone number.
5TA5	Creasy	William Creasy/owner and manager	409-925-6498		James Chesnut	Call - 12/9/2014 12:17PM	William Creasy/owner and manager	Left voicemail.
1TS3	B & S	Mike Brawner/manager	713-339-1363		James Chesnut	Call - 12/9/2014 12:21PM		Invalid phone number.
XS21	H & S Airfield	Andy Slacalek/manager	409-742-3531		James Chesnut	Call - 12/9/2014 12:23PM		Invalid phone number.
TA97	White Wing Ranch	Carl White/owner and manager	713-667-6452		James Chesnut	Call - 12/9/2014 12:28PM		Indicated that TA91 is a private airstrip, that is not used often (no data and no

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								electric systems).
3TS5	Purdy-Nielsen Memorial Airpark	Philip Petmecky/manager	713-460-9291		James Chesnut	Call - 12/9/2014 12:35PM		Invalid phone number.
15XS	Toy Airpark	John and Sandra Rice/owners and managers	713-331-3174		James Chesnut	Call - 12/9/2014 12:38PM		No answer.
4TX0	Slack	Terrance Slack/owner and manager	713-385-2328		James Chesnut	Call - 12/9/2014 12:44PM	Terrance Slack/owner and manager	Left voicemail.
TE85	Marmack	Jeff Marmack/manager	713-822-4476		James Chesnut	Call - 12/9/2014 12:50PM	Jeff Marmack/manager	Left voicemail.
XS58	Tri-County Air Service	Fred Fatheree/owner and manager	713-336-5074		James Chesnut	Call - 12/9/2014 12:54PM		Invalid phone number.
TS50	Austinia	C Michael Orr/manager	409-948-3461		James Chesnut	Call - 12/9/2014 12:57PM		Invalid phone number.
8TA4	Laseair	Robert Alexander/owner and manager	713-534-2292		James Chesnut	Call - 12/9/2014 1:00PM		Invalid phone number.
TA03	Jo Na Acres	Lyle Jordan or Myrna Nail/managers	281-375-6758		James Chesnut	Call - 12/9/2014 1:05PM		Invalid phone number.
3TS3	J-D Ranch	David Miller/owner	713-485-3291		James Chesnut	Call - 12/9/2014 1:09PM		Invalid phone number.
08XS	Peterson	Roger Peterson/owner and manager	979-647-4946		James Chesnut	Call - 12/9/2014 1:15PM		Indicated that there are not many LTOs.
TE77	Clover Lake Farms	H. A. Petersen/owner and manager	409-848-3028		James Chesnut	Call - 12/9/2014 1:20PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
3TS7	Pavlat	Raymond Pavlat/owner and manager	409-258-3712		James Chesnut	Call - 12/9/2014 1:25PM		Invalid phone number.
TA07	Jet Ag Inc	Joel Smith/owner and manager	409-258-7601		James Chesnut	Call - 12/9/2014 1:27PM		Invalid phone number.
77TX	Woods	J D Woods/owner	713-375-5562		James Chesnut	Call - 12/9/2014 1:34PM		Invalid phone number.
89TA	Soaring Club Of Houston	Tony Sortino/president and manager	713-351-7800		James Chesnut	Call - 12/9/2014 1:37PM		Invalid phone number.
TE88	Bb Airpark	Steve Boyd/manager	713-436-2317		James Chesnut	Call - 12/9/2014 1:42PM		Invalid phone number.
4TA4	Pea Patch	Kenneth Schmetter/owner and manager	409-826-6367		James Chesnut	Call - 12/9/2014 1:45PM		Invalid phone number.
TS44	Dry Branch Ranch	Thomas Warren/owner and manager	713-375-6868		James Chesnut	Call - 12/9/2014 1:53PM		Invalid phone number.
1TS0	Eagle Air	J L Stecgall/owner and manager	713-471-2496		James Chesnut	Call - 12/9/2014 1:57PM		No answer.
1XA4	Mikeska Field	Rheman Halbison/owner and manager	281-391-7600		James Chesnut	Call - 12/9/2014 2:00PM		No answer.
00TX	San Jacinto Methodist Hospital	Donna Gares/manager	281-420-8765		James Chesnut	Call - 12/9/2014 2:05PM		Helipad unknown.
9TS3	Simaron Ranch	Robert Schmid/manager	409-826-8314		James Chesnut	Call - 12/9/2014 2:10PM		Invalid phone number.
94XS	Heritage Ranch	Joe Imparato/owner and manager	713-342-7150		James Chesnut	Call - 12/9/2014 2:12PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
XS25	Flying C Ranch	F. I. Cobb/owner	713-793-6863		James Chesnut	Call - 12/9/2014 2:15PM		Invalid phone number.
5TA7	Kami-Kazi	James Entrekin/owner and manager	409-925-5391		James Chesnut	Call - 12/9/2014 2:17PM		Invalid phone number.
XS72	F R Duke Farm		409-846-0176		James Chesnut	Call - 12/9/2014 2:20PM		Invalid phone number.
XS28	North Willis	J. H. Broussard, Jr./owner and manager	713-253-2459		James Chesnut	Call - 12/9/2014 2:23PM		Invalid phone number.
56TE	Cardiff Brothers	Mark Fisher/owner and manager	417-274-2275		James Chesnut	Call - 12/9/2014 2:26PM	Mark Fisher/owner and manager	Left voicemail.
T95	Bay Electric Supply	Mark Puryear/manag er	281-332-3466		James Chesnut	Call - 12/9/2014 2:30PM		Contact unavailable.
4XS0	Pfeffer & Son Farms	Rick Hahn/manager	409-372-3240		James Chesnut	Call - 12/9/2014 2:32PM		Invalid phone number.
TA30	Old Forker	E. E. Smith/owner and manager	409-952-1162		James Chesnut	Call - 12/9/2014 2:55PM		Invalid phone number.
2H5	Happy Landings	John Hull Jr./owner and manager	713-772-0083		James Chesnut	Call - 12/9/2014 3:05PM		2H5 is a small grass strip that is currently closed. It will be opening again next year. Estimated approximately 50 LTO's per year before this year, no electric systems.
1TS1	Laas Farm	Harvey Laas/owner and manager	281-375-6620		James Chesnut	Call - 12/9/2014 3:11PM		No answer.
TA90	Green Acres	Ranson and Mary Fullinwider/ow	409-931-1311		James Chesnut	Call - 12/9/2014 3:14PM		Invalid phone number.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
		ners and managers						
TE09	Minard Pegasus	Joseph Kessel/owner and manager	281-808-6226		James Chesnut	Call - 12/9/2014 3:18PM	Kessel	TE09 is privately owned and does not allow landings. Zero LTOs.
3XS8	Ken Ada Ranch	W. R. Scofield/manager	713-797-1500		James Chesnut	Call - 12/9/2014 3:22PM		No response.
TX42	Fair Weather Field	Leonard Firth/manager	281-702-3331		James Chesnut	Call - 12/9/2014 3:26PM		Invalid phone number.
21TE	Seaberg Ranch	Curtis Seaberg/owner and manager	713-227-4941		James Chesnut	Call - 12/9/2014 3:30PM		Invalid phone number.
3TE1	Gum Island							No contact information found.
2XA2	Knape	James Knape/owner and manager	979-922-8484		James Chesnut	Call - 12/9/2014 3:33PM		Invalid phone number.
TA28	Woods Nr 2	J. D. Woods/owner	713-375-5562		James Chesnut	Call - 12/9/2014 1:34PM		Invalid phone number.
IAH	Continental Airlines	Jody Cope	281-553-9037	jody.cope@united.com	James Chesnut	Email - 1/7/2015 4:38 PM	Jody Cope	Sent email requesting operations data for Houston Area Airports.
IAH	Continental Airlines	Jody Cope	281-553-9037	jody.cope@united.com	James Chesnut	Email return - 1/9/2015 10:25 AM	Jody Cope	Requested more information about original request.
IAH	Continental Airlines	Jody Cope	281-553-9037	jody.cope@united.com	Roger Chang	Email - 1/9/2015 9:34 AM	Jody Cope	Email sent clarifying original request.
IAH	Continental Airlines	Jody Cope	281-553-9037	jody.cope@united.com	Roger Chang	Email return - 1/23/2015 5:04 PM	Jody Cope	Questions about our preferred data format.
IAH	Continental Airlines	Jody Cope	281-553-9037	jody.cope@united.com	Roger Chang	Email - 1/26/2015	Jody Cope	Clarified data format.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
						11:06 AM		
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green @abilenetx .com	Janet Mangum	Call - 11/19/2014 2:00:00 PM	Don Green	Left voicemail.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green @abilenetx .com	Janet Mangum	Call returned - 11/20/2014 11:00:00 AM	Don Green	Call returned.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green @abilenetx .com	Janet Mangum	Email - 11/24/2014 2:37:00 PM	Don Green	Sent email requesting operations data.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green @abilenetx .com	Janet Mangum	Email returned - 12/3/2014 10:00:00 AM	Don Green	Submitted 2012, 2013, and 2014 operations data; no taxi time data. ABI has some electric gates on the airport, and no electric GSEs.
ABI	Abilene Rgnl	Don Green	325-676-6061	don.green @abilenetx .com	Jennifer Sellers	Emailed - 4/28/2015 12:46 PM	Don Green	Clarified that 50% of the gates are electric.
RKP	Aransas Co	Gene Johnson, Airport Manager	361-790-0141	manager@ krkp.com	Janet Mangum	Call - 11/19/2014 2:09:00 PM	Gene Johnson	Uncontrolled airport. Does not record LTO.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dic k@austinte xas.gov / kane.carpe nter@ci.au stin.tx.us	Janet Mangum	Call - 11/19/2014 2:13:00 PM	Stephen Dick	Left voicemail.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dic k@austinte xas.gov / kane.carpe nter@ci.au stin.tx.us	Janet Mangum	Call returned - 11/24/2014 10:00 AM	Stephen Dick	Call returned.
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dic k@austinte xas.gov /	Janet Mangum	Email - 11/24/2014 11:28 AM	Stephen Dick	Sent email requesting operations data.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
				kane.carpenter@ci.austin.tx.us				
AUS	Austin-Bergstrom Intl	Stephen Dick/ Kane Carpenter	512-530-5541	stephen.dick@austintexas.gov / kane.carpenter@ci.austin.tx.us	Janet Mangum	Email returned - 12/3/2014 9:35 AM	Stephen Dick	Submitted 2013 and 2014 LTOs by aircraft type; no taxi time data.
TPL	Draughon-Miller Central Texas Rgnl	Sharon Rostovich, Airport Manager	254-298-5350		Janet Mangum	Call - 11/19/2014 2:26:00 PM	Sharon Rostovich	Left voicemail.
TPL	Draughon-Miller Central Texas Rgnl	Sharon Rostovich, Airport Manager	254-298-5350		Janet Mangum	Call - 2/3/2015 12:55 PM	Sharon Rostovich	Left voicemail.
GGG	East Texas Rgnl	Roy Miller, Airport Director	903-643-3031	Roy.Miller@co.gregg.tx.us	Janet Mangum	Call - 11/19/2014 2:30:00 PM	Roy Miller	Left voicemail.
GGG	East Texas Rgnl	Roy Miller, Airport Director	903-643-3031	Roy.Miller@co.gregg.tx.us	Janet Mangum	Call - 2/3/2015 12:50 PM	Roy Miller	Left voicemail.
GGG	East Texas Rgnl	Warren Henry	903-643-3031		Janet Mangum	Call returned - 2/5/2014 10:04 AM	Warren Henry	Left voicemail.
GGG	East Texas Rgnl	Warren Henry	903-643-3031		Janet Mangum	Call - 2/9/2015 12:20 AM	Brad Kranzman, Assistant	Provided American Eagle's landings data. (Jan 2012 – 53 landings by ATRs (37 seater); Feb – Dec 2012 – 643 landing by RJs (Embraer 135s); Jan – Dec 2014 – 681 RJs (Embraer 145s)).
CLL	Easterwood Field	John Stuart, Astin Aviation	979-775-5255	jstuart@astin.us	Janet Mangum	Call - 11/19/2014 2:34:00 PM	Tabatha	Updated contact to John Stuart (jstuart@astin.us) from John Happ. Left message for John Stuart.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Call - 11/21/2014--1:45 PM	Monica Vera	Left voicemail.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email - 11/24/2014 12:07:00 PM	Monica Vera	Sent email requesting operations data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email returned - 11/24/2014 5:39 PM	Monica Vera	No operations data or taxi time data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Roger Chang	Email - 11/25/2014 2:19 PM	Monica Vera	Sent email requesting GSE and APU usage data.
ELP	El Paso Intl	Monica Vera	915-212-1843	monica.vera@elpasotexas.gov	Janet Mangum	Email returned - 12/12/2014 12: 58 PM	Monica Vera	Ground power units (GPU) applied to all United Airline aircraft to minimize APU usage on jet way B11. The current GPU used is TLD Green model number GPU-409-E-CUP-28.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Call - 11/21/2014 2:15 PM	Curtis Benkendorfer	Required an email.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Email - 11/21/2014 1:18 PM	Curtis Benkendorfer	Sent email requesting operations data.
GTU	Georgetown Muni	Curtis Benkendorfer, Airport Manager	512-930-3666/ 512-818-0418 (cell)	curtis.benkendorfer@georgetown.org	Janet Mangum	Email returned - 11/26/2014 11:18 AM	Curtis Benkendorfer	Submitted LTO data as annual totals (2012 = 69,236 LTOs; 2014 = 68,775 LTOs), and estimated taxi times (Taxi-in = 5 minutes; Taxi-out = 5 minutes).
LRD	Laredo Intl	Jose Flores, Airport Manager	956-795-2000	jlflores@ci.laredo.tx.us	Janet Mangum	Call - 11/21/2014 2:36 PM	Lucy	Left message for Jose Flores.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
LRD	Laredo Intl	Jose Flores, Airport Manager	956-795-2000	jlflores@ci.laredo.tx.us	Janet Mangum	Call - 1/9/2015 12:20 PM	Guillermo Villalobos	Provided email address (gvillalob2@ci.laredo.tx.us).
LRD	Laredo Intl	Guillermo Villalobos, Operations Manager	956-795-2000	gvillalob2@ci.laredo.tx.us	Janet Mangum	Email - 1/9/2015 12:20 PM	Guillermo Villalobos	Sent email requesting operations data.
LRD	Laredo Intl	Guillermo Villalobos, Operations Manager	956-795-2000	gvillalob2@ci.laredo.tx.us	Janet Mangum	Email returned - 1/13/2015 10:08 AM	Guillermo Villalobos	Submitted 2014 operations data for heavy cargo aircraft. LRD does not keep track of general aviation and scheduled airline commuter aircraft. Estimated RJ-145 with 16 operations 7 days a week, and B757 with 2 operations 6 days per week. Estimated ave
LBB	Lubbock Preston Smith Intl	Kelly Campbell, Airport Manager	806-775-3126 x 3131		Janet Mangum	Call - 11/21/2014 2:40 PM	Kelly Campbell, Airport Manager	Left voicemail.
LBB	Lubbock Preston Smith Intl	Karen Williams	806-775-3127		Janet Mangum	Call - 1/9/2015 11:15 AM	Karen Williams	Left message for Karen Williams.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call - 11/21/2014 2:44 PM	Robbie Ramirez	Left voicemail.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call returned - 11/21/2014	Robbie Ramirez	Indicated that the activity report was on the MFE website (http://www.mcallenairport.com/docs/stats/STATISTICS.pdf). Report includes operations for 2013 and 2014.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Call - 11/21/2014	Robbie Ramirez	Mr. Ramirez verified the website and provided the tower contact information (mfe@rvainc.com). His first name was Perry, but Mr. Ramirez could not remember his last name.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Janet Mangum	Email - 1/9/2015 11:51 AM	Robbie Ramirez	Sent email requesting operations data.
MFE	Mcallen MILLER INTL	Perry		mfe@rvainc.com	Janet Mangum	Email - 1/9/2015 12:10 PM	Perry	Sent email requesting operations data.
MFE	Mcallen MILLER INTL	Robbie Ramirez, Properties & Compliance Manager	956-681-1527	rob_ramirez@mcallen.net	Jennifer Sellers	Email - 2/3/2015 3:07 PM	Robbie Ramirez	Sent email requesting operations data for 2012.
MAF	Midland Intl	Justine Ruff, Interim Director/ADA Appliance Officer	432-560-2200 x 3010		Janet Mangum	Call - 11/21/2014 2:50 PM	Justine Ruff	Left voicemail.
MAF	Midland Intl	Justine Ruff, Interim Director/ADA Appliance Officer	432-560-2200 x 3010		Janet Mangum	Call - 1/9/2015 11:22 AM	Justine Ruff	Left voicemail.
F39	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Call - 11/21/2014 2:45 PM	Mike Shahan	Agreed to provide data.
F39	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Email - 11/21/2014 2:55 PM	Mike Shahan	Sent email requesting operations data.
F39	North Texas Rgnl/Perrin Field	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Janet Mangum	Email returned - 11/21/2014	Mike Shahan	Submitted 2012 and 2014 operations counted by control tower staff that only

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
						3:16 PM		worked 8 hours per day in 2012, and 12 hours per day in 2014 (2012 = 33,343 ops, 2014 = 72,975 ops). They have eight electric gates that control access in/out of the airport. Th
ODO	Odessa-Schlemeyer Field	John Landgraf, Airport Manager	432-332-5058	lca@lcaodessa.com	Janet Mangum	Call - 11/21/2014 3:04 PM	AManda	Left message for John Langraf.
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese@AMarillo.gov	Janet Mangum	Call - 11/21/2014 3:30 PM	Sarah Freese	Left voicemail.
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese@AMarillo.gov	Janet Mangum	Call - 1/9/2015 11:27 AM	Sarah Freese	Left voicemail.
AMA	Rick Husband Amarillo Intl	Sarah Freese, Director of Aviation	806-335-1671	sara.freese@AMarillo.gov	Janet Mangum	Call - 2/3/2015 12:45 PM	Sarah Freese	Left message for Sarah Freese.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Janet Mangum	Call - 11/21/2014 3:36 PM	Janice Crimm	Left voicemail.
SJT	San Angelo Rgnl/Mathis Field	Alan Angers (American Airline)	817-931-5423	alan.angers@aa.com	Janet Mangum	Call - 11/21/2014 3:34PM	Alan Angers (American Airline)	Left voicemail.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Janet Mangum	Email - 11/24/2014 12:40 PM	Janice Crimm	Sent email requesting operations data.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Janet Mangum	Email returned - 12/4/2014 9:54 AM	Janice Crimm	Submitted aircraft make/models at the SJT (Embraer ERJ-145, Canadair CRJ-200); flight information (5 flights Sunday thru Friday, 4 flights on Saturday); taxi time data (Taxi-in= 5 minutes, Taxi-out = 5 minutes); and use

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								electric GSE.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Jennifer Sellers	Email - 2/4/2015 9:32 AM	Janice Crimm	Sent email clarifying data provided. (i.e. does the data apply to 2012 and 2014, and how the operations are allocated to each aircraft make/model).
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Janet Mangum	Call - 2/16/2015 2:05 PM	Janice Crimm	Data submitted are LTOs.
SJT	San Angelo Rgnl/Mathis Field	Janice Crimm	325-659-6409, option 3	janice.crimm@cosatx.us	Jennifer Sellers	Email - 5/6/2015 1013 AM	Janice Crimm	Clarified that the data provided was for commercial flights only.
HYI	San Marcos Muni	Stephen Alexander	512-216-6039	salexander@texasaviationpartners.com	Janet Mangum	Call - 11/21/2014 3:39 PM	Operator	Left message for Stephen Alexander and Cassidy Berenato. Ms. Berenato's contact information is cberenato@texasaviationpartners.com.
HYI	San Marcos Muni	Stacey Batch	(512) 216-6039		Janet Mangum	Call returned - 11/26/2014 12:10 PM	Stacey Batch	Submitted 2012 and 2014 data (2012--61,722; 2014--44,000 (Jan-Oct)).
HYI	San Marcos Muni	Stacey Batch	(512) 216-6039		Janet Mangum	Call - 2/16/2015 1:43 PM	Stacey Batch	Submitted data are operations.
SPS	Sheppard Afb/Wichita Falls Muni	Sarah Johnson, Airport Manager	940-855-3623	sarah.johnson@wichitafallstx.gov	Janet Mangum	Call - 11/21/2014 3:51 PM	Sarah Johnson	Mailbox full.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Janet Mangum	Call - 11/21/2014 4:12 PM	Cheryl McInnis	Referred to TYR website (www.flytyr.com).
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email - 2/4/2015 10:58 AM	Cheryl McInnis	Sent email requesting specific web link to data.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-	cmcinnis@tylertexas.c	Jennifer Sellers	Email returned -	Cheryl McInnis	Responded with a web link (http://www.cityoftyler.org/

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
			595-7201	om		2/4/2015 11:02 AM		Departments/Airport/GeneralAviation.aspx) for general airport information.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email - 2/4/2015 11:10 AM	Cheryl McInnis	Sent email requesting operations data.
TYR	Tyler Pounds Rgnl	Cheryl McInnis	903-531-2343 or 903-595-7201	cmcinnis@tylertexas.com	Jennifer Sellers	Email returned - 2/4/2015 11:39 AM	Cheryl McInnis	Indicated that they do not track operations data. Provided the contact information for Floyd Munroe, ATCT Manager (tyr@rvainc.com), who might be of assistance.
TYR	Tyler Pounds Rgnl	Floyd Munroe, ATCT Manager		tyr@rvainc.com	Jennifer Sellers	Email - 2/4/2015 11:52 AM	Floyd Munroe	Sent email requesting operations data.
TYR	Tyler Pounds Rgnl	Floyd Munroe, ATCT Manager		tyr@rvainc.com	Jennifer Sellers	Email returned - 2/11/2015 9:42 AM	Floyd Munroe	Refusal to provide data.
HRL	Valley Intl	Bryan Wren	(956)367-2327	bryan@flythevalley.com	Janet Mangum	Email - 1/9/2015 10:41:00 AM	Bryan Wren	Sent email requesting operations data.
HRL	Valley Intl	Bryan Wren	(956)367-2327	bryan@flythevalley.com	Janet Mangum	Email returned - 1/9/2015 2:51:00 AM	Bryan Wren	Submitted 2012 and 2014 operations data (2012 ops: 36,500; 2014 ops: 39,200). United Airlines uses electric GSEs.
HRL	Valley Intl	Bryan Wren	(956)367-2327	bryan@flythevalley.com	Jennifer Sellers	Email - 6/9/2015 6:05 PM	Bryan Wren	Clarified 15% of GSEs are United Airlines.
VCT	Victoria Rgnl	Jason Milewski, Airport Manager	361-578-2704	jmilewski@prautes.com & sturner@flyvictoriatx.com	Janet Mangum	Call - 11/21/2014 4:18 PM	Jason Milewski	Left voicemail.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
ACT	Waco Regional		254-750-8475		Janet Mangum	Call - 11/25/2014 1:30 PM		Left voicemail.
BMQ	Burnet Muni Kate Craddock Field	Crista Bromley/manager	512-756-6655		Janet Mangum	Call - 11/25/2014 1:40 PM	Crista Bromley/manager	Left voicemail.
BRO	Brownsville/South Padre Island Int'l		956-542-4373 x 307		Janet Mangum	Call - 11/25/2014 1:43 PM		Left voicemail.
CNW	Tstc Waco	Kevin Dorton, Director	254-867-4801		Janet Mangum	Call 11/25/2014 1:51 PM	Kevin Dorton	Left voicemail.
CRP	Corpus Christi Intl	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 11/25/2014 1:56 PM	Carl Gross	Left voicemail.
CRP	Corpus Christi Intl	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 12/2/2014 2:39 PM	Carl Gross	2012=85,852; 2014=59487; 2012 breakdown: air taxi=19,585, military=46,344, gen.aviation=19,923; 2014: air taxi=13,576, military=31,752, gen.aviation=14,159
CRP	Corpus Christi Intl	Carl Gross	361-289-0171, x1210		Janet Mangum	Call - 2/19/2015 4:38 PM	Carl Gross	Submitted data are operations.
HDO	Hondo Muni	Chuck Friesenhann	(830) 426-3810 x 107		Janet Mangum	Call - 11/26/2014 12:00 PM	Chuck Friesenhann	Left voicemail.
HDO	Hondo Muni	Robert Lee	(830) 426-3810		Janet Mangum	Call - 1/30/2015 11:34 AM	Robert Lee	Friesenhann no longer at HDO. Left message for Robert Lee.
HDO	Hondo Muni	Robert Lee	(830) 426-3810	rlee@hondo-tx.org	Janet Mangum	Email - 1/30/2015 12:51 PM	Robert Lee	Sent email. Has been at Hondo since December. Friesenhann left 6/2014. No one has been monitoring. Hondo is a public use

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
								airfield with about 40 base customers but minimal traffic recently. He could possibly give info based on fuel sales.
ILE	Skylark Field	Gilbert Martinez or Rosemary Harris	254-501-8728		Janet Mangum	Call - 11/26/2014 - 12:15 PM	Operator	Left message.
PVW	Hale County	Mark Edlin or Gary McCormick	806-293-4121	lineservice @rocket-aviation.com	Janet Mangum	Email - 11/26/2014 12:47 PM	Mark Edlin	Sent email requesting operations data.
SAT	San Antonio Intl		210-207-3477 or 210-207- 3540		Janet Mangum	Call - 11/26/2014 12:55 PM		Left voicemail.
SAT	San Antonio Intl	Mary Wells	210-207-3847	mary.wells @sananton io.gov	Janet Mangum	Email - 12/1/2014 6:46 PM	Mary Wells	Sent email requesting operations data.
SAT	San Antonio Intl	Mary Wells	210-207-3847	mary.wells @sananton io.gov	Janet Mangum	Email returned - 12/9/2014 5:05 PM	Mary Wells	Submitted 2012 and 2014 data via email.
SAT	San Antonio Intl	Steven Southers, Environmental Stewardship Manager	210-207-3402	Steven.Sou thers@sana ntonio.gov	Jennifer Sellers	Call - 12/9/2014 2:45 PM	Steven Southers	Requested that TCEQ call him directly.
SAT	San Antonio Intl	Steven Southers, Environmental Stewardship Manager	210-207-3402	Steven.Sou thers@sana ntonio.gov		12/10/2014	Steven Southers	TCEQ left a voicemail.
SSF	Stinson Muni		210.207.180 0		Janet Mangum	Call - 11/26/2014 12:58 PM		Left voicemail.
T27	Horizon		(915) 852-3554		Janet Mangum	Call - 11/26/2014 2:35 PM		Airport closed.

State Facility Identifier	Facility Name	Contact Name	Number	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
T65	Mid Valley		(956) 969-0291		Janet Mangum	Call - 11/26/2014 2:47 PM		T65 does not have a tower and does not keep track of operations data.
TDW	Tradewind		806-376-1008		Janet Mangum	Call - 11/26/2014 3:09 PM		TDW is not a controlled airspace, and does not track operations data.

Appendix B
Aircraft Specific Activity Data

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	COMMANDER500		675
2014	DAL	DALLAS LOVE FIELD	SA350		9
2014	DAL	DALLAS LOVE FIELD	AEROSTAR		25
2014	DAL	DALLAS LOVE FIELD	A109		13
2014	DAL	DALLAS LOVE FIELD	A300F4-6		1
2014	DAL	DALLAS LOVE FIELD	A310-2		2
2014	DAL	DALLAS LOVE FIELD	A319-1		996
2014	DAL	DALLAS LOVE FIELD	A320-2		77
2014	DAL	DALLAS LOVE FIELD	A321-1		2
2014	DAL	DALLAS LOVE FIELD	A330-2		1
2014	DAL	DALLAS LOVE FIELD	BEECH18		6
2014	DAL	DALLAS LOVE FIELD	BEECH1900-C		2
2014	DAL	DALLAS LOVE FIELD	BEECH55		62
2014	DAL	DALLAS LOVE FIELD	BEECH36		668
2014	DAL	DALLAS LOVE FIELD	BEECH99		1
2014	DAL	DALLAS LOVE FIELD	BEECH90		759
2014	DAL	DALLAS LOVE FIELD	BELL206		11
2014	DAL	DALLAS LOVE FIELD	B407		9
2014	DAL	DALLAS LOVE FIELD	MIL-AH1S		68
2014	DAL	DALLAS LOVE FIELD	MIL-UH1		9
2014	DAL	DALLAS LOVE FIELD	B717-2		186
2014	DAL	DALLAS LOVE FIELD	B727-1		1
2014	DAL	DALLAS LOVE FIELD	B727-2		59
2014	DAL	DALLAS LOVE FIELD	B737-1		21,266
2014	DAL	DALLAS LOVE FIELD	B737-2		4
2014	DAL	DALLAS LOVE FIELD	B737-3		12,068
2014	DAL	DALLAS LOVE FIELD	B737-4		47
2014	DAL	DALLAS LOVE FIELD	B737-5		6,873

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	B737-8		469
2014	DAL	DALLAS LOVE FIELD	B737-9		4
2014	DAL	DALLAS LOVE FIELD	B757-2		67
2014	DAL	DALLAS LOVE FIELD	B767-2		38
2014	DAL	DALLAS LOVE FIELD	B767-3		2
2014	DAL	DALLAS LOVE FIELD	B787-8		1
2014	DAL	DALLAS LOVE FIELD	DC3		2
2014	DAL	DALLAS LOVE FIELD	DC9-1		9
2014	DAL	DALLAS LOVE FIELD	MIL-F18		1
2014	DAL	DALLAS LOVE FIELD	MD81		2
2014	DAL	DALLAS LOVE FIELD	MD83		14
2014	DAL	DALLAS LOVE FIELD	MD88		1
2014	DAL	DALLAS LOVE FIELD	CL300		1,652
2014	DAL	DALLAS LOVE FIELD	CL600		1,186
2014	DAL	DALLAS LOVE FIELD	CL604		15
2014	DAL	DALLAS LOVE FIELD	CRJ7		9
2014	DAL	DALLAS LOVE FIELD	CRJ9		54
2014	DAL	DALLAS LOVE FIELD	GLOBALEXPRESS		166
2014	DAL	DALLAS LOVE FIELD	GLOBAL5000		114
2014	DAL	DALLAS LOVE FIELD	LEAR25		24
2014	DAL	DALLAS LOVE FIELD	LEAR31		144
2014	DAL	DALLAS LOVE FIELD	LEAR35		224
2014	DAL	DALLAS LOVE FIELD	LEAR36		2
2014	DAL	DALLAS LOVE FIELD	LEAR40		630
2014	DAL	DALLAS LOVE FIELD	LEAR45		926
2014	DAL	DALLAS LOVE FIELD	LEAR55		135
2014	DAL	DALLAS LOVE FIELD	LEAR60		587
2014	DAL	DALLAS LOVE FIELD	J31		2

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	CRJ1		1
2014	DAL	DALLAS LOVE FIELD	CRJ2		1,304
2014	DAL	DALLAS LOVE FIELD	CNA150		43
2014	DAL	DALLAS LOVE FIELD	CNA172		1,308
2014	DAL	DALLAS LOVE FIELD	CNA182		372
2014	DAL	DALLAS LOVE FIELD	CNA206		105
2014	DAL	DALLAS LOVE FIELD	CNA310		92
2014	DAL	DALLAS LOVE FIELD	CNA337		22
2014	DAL	DALLAS LOVE FIELD	CNA340		82
2014	DAL	DALLAS LOVE FIELD	CNA414		188
2014	DAL	DALLAS LOVE FIELD	CNA421		367
2014	DAL	DALLAS LOVE FIELD	CNA425		129
2014	DAL	DALLAS LOVE FIELD	CNA441		100
2014	DAL	DALLAS LOVE FIELD	CNA500		24
2014	DAL	DALLAS LOVE FIELD	CNA501		390
2014	DAL	DALLAS LOVE FIELD	CNA525		1,800
2014	DAL	DALLAS LOVE FIELD	CNA551		10
2014	DAL	DALLAS LOVE FIELD	CNA560-XL		1,927
2014	DAL	DALLAS LOVE FIELD	CNA560		1,073
2014	DAL	DALLAS LOVE FIELD	CNA650		852
2014	DAL	DALLAS LOVE FIELD	CNA680		1,133
2014	DAL	DALLAS LOVE FIELD	CNA210		143
2014	DAL	DALLAS LOVE FIELD	CNA208		533
2014	DAL	DALLAS LOVE FIELD	CNA402		6
2014	DAL	DALLAS LOVE FIELD	CNA550		1,021
2014	DAL	DALLAS LOVE FIELD	CNA750		845
2014	DAL	DALLAS LOVE FIELD	SR20		60
2014	DAL	DALLAS LOVE FIELD	SR22		674

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	CV580		4
2014	DAL	DALLAS LOVE FIELD	FAL2000		781
2014	DAL	DALLAS LOVE FIELD	FAL200		145
2014	DAL	DALLAS LOVE FIELD	FAL50		651
2014	DAL	DALLAS LOVE FIELD	FAL900		764
2014	DAL	DALLAS LOVE FIELD	FAL10		61
2014	DAL	DALLAS LOVE FIELD	DHC8-1		1
2014	DAL	DALLAS LOVE FIELD	DHC8-2		3
2014	DAL	DALLAS LOVE FIELD	DO328JET		24
2014	DAL	DALLAS LOVE FIELD	TRIN		3
2014	DAL	DALLAS LOVE FIELD	TB9		2
2014	DAL	DALLAS LOVE FIELD	TBM700		183
2014	DAL	DALLAS LOVE FIELD	TBM-850		91
2014	DAL	DALLAS LOVE FIELD	ECLIPSE500		130
2014	DAL	DALLAS LOVE FIELD	EMB120		14
2014	DAL	DALLAS LOVE FIELD	ERJ135		758
2014	DAL	DALLAS LOVE FIELD	ERJ145-XR		274
2014	DAL	DALLAS LOVE FIELD	ERJ170		1
2014	DAL	DALLAS LOVE FIELD	EMBLEG		1,732
2014	DAL	DALLAS LOVE FIELD	ERJ145		954
2014	DAL	DALLAS LOVE FIELD	SA226		63
2014	DAL	DALLAS LOVE FIELD	SA227AT		26
2014	DAL	DALLAS LOVE FIELD	SA26		45
2014	DAL	DALLAS LOVE FIELD	FAL7X		242
2014	DAL	DALLAS LOVE FIELD	GULF100		88
2014	DAL	DALLAS LOVE FIELD	GULF150		266
2014	DAL	DALLAS LOVE FIELD	GULF200		608
2014	DAL	DALLAS LOVE FIELD	GULF280		294

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	GULF650		87
2014	DAL	DALLAS LOVE FIELD	GULF1		1
2014	DAL	DALLAS LOVE FIELD	GULF2		32
2014	DAL	DALLAS LOVE FIELD	GULF4-SP		917
2014	DAL	DALLAS LOVE FIELD	GULF5-SP		785
2014	DAL	DALLAS LOVE FIELD	HS125-1		61
2014	DAL	DALLAS LOVE FIELD	HS125-7		1,494
2014	DAL	DALLAS LOVE FIELD	MIL-U10		41
2014	DAL	DALLAS LOVE FIELD	IL96		1
2014	DAL	DALLAS LOVE FIELD	IAI1124		252
2014	DAL	DALLAS LOVE FIELD	IAI1125		3
2014	DAL	DALLAS LOVE FIELD	MAULE7		16
2014	DAL	DALLAS LOVE FIELD	MD82		1
2014	DAL	DALLAS LOVE FIELD	DC9-3		10
2014	DAL	DALLAS LOVE FIELD	MD90		1
2014	DAL	DALLAS LOVE FIELD	MU2		38
2014	DAL	DALLAS LOVE FIELD	MU300		60
2014	DAL	DALLAS LOVE FIELD	MOONEY-M20K		172
2014	DAL	DALLAS LOVE FIELD	P68		1
2014	DAL	DALLAS LOVE FIELD	P180		92
2014	DAL	DALLAS LOVE FIELD	PC12		781
2014	DAL	DALLAS LOVE FIELD	PA23		11
2014	DAL	DALLAS LOVE FIELD	PA24		22
2014	DAL	DALLAS LOVE FIELD	PA27		4
2014	DAL	DALLAS LOVE FIELD	PA28		333
2014	DAL	DALLAS LOVE FIELD	PA30		55
2014	DAL	DALLAS LOVE FIELD	PA31		64
2014	DAL	DALLAS LOVE FIELD	PA32		151

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DAL	DALLAS LOVE FIELD	PA34		35
2014	DAL	DALLAS LOVE FIELD	PA42		133
2014	DAL	DALLAS LOVE FIELD	PA46T		408
2014	DAL	DALLAS LOVE FIELD	BEECH60		12
2014	DAL	DALLAS LOVE FIELD	BEECH58		334
2014	DAL	DALLAS LOVE FIELD	BEECH400		945
2014	DAL	DALLAS LOVE FIELD	MIL-C12		1,558
2014	DAL	DALLAS LOVE FIELD	H4000		63
2014	DAL	DALLAS LOVE FIELD	BEECH100		37
2014	DAL	DALLAS LOVE FIELD	PREMIER		181
2014	DAL	DALLAS LOVE FIELD	BEECH300		1,062
2014	DAL	DALLAS LOVE FIELD	R22		18
2014	DAL	DALLAS LOVE FIELD	R44		50
2014	DAL	DALLAS LOVE FIELD	COMMANDER680		3
2014	DAL	DALLAS LOVE FIELD	COMMANDER690		80
2014	DAL	DALLAS LOVE FIELD	COMMANDER980		38
2014	DAL	DALLAS LOVE FIELD	SABR50		60
2014	DAL	DALLAS LOVE FIELD	SAAB2000		40
2014	DAL	DALLAS LOVE FIELD	SAAB340-B		1
2014	DAL	DALLAS LOVE FIELD	S76		113
2014	DAL	DALLAS LOVE FIELD	MIL-SH60		219
2014	DAL	DALLAS LOVE FIELD	MIL-T38		8
2014	DFW	Dallas/Fort Worth International	A300B4-6	2GE038	1,066
2014	DFW	Dallas/Fort Worth International	A320-1	1CM008	8,279
2014	DFW	Dallas/Fort Worth International	A330-3	3GE057	203
2014	DFW	Dallas/Fort Worth International	A380-8	9EA001	181
2014	DFW	Dallas/Fort Worth International	A319-1	3CM027	23,503
2014	DFW	Dallas/Fort Worth International	A321-1	1IA005	4,516

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DFW	Dallas/Fort Worth International	A340-3	2CM015	136
2014	DFW	Dallas/Fort Worth International	BEECH1900-C	PT6A6B	324
2014	DFW	Dallas/Fort Worth International	BEECH200	PT6A42	220
2014	DFW	Dallas/Fort Worth International	BEECH99	PT6A20	854
2014	DFW	Dallas/Fort Worth International	B737-7	3CM030	731
2014	DFW	Dallas/Fort Worth International	B737-8W	3CM034	48,365
2014	DFW	Dallas/Fort Worth International	B737-9	8CM051	1,193
2014	DFW	Dallas/Fort Worth International	B747-4	2GE045	1,845
2014	DFW	Dallas/Fort Worth International	B747-8F	11GE134	694
2014	DFW	Dallas/Fort Worth International	B757-2	3RR034	11,078
2014	DFW	Dallas/Fort Worth International	B767-2	1GE010	261
2014	DFW	Dallas/Fort Worth International	B767-2	1GE010	390
2014	DFW	Dallas/Fort Worth International	B767-3ER	1GE029	4,589
2014	DFW	Dallas/Fort Worth International	B777-2	2RR027	3,420
2014	DFW	Dallas/Fort Worth International	B777-2LRF	7GE097	456
2014	DFW	Dallas/Fort Worth International	B777-3ER	7GE099	1,088
2014	DFW	Dallas/Fort Worth International	MD11-F	1GE031	1,625
2014	DFW	Dallas/Fort Worth International	MD83	1PW019	41,015
2014	DFW	Dallas/Fort Worth International	MD88	4PW070	3,342
2014	DFW	Dallas/Fort Worth International	CL300	6AL006	138
2014	DFW	Dallas/Fort Worth International	CL604	5GE084	187
2014	DFW	Dallas/Fort Worth International	CRJ9	8GE110	3,899
2014	DFW	Dallas/Fort Worth International	CRJ2	5GE084	14,160
2014	DFW	Dallas/Fort Worth International	CRJ7	5GE083	8,950
2014	DFW	Dallas/Fort Worth International	CNA560-XL	1PW037	375
2014	DFW	Dallas/Fort Worth International	CNA560	1PW037	175
2014	DFW	Dallas/Fort Worth International	CNA208	P6114A	3,278
2014	DFW	Dallas/Fort Worth International	CNA208	P6114A	1,332

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	DFW	Dallas/Fort Worth International	ERJ145-EU	6AL005	56,379
2014	DFW	Dallas/Fort Worth International	ERJ145-XR	6AL020	858
2014	DFW	Dallas/Fort Worth International	ERJ175	8GE111	8,416
2014	DFW	Dallas/Fort Worth International	ERJ190	11GE140	1,981
2014	DFW	Dallas/Fort Worth International	ERJ135	6AL012	20,423
2014	DFW	Dallas/Fort Worth International	HS125-7	1AS002	229
2014	DFW	Dallas/Fort Worth International	DC10-1	3GE069	896
2014	DFW	Dallas/Fort Worth International	MD82	1PW019	56,515
2014	DFW	Dallas/Fort Worth International	PC12	PT6A67	482
2014	DFW	Dallas/Fort Worth International	BEECH400	1PW037	169
2014	DFW	Dallas/Fort Worth International	SA227	TPE10	635
2014	EFD	ELLINGTON FIELD	A320-1	1IA003	32
2014	EFD	ELLINGTON FIELD	A1B	IO360	66
2014	EFD	ELLINGTON FIELD	BEECH200	PT6A41	3,157
2014	EFD	ELLINGTON FIELD	BEECH55	TIO540	395
2014	EFD	ELLINGTON FIELD	BEECH36	TIO540	466
2014	EFD	ELLINGTON FIELD	BEECH99	PT6A20	131
2014	EFD	ELLINGTON FIELD	BEECH90	PT6A21	411
2014	EFD	ELLINGTON FIELD	BELL206	250B17	33
2014	EFD	ELLINGTON FIELD	MIL-AH1S	T5311D	4,571
2014	EFD	ELLINGTON FIELD	B717-2	4BR005	32
2014	EFD	ELLINGTON FIELD	B727-2	1PW013	463
2014	EFD	ELLINGTON FIELD	B737-3	1CM007	261
2014	EFD	ELLINGTON FIELD	B737-5	1CM007	66
2014	EFD	ELLINGTON FIELD	B737-7	3CM031	66
2014	EFD	ELLINGTON FIELD	B737-8	3CM034	99
2014	EFD	ELLINGTON FIELD	B737-8	8CM051	4
2014	EFD	ELLINGTON FIELD	B737-9	8CM051	1

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	EFD	ELLINGTON FIELD	B757-2	4PW072	1
2014	EFD	ELLINGTON FIELD	B757-2	4PW072	66
2014	EFD	ELLINGTON FIELD	B767-2	1GE011	32
2014	EFD	ELLINGTON FIELD	B767-3ER	12PW101	8
2014	EFD	ELLINGTON FIELD	B767-3	12PW101	185
2014	EFD	ELLINGTON FIELD	B777-2	2RR027	66
2014	EFD	ELLINGTON FIELD	DC3	R1820	32
2014	EFD	ELLINGTON FIELD	DC9-1	8PW085	494
2014	EFD	ELLINGTON FIELD	CL300	6AL006	66
2014	EFD	ELLINGTON FIELD	CL600	5GE084	329
2014	EFD	ELLINGTON FIELD	LEAR24	CJ6106	197
2014	EFD	ELLINGTON FIELD	LEAR25	CJ6106	132
2014	EFD	ELLINGTON FIELD	LEAR31	1AS001	164
2014	EFD	ELLINGTON FIELD	LEAR35	1AS001	460
2014	EFD	ELLINGTON FIELD	LEAR40	1AS001	197
2014	EFD	ELLINGTON FIELD	LEAR45	1AS001	66
2014	EFD	ELLINGTON FIELD	LEAR55	1AS002	164
2014	EFD	ELLINGTON FIELD	LEAR60	TFE731	132
2014	EFD	ELLINGTON FIELD	J31	TP10UG	461
2014	EFD	ELLINGTON FIELD	CRJ2	5GE084	66
2014	EFD	ELLINGTON FIELD	CNA172	IO320	2,098
2014	EFD	ELLINGTON FIELD	CNA182	IO360	756
2014	EFD	ELLINGTON FIELD	CNA206	IO360	99
2014	EFD	ELLINGTON FIELD	CNA310	TIO540	132
2014	EFD	ELLINGTON FIELD	CNA340	TIO540	823
2014	EFD	ELLINGTON FIELD	CNA414	TIO540	99
2014	EFD	ELLINGTON FIELD	CNA421	TIO540	659
2014	EFD	ELLINGTON FIELD	CNA425	PT6A60	32

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	EFD	ELLINGTON FIELD	CNA441	TPE8	197
2014	EFD	ELLINGTON FIELD	CNA500	1PW035	230
2014	EFD	ELLINGTON FIELD	CNA501	1PW035	337
2014	EFD	ELLINGTON FIELD	CNA525	1PW035	505
2014	EFD	ELLINGTON FIELD	CNA560-XL	1PW037	426
2014	EFD	ELLINGTON FIELD	CNA560	1PW037	623
2014	EFD	ELLINGTON FIELD	CNA650	1AS002	659
2014	EFD	ELLINGTON FIELD	CNA680	7PW080	66
2014	EFD	ELLINGTON FIELD	CNA210	TIO540	559
2014	EFD	ELLINGTON FIELD	CNA208	P6114A	855
2014	EFD	ELLINGTON FIELD	CNA550	1PW036	623
2014	EFD	ELLINGTON FIELD	CNA750	6AL022	527
2014	EFD	ELLINGTON FIELD	SR20	IO360	66
2014	EFD	ELLINGTON FIELD	SR22	TIO540	296
2014	EFD	ELLINGTON FIELD	FAL2000EX	7PW080	132
2014	EFD	ELLINGTON FIELD	FAL50	1AS002	460
2014	EFD	ELLINGTON FIELD	FAL900	1AS002	132
2014	EFD	ELLINGTON FIELD	FAL10	1AS001	789
2014	EFD	ELLINGTON FIELD	TBM700	PT6A64	130
2014	EFD	ELLINGTON FIELD	ERJ145	6AL006	7
2014	EFD	ELLINGTON FIELD	ERJ140	6AL017	296
2014	EFD	ELLINGTON FIELD	ERJ145	6AL020	426
2014	EFD	ELLINGTON FIELD	SA227AT	TPE10N	2,105
2014	EFD	ELLINGTON FIELD	GULF150	1AS002	99
2014	EFD	ELLINGTON FIELD	GULF4	1RR019	659
2014	EFD	ELLINGTON FIELD	GULF2	MK511	32
2014	EFD	ELLINGTON FIELD	GULF5	4BR008	164
2014	EFD	ELLINGTON FIELD	HS125-1	1AS002	32

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	EFD	ELLINGTON FIELD	HS125-7	1AS002	1,184
2014	EFD	ELLINGTON FIELD	IAI1124	1AS002	132
2014	EFD	ELLINGTON FIELD	JETSTAR-II/731	1AS002	66
2014	EFD	ELLINGTON FIELD	MIL-F16	F10010	1,562
2014	EFD	ELLINGTON FIELD	MU2	TPE10N	197
2014	EFD	ELLINGTON FIELD	MOONEY-M20K	TSIO36	319
2014	EFD	ELLINGTON FIELD	P180	PT6A60	164
2014	EFD	ELLINGTON FIELD	PC12	PT67B	296
2014	EFD	ELLINGTON FIELD	PA24	TIO540	66
2014	EFD	ELLINGTON FIELD	PA28	IO360	98
2014	EFD	ELLINGTON FIELD	PA30	IO320	32
2014	EFD	ELLINGTON FIELD	PA31	TIO540	230
2014	EFD	ELLINGTON FIELD	PA32	TIO540	559
2014	EFD	ELLINGTON FIELD	PA34	IO360	823
2014	EFD	ELLINGTON FIELD	PA42	TPE10N	66
2014	EFD	ELLINGTON FIELD	PA46T	PT6A42	558
2014	EFD	ELLINGTON FIELD	PA31T	PT6A28	337
2014	EFD	ELLINGTON FIELD	BEECH60	TIO540	206
2014	EFD	ELLINGTON FIELD	BEECH58	TIO540	691
2014	EFD	ELLINGTON FIELD	BEECH400	1PW037	788
2014	EFD	ELLINGTON FIELD	PREMIER	1PW035	99
2014	EFD	ELLINGTON FIELD	BEECH300	P660AG	3,584
2014	EFD	ELLINGTON FIELD	COMMANDER690	TPE10	56
2014	EFD	ELLINGTON FIELD	SABR40	CF700D	4,372
2014	EFD	ELLINGTON FIELD	MIL-T38	J855HA	7,434
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1GE020	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	3GE056	10
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1PW048	244

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1PW048	164
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	2GE037	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	2GE037	225
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A318-1	7CM048	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	1IA003	14,324
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1CM008	18,587
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A321-1	3CM024	640
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A321-2	1CM008	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A330-2	4GE080	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A330-3	5PW075	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A340-2	2CM015	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A380-8	9RR047	348
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	1PW028	112
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-3	1PW044	112
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	4CM036	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3CM027	489
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA006	977
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA007	489
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-2	1IA003	2,932
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	AN12	AI24VT	4
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	AN124	1ZM001	34
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	AN124	1ZM001	49
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ATR42-5	PW127E	13,632
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-AH1S	T5311D	7
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B717-2	4BR002	458
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	8PW085	23
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW006	6
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW010	90

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW011	9
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW013	7
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW014	78
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW016	31
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	4PW070	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW007	26
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	212
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-4	1CM005	1,368
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-4	1CM006	528
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-5	1CM007	5,082
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM031	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM031	6,701
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM032	6,060
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	8CM064	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	8CM051	25,535
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	8CM051	11,142
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-9	8CM051	18,765
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-9	8CM051	16,196
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1RR007	181
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1GE009	31
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	3GE077	316
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW024	157
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW025	126
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	2GE045	494
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	4RR037	204
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4F	3GE057	395
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	1PW041	867

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-8I	8GENX1	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-8F	8GENX1	347
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	4PW073	221
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	5RR038	5,303
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	4PW072	5,589
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-3	5RR039	1,759
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-3	3RR034	1,952
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2ER	1GE012	274
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2	1GE010	1,462
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2ER	1GE027	586
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3ER	12PW101	3,150
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3	2GE054	390
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3ER	1PW043	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-4	8GE101	601
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-4ER	8GE101	1,368
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	2PW061	2,651
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	2PW061	782
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2ER	6GE090	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2ER	2RR027	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2ER	5RR040	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2LR	7GE097	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2LRF	7GE097	41
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	7GE099	1,461
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B787-8	9GENX5	1,003
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-C17A	F1171	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	1GE001	320
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	1GE001	580
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-3	3GE074	255

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC8-7	1CM003	197
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-2	1PW008	3,519
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-3	1PW006	11
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1PW052	406
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1PW052	481
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD81	1PW019	2,150
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD90	1IA004	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD90	1IA004	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CL300	6AL006	263
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CL600	5GE084	120
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE084	271
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2-ER	5GE084	5,715
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2-ER	5GE084	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2-LR	5GE084	1,955
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	8GE103	8,796
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	8GE112	13,397
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7-ER	5GE083	195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7-LR	8GE110	1,368
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ705-LR	8GE110	2,195
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ705-LR	8GE103	1,350
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ9	8GE110	2,748
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ9	8GE103	3,510
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ9-ER	8GE110	1,955
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	6GE096	539
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DHC8Q-4	PW150A	23,216
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GLOBALEXPRESS	4BR003	22
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR24	CJ6106	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR25	CJ6106	35

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR31	1AS001	60
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR35	1AS001	140
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR40	1AS001	28
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR45	1AS001	287
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR55	1AS002	34
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR60	TFE731	144
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	1GE035	336
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	1,284
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	1,909
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA206	IO360	324
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA208	P6114A	189
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA208	P6114A	51
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA500	1PW035	14
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA501	1PW035	35
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA525	1PW035	234
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA551	1PW036	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA560-XL	1PW037	417
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA560	1PW037	371
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA650	1AS002	157
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA680	7PW080	253
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA550	1PW036	161
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL20-C	CF700D	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL20-C	CF700D	9
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DO328JET	7PW078	8
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	EMB120	PW118B	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ135	6AL011	10,387
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ135	6AL011	82
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ140	6AL011	3

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	6AL006	85,159
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145-LR	6AL007	18,179
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145-XR	6AL020	42,612
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ170	8GE108	6,511
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ170	8GE108	782
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ170	8GE102	810
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ175	8GE108	586
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ175	8GE108	2,049
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ175	8GE102	1,079
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ190	8GE114	810
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ190	8GE115	2,616
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ190-AR	11GE143	782
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ190-AR	11GE145	391
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	4AL003	46,103
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	6AL020	34,084
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF200	7PW077	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF3	MK511	33
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF3	1RR019	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF4	1RR019	408
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF2	MK511	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF5	4BR008	91
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-1	1AS002	13
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-3	1AS002	8
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-7	1AS002	2
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IL76	1AA005	8
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1124	1AS002	62
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1125	1AS002	20
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1126	7PW077	89

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-C130	T56A15	3
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	JETSTAR-I	CF700D	5
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	WB57	TF3333	3
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	3GE078	106
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	2GE049	481
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MU300	1PW037	7
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA31	TIO540	1,126
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA31	TIO540	667
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH58	TIO540	468
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH400	1PW037	740
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-1000	TFE731	690
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-8	1AS002	1
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PREMIER	1PW035	65
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	SABR40	CF700D	18
2014	IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-T38	J855HA	92
2014	HOU	WILLIAM P HOBBY	A319-1	1IA003	127
2014	HOU	WILLIAM P HOBBY	A320-1	1CM008	67
2014	HOU	WILLIAM P HOBBY	A321-1	3CM024	1
2014	HOU	WILLIAM P HOBBY	A319-1	3CM027	1,215
2014	HOU	WILLIAM P HOBBY	A319-1	3IA006	4
2014	HOU	WILLIAM P HOBBY	A320-2	1IA003	810
2014	HOU	WILLIAM P HOBBY	A1B	IO360	4
2014	HOU	WILLIAM P HOBBY	BAE146-100	1TL002	4
2014	HOU	WILLIAM P HOBBY	BEECH1900-C	PT67D	6
2014	HOU	WILLIAM P HOBBY	BEECH200	PT6A41	2,193
2014	HOU	WILLIAM P HOBBY	BEECH55	TIO540	51
2014	HOU	WILLIAM P HOBBY	BEECH36	TIO540	194
2014	HOU	WILLIAM P HOBBY	BEECH99	PT6A20	204

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	BEECH90	PT6A21	1,016
2014	HOU	WILLIAM P HOBBY	BELL206	250B17	4
2014	HOU	WILLIAM P HOBBY	MIL-AH1S	T5311D	1,415
2014	HOU	WILLIAM P HOBBY	B717-2	4BR002	204
2014	HOU	WILLIAM P HOBBY	B717-2	4BR002	2,131
2014	HOU	WILLIAM P HOBBY	B717-2	4BR004	2,025
2014	HOU	WILLIAM P HOBBY	B727-2	1PW006	1
2014	HOU	WILLIAM P HOBBY	B737-2	1PW010	8
2014	HOU	WILLIAM P HOBBY	B737-3	1CM007	2,210
2014	HOU	WILLIAM P HOBBY	B737-3	1CM004	11,933
2014	HOU	WILLIAM P HOBBY	B737-3	1CM004	18,634
2014	HOU	WILLIAM P HOBBY	B737-4	1CM006	20
2014	HOU	WILLIAM P HOBBY	B737-5	1CM007	8,825
2014	HOU	WILLIAM P HOBBY	B737-5	1CM004	8,052
2014	HOU	WILLIAM P HOBBY	B737-7	3CM031	16,292
2014	HOU	WILLIAM P HOBBY	B737-7	3CM031	29,153
2014	HOU	WILLIAM P HOBBY	B737-7	8CM063	1,215
2014	HOU	WILLIAM P HOBBY	B737-7	3CM032	14,380
2014	HOU	WILLIAM P HOBBY	B737-8	3CM034	10
2014	HOU	WILLIAM P HOBBY	B737-8	8CM051	3,515
2014	HOU	WILLIAM P HOBBY	B737-9	8CM051	2
2014	HOU	WILLIAM P HOBBY	B737-9	8CM051	6
2014	HOU	WILLIAM P HOBBY	B747-2	1PW025	8
2014	HOU	WILLIAM P HOBBY	B757-2	4PW072	6
2014	HOU	WILLIAM P HOBBY	B757-2	4PW072	21
2014	HOU	WILLIAM P HOBBY	B757-3	5RR039	4
2014	HOU	WILLIAM P HOBBY	B757-3	3RR034	1
2014	HOU	WILLIAM P HOBBY	B767-3ER	12PW101	4

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	DC9-1	8PW085	6
2014	HOU	WILLIAM P HOBBY	DC9-2	1PW008	1,434
2014	HOU	WILLIAM P HOBBY	DC9-3	1PW006	8
2014	HOU	WILLIAM P HOBBY	MD90	1IA004	1
2014	HOU	WILLIAM P HOBBY	CL300	6AL006	433
2014	HOU	WILLIAM P HOBBY	CL300	11HN002	1
2014	HOU	WILLIAM P HOBBY	CL600	1TL001	2
2014	HOU	WILLIAM P HOBBY	CL600	5GE084	858
2014	HOU	WILLIAM P HOBBY	CRJ2-ER	5GE084	567
2014	HOU	WILLIAM P HOBBY	CRJ7	8GE112	18
2014	HOU	WILLIAM P HOBBY	CRJ9	8GE110	26
2014	HOU	WILLIAM P HOBBY	CRJ9	8GE103	2,835
2014	HOU	WILLIAM P HOBBY	GLOBALEXPRESS	4BR005	48
2014	HOU	WILLIAM P HOBBY	LEAR24	CJ6106	18
2014	HOU	WILLIAM P HOBBY	LEAR25	CJ6106	113
2014	HOU	WILLIAM P HOBBY	LEAR31	1AS001	542
2014	HOU	WILLIAM P HOBBY	LEAR35	1AS001	545
2014	HOU	WILLIAM P HOBBY	LEAR40	1AS001	211
2014	HOU	WILLIAM P HOBBY	LEAR45	1AS001	1,897
2014	HOU	WILLIAM P HOBBY	LEAR45	1AS001	1
2014	HOU	WILLIAM P HOBBY	LEAR55	1AS002	351
2014	HOU	WILLIAM P HOBBY	LEAR60	TFE731	434
2014	HOU	WILLIAM P HOBBY	J31	TP10UG	54
2014	HOU	WILLIAM P HOBBY	CRJ2	5GE084	1,563
2014	HOU	WILLIAM P HOBBY	CNA172	IO320	197
2014	HOU	WILLIAM P HOBBY	CNA182	IO360	70
2014	HOU	WILLIAM P HOBBY	CNA206	IO360	26
2014	HOU	WILLIAM P HOBBY	CNA310	TIO540	24

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	CNA340	TIO540	23
2014	HOU	WILLIAM P HOBBY	CNA414	TIO540	103
2014	HOU	WILLIAM P HOBBY	CNA421	TIO540	113
2014	HOU	WILLIAM P HOBBY	CNA425	PT6A60	12
2014	HOU	WILLIAM P HOBBY	CNA441	TPE8	127
2014	HOU	WILLIAM P HOBBY	CNA500	1PW035	103
2014	HOU	WILLIAM P HOBBY	CNA501	1PW035	871
2014	HOU	WILLIAM P HOBBY	CNA525	1PW035	396
2014	HOU	WILLIAM P HOBBY	CNA551	1PW036	20
2014	HOU	WILLIAM P HOBBY	CNA560-XL	1PW037	1,154
2014	HOU	WILLIAM P HOBBY	CNA560-XL	1PW037	1
2014	HOU	WILLIAM P HOBBY	CNA560	1PW037	1,723
2014	HOU	WILLIAM P HOBBY	CNA650	1AS002	518
2014	HOU	WILLIAM P HOBBY	CNA680	7PW080	402
2014	HOU	WILLIAM P HOBBY	CNA210	TIO540	53
2014	HOU	WILLIAM P HOBBY	CNA208	P6114A	23
2014	HOU	WILLIAM P HOBBY	CNA550	1PW036	1,290
2014	HOU	WILLIAM P HOBBY	CNA750	6AL022	1,068
2014	HOU	WILLIAM P HOBBY	SR20	IO360	2
2014	HOU	WILLIAM P HOBBY	SR22	TIO540	35
2014	HOU	WILLIAM P HOBBY	CV580	501DA1	1
2014	HOU	WILLIAM P HOBBY	FAL2000EX	7PW080	732
2014	HOU	WILLIAM P HOBBY	FAL2000EX	7PW080	1
2014	HOU	WILLIAM P HOBBY	FAL20-C	1AS002	83
2014	HOU	WILLIAM P HOBBY	FAL50	1AS002	398
2014	HOU	WILLIAM P HOBBY	FAL900	1AS002	191
2014	HOU	WILLIAM P HOBBY	FAL10	1AS001	97
2014	HOU	WILLIAM P HOBBY	DHC8-1	PW120A	9

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	DO328-1	PW119B	528
2014	HOU	WILLIAM P HOBBY	TRIN	TIO540	2
2014	HOU	WILLIAM P HOBBY	TBM700	PT6A64	51
2014	HOU	WILLIAM P HOBBY	ERJ135	6AL011	5
2014	HOU	WILLIAM P HOBBY	ERJ140	6AL011	226
2014	HOU	WILLIAM P HOBBY	ERJ140-LR	6AL011	405
2014	HOU	WILLIAM P HOBBY	ERJ145	6AL006	1,789
2014	HOU	WILLIAM P HOBBY	ERJ145-LR	6AL006	2,430
2014	HOU	WILLIAM P HOBBY	ERJ190	8GE115	1,330
2014	HOU	WILLIAM P HOBBY	ERJ140	6AL012	423
2014	HOU	WILLIAM P HOBBY	ERJ140	6AL020	173
2014	HOU	WILLIAM P HOBBY	ERJ140	6AL017	298
2014	HOU	WILLIAM P HOBBY	ERJ145	4AL003	3,121
2014	HOU	WILLIAM P HOBBY	ERJ145	6AL020	2,605
2014	HOU	WILLIAM P HOBBY	SA226TC	TPE10N	6
2014	HOU	WILLIAM P HOBBY	SA227AT	TPE10N	123
2014	HOU	WILLIAM P HOBBY	GULF100	1AS002	125
2014	HOU	WILLIAM P HOBBY	GULF150	1AS002	253
2014	HOU	WILLIAM P HOBBY	GULF200	7PW077	230
2014	HOU	WILLIAM P HOBBY	GULF200	7PW077	2
2014	HOU	WILLIAM P HOBBY	GULF3	MK511	503
2014	HOU	WILLIAM P HOBBY	GULF3	1RR019	2
2014	HOU	WILLIAM P HOBBY	GULF4	1RR019	1,133
2014	HOU	WILLIAM P HOBBY	GULF2	MK511	1,020
2014	HOU	WILLIAM P HOBBY	GULF5	4BR008	600
2014	HOU	WILLIAM P HOBBY	HS125-1	1AS002	142
2014	HOU	WILLIAM P HOBBY	HS125-4	1AS002	1
2014	HOU	WILLIAM P HOBBY	HS125-7	1AS002	2,390

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	IAI1124	1AS002	759
2014	HOU	WILLIAM P HOBBY	JETSTAR-II/731	1AS002	16
2014	HOU	WILLIAM P HOBBY	MD82	4PW070	29
2014	HOU	WILLIAM P HOBBY	MD11	1GE031	2
2014	HOU	WILLIAM P HOBBY	MU2	TPE10N	155
2014	HOU	WILLIAM P HOBBY	MU300	1PW037	101
2014	HOU	WILLIAM P HOBBY	MOONEY-M20K	TSIO36	52
2014	HOU	WILLIAM P HOBBY	P180	PT6A60	306
2014	HOU	WILLIAM P HOBBY	PC12	PT67B	719
2014	HOU	WILLIAM P HOBBY	PA23	TIO540	2
2014	HOU	WILLIAM P HOBBY	PA24	TIO540	2
2014	HOU	WILLIAM P HOBBY	PA28	IO360	16
2014	HOU	WILLIAM P HOBBY	PA30	IO320	2
2014	HOU	WILLIAM P HOBBY	PA31	TIO540	18
2014	HOU	WILLIAM P HOBBY	PA32	TIO540	20
2014	HOU	WILLIAM P HOBBY	PA34	IO360	26
2014	HOU	WILLIAM P HOBBY	PA42	TPE10N	10
2014	HOU	WILLIAM P HOBBY	PA46T	PT6A42	127
2014	HOU	WILLIAM P HOBBY	PA31T	PT6A28	118
2014	HOU	WILLIAM P HOBBY	BEECH60	TIO540	57
2014	HOU	WILLIAM P HOBBY	BEECH58	TIO540	294
2014	HOU	WILLIAM P HOBBY	BEECH400	1PW037	946
2014	HOU	WILLIAM P HOBBY	HS125-1000	1AS002	66
2014	HOU	WILLIAM P HOBBY	H4000	7PW079	2
2014	HOU	WILLIAM P HOBBY	HS125-8	1AS002	5
2014	HOU	WILLIAM P HOBBY	BEECH100	PT6A28	129
2014	HOU	WILLIAM P HOBBY	PREMIER	1PW035	234
2014	HOU	WILLIAM P HOBBY	BEECH300	P660AG	1,901

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	HOU	WILLIAM P HOBBY	COMMANDER690	TPE10	113
2014	HOU	WILLIAM P HOBBY	SABR40	CF700D	104
2014	AUS	AUSTIN-BERGSTROM INTL	A1B		5
2014	AUS	AUSTIN-BERGSTROM INTL	A300B4-6		684
2014	AUS	AUSTIN-BERGSTROM INTL	A310-3		5
2014	AUS	AUSTIN-BERGSTROM INTL	A319-1		4,504
2014	AUS	AUSTIN-BERGSTROM INTL	A320-2		4,579
2014	AUS	AUSTIN-BERGSTROM INTL	AEROSTAR		35
2014	AUS	AUSTIN-BERGSTROM INTL	B407		37
2014	AUS	AUSTIN-BERGSTROM INTL	B717-2		211
2014	AUS	AUSTIN-BERGSTROM INTL	B727-2		9
2014	AUS	AUSTIN-BERGSTROM INTL	B737-2		4
2014	AUS	AUSTIN-BERGSTROM INTL	B737-3		7,301
2014	AUS	AUSTIN-BERGSTROM INTL	B737-4		32
2014	AUS	AUSTIN-BERGSTROM INTL	B737-5		3,374
2014	AUS	AUSTIN-BERGSTROM INTL	B737-7		15,480
2014	AUS	AUSTIN-BERGSTROM INTL	B737-8		6,906
2014	AUS	AUSTIN-BERGSTROM INTL	B737-9		1,405
2014	AUS	AUSTIN-BERGSTROM INTL	B747-4		27
2014	AUS	AUSTIN-BERGSTROM INTL	B747-8I		4
2014	AUS	AUSTIN-BERGSTROM INTL	B757-2		946
2014	AUS	AUSTIN-BERGSTROM INTL	B757-3		12
2014	AUS	AUSTIN-BERGSTROM INTL	B757-3		2
2014	AUS	AUSTIN-BERGSTROM INTL	B767-3		18
2014	AUS	AUSTIN-BERGSTROM INTL	B777-2		16
2014	AUS	AUSTIN-BERGSTROM INTL	B787-8		392
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH100		18
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH1900-C		7

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH200		1,832
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH300		774
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH300		280
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH36		2
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH36		120
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH36		131
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH36		477
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH36		11
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH400		733
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH55		459
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH58		241
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH60		23
2014	AUS	AUSTIN-BERGSTROM INTL	BEECH90		641
2014	AUS	AUSTIN-BERGSTROM INTL	BELL206		28
2014	AUS	AUSTIN-BERGSTROM INTL	CL300		606
2014	AUS	AUSTIN-BERGSTROM INTL	CL600		632
2014	AUS	AUSTIN-BERGSTROM INTL	CN235-1		2
2014	AUS	AUSTIN-BERGSTROM INTL	CNA150		16
2014	AUS	AUSTIN-BERGSTROM INTL	CNA150		106
2014	AUS	AUSTIN-BERGSTROM INTL	CNA172		1,732
2014	AUS	AUSTIN-BERGSTROM INTL	CNA172		9
2014	AUS	AUSTIN-BERGSTROM INTL	CNA182		20
2014	AUS	AUSTIN-BERGSTROM INTL	CNA182		432
2014	AUS	AUSTIN-BERGSTROM INTL	CNA182		12
2014	AUS	AUSTIN-BERGSTROM INTL	CNA182		5
2014	AUS	AUSTIN-BERGSTROM INTL	CNA182		2
2014	AUS	AUSTIN-BERGSTROM INTL	CNA206		5
2014	AUS	AUSTIN-BERGSTROM INTL	CNA206		353

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	CNA206		214
2014	AUS	AUSTIN-BERGSTROM INTL	CNA208		2,301
2014	AUS	AUSTIN-BERGSTROM INTL	CNA210		177
2014	AUS	AUSTIN-BERGSTROM INTL	CNA210		18
2014	AUS	AUSTIN-BERGSTROM INTL	CNA310		105
2014	AUS	AUSTIN-BERGSTROM INTL	CNA337		2
2014	AUS	AUSTIN-BERGSTROM INTL	CNA337		27
2014	AUS	AUSTIN-BERGSTROM INTL	CNA340		35
2014	AUS	AUSTIN-BERGSTROM INTL	CNA402		27
2014	AUS	AUSTIN-BERGSTROM INTL	CNA414		142
2014	AUS	AUSTIN-BERGSTROM INTL	CNA421		237
2014	AUS	AUSTIN-BERGSTROM INTL	CNA425		90
2014	AUS	AUSTIN-BERGSTROM INTL	CNA441		74
2014	AUS	AUSTIN-BERGSTROM INTL	CNA500		53
2014	AUS	AUSTIN-BERGSTROM INTL	CNA500		2
2014	AUS	AUSTIN-BERGSTROM INTL	CNA501		135
2014	AUS	AUSTIN-BERGSTROM INTL	CNA501		209
2014	AUS	AUSTIN-BERGSTROM INTL	CNA525		381
2014	AUS	AUSTIN-BERGSTROM INTL	CNA525		317
2014	AUS	AUSTIN-BERGSTROM INTL	CNA525		165
2014	AUS	AUSTIN-BERGSTROM INTL	CNA525		778
2014	AUS	AUSTIN-BERGSTROM INTL	CNA525		2
2014	AUS	AUSTIN-BERGSTROM INTL	CNA550		434
2014	AUS	AUSTIN-BERGSTROM INTL	CNA551		21
2014	AUS	AUSTIN-BERGSTROM INTL	CNA560		926
2014	AUS	AUSTIN-BERGSTROM INTL	CNA560-XL		1,553
2014	AUS	AUSTIN-BERGSTROM INTL	CNA650		383
2014	AUS	AUSTIN-BERGSTROM INTL	CNA680		505

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	CNA750		788
2014	AUS	AUSTIN-BERGSTROM INTL	COMMANDER500		1,006
2014	AUS	AUSTIN-BERGSTROM INTL	COMMANDER690		14
2014	AUS	AUSTIN-BERGSTROM INTL	COMMANDER980		21
2014	AUS	AUSTIN-BERGSTROM INTL	CRJ1		12
2014	AUS	AUSTIN-BERGSTROM INTL	CRJ2		689
2014	AUS	AUSTIN-BERGSTROM INTL	CRJ7		7,213
2014	AUS	AUSTIN-BERGSTROM INTL	CRJ7		2
2014	AUS	AUSTIN-BERGSTROM INTL	CRJ9-ER		5,681
2014	AUS	AUSTIN-BERGSTROM INTL	DC10-3		475
2014	AUS	AUSTIN-BERGSTROM INTL	DC9-3		5
2014	AUS	AUSTIN-BERGSTROM INTL	DHC6-1		2
2014	AUS	AUSTIN-BERGSTROM INTL	DHC8-1		2
2014	AUS	AUSTIN-BERGSTROM INTL	DO328-1		2
2014	AUS	AUSTIN-BERGSTROM INTL	DO328JET		28
2014	AUS	AUSTIN-BERGSTROM INTL	DO328JET		4
2014	AUS	AUSTIN-BERGSTROM INTL	ECLIPSE500		418
2014	AUS	AUSTIN-BERGSTROM INTL	ECLIPSE500		549
2014	AUS	AUSTIN-BERGSTROM INTL	ECLIPSE500		140
2014	AUS	AUSTIN-BERGSTROM INTL	EMB120		2
2014	AUS	AUSTIN-BERGSTROM INTL	ERJ135		156
2014	AUS	AUSTIN-BERGSTROM INTL	ERJ145		613
2014	AUS	AUSTIN-BERGSTROM INTL	ERJ145-XR		496
2014	AUS	AUSTIN-BERGSTROM INTL	ERJ170		4,683
2014	AUS	AUSTIN-BERGSTROM INTL	ERJ190		1,337
2014	AUS	AUSTIN-BERGSTROM INTL	F27-50		2
2014	AUS	AUSTIN-BERGSTROM INTL	FAL10		30
2014	AUS	AUSTIN-BERGSTROM INTL	FAL2000		487

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	FAL20-C		89
2014	AUS	AUSTIN-BERGSTROM INTL	FAL20-C		28
2014	AUS	AUSTIN-BERGSTROM INTL	FAL50		363
2014	AUS	AUSTIN-BERGSTROM INTL	FAL7X		20
2014	AUS	AUSTIN-BERGSTROM INTL	FAL900		368
2014	AUS	AUSTIN-BERGSTROM INTL	GLOBAL5000		43
2014	AUS	AUSTIN-BERGSTROM INTL	GLOBALEXPRESS		291
2014	AUS	AUSTIN-BERGSTROM INTL	GULF100		2
2014	AUS	AUSTIN-BERGSTROM INTL	GULF150		135
2014	AUS	AUSTIN-BERGSTROM INTL	GULF2		5
2014	AUS	AUSTIN-BERGSTROM INTL	GULF200		4
2014	AUS	AUSTIN-BERGSTROM INTL	GULF280		99
2014	AUS	AUSTIN-BERGSTROM INTL	GULF3		44
2014	AUS	AUSTIN-BERGSTROM INTL	GULF4		739
2014	AUS	AUSTIN-BERGSTROM INTL	GULF450		21
2014	AUS	AUSTIN-BERGSTROM INTL	GULF5		308
2014	AUS	AUSTIN-BERGSTROM INTL	GULF550		7
2014	AUS	AUSTIN-BERGSTROM INTL	GULF650		5
2014	AUS	AUSTIN-BERGSTROM INTL	GULF650		74
2014	AUS	AUSTIN-BERGSTROM INTL	H4000		25
2014	AUS	AUSTIN-BERGSTROM INTL	HS125-1		14
2014	AUS	AUSTIN-BERGSTROM INTL	HS125-7		875
2014	AUS	AUSTIN-BERGSTROM INTL	HS125-7		21
2014	AUS	AUSTIN-BERGSTROM INTL	IAI1124		64
2014	AUS	AUSTIN-BERGSTROM INTL	IAI1125		73
2014	AUS	AUSTIN-BERGSTROM INTL	IAI1126		384
2014	AUS	AUSTIN-BERGSTROM INTL	IL114		2
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR25		18

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR31		119
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR35		179
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR40		260
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR45		971
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR55		131
2014	AUS	AUSTIN-BERGSTROM INTL	LEAR60		507
2014	AUS	AUSTIN-BERGSTROM INTL	MD11		78
2014	AUS	AUSTIN-BERGSTROM INTL	MD11		301
2014	AUS	AUSTIN-BERGSTROM INTL	MD82		5,264
2014	AUS	AUSTIN-BERGSTROM INTL	MD83		3,716
2014	AUS	AUSTIN-BERGSTROM INTL	MD88		1,513
2014	AUS	AUSTIN-BERGSTROM INTL	MD90		1,660
2014	AUS	AUSTIN-BERGSTROM INTL	MIL-JCOM		7
2014	AUS	AUSTIN-BERGSTROM INTL	MIL-T38		64
2014	AUS	AUSTIN-BERGSTROM INTL	MOONEY-M20K		349
2014	AUS	AUSTIN-BERGSTROM INTL	MU2		37
2014	AUS	AUSTIN-BERGSTROM INTL	MU300		73
2014	AUS	AUSTIN-BERGSTROM INTL	P180		34
2014	AUS	AUSTIN-BERGSTROM INTL	PA23		11
2014	AUS	AUSTIN-BERGSTROM INTL	PA24		53
2014	AUS	AUSTIN-BERGSTROM INTL	PA27		11
2014	AUS	AUSTIN-BERGSTROM INTL	PA28		454
2014	AUS	AUSTIN-BERGSTROM INTL	PA28		4
2014	AUS	AUSTIN-BERGSTROM INTL	PA28		44
2014	AUS	AUSTIN-BERGSTROM INTL	PA30		12
2014	AUS	AUSTIN-BERGSTROM INTL	PA31		55
2014	AUS	AUSTIN-BERGSTROM INTL	PA32		138
2014	AUS	AUSTIN-BERGSTROM INTL	PA32		2

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	PA32		9
2014	AUS	AUSTIN-BERGSTROM INTL	PA34		18
2014	AUS	AUSTIN-BERGSTROM INTL	PA34		5
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		37
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		4
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		2
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		14
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		53
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		2
2014	AUS	AUSTIN-BERGSTROM INTL	PA42		2
2014	AUS	AUSTIN-BERGSTROM INTL	PA46-500		257
2014	AUS	AUSTIN-BERGSTROM INTL	PA46T		345
2014	AUS	AUSTIN-BERGSTROM INTL	PC12		1,281
2014	AUS	AUSTIN-BERGSTROM INTL	PREMIER		131
2014	AUS	AUSTIN-BERGSTROM INTL	R44		73
2014	AUS	AUSTIN-BERGSTROM INTL	S76		83
2014	AUS	AUSTIN-BERGSTROM INTL	SA226		99
2014	AUS	AUSTIN-BERGSTROM INTL	SA227AT		21
2014	AUS	AUSTIN-BERGSTROM INTL	SA26		41
2014	AUS	AUSTIN-BERGSTROM INTL	SA350		995
2014	AUS	AUSTIN-BERGSTROM INTL	SAAB2000		30
2014	AUS	AUSTIN-BERGSTROM INTL	SAAB340-B		4
2014	AUS	AUSTIN-BERGSTROM INTL	SABR40		12
2014	AUS	AUSTIN-BERGSTROM INTL	SD360-1		374
2014	AUS	AUSTIN-BERGSTROM INTL	SR20		19
2014	AUS	AUSTIN-BERGSTROM INTL	SR22		946
2014	AUS	AUSTIN-BERGSTROM INTL	SUPERGUPPY		2
2014	AUS	AUSTIN-BERGSTROM INTL	TBM700		145

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AUS	AUSTIN-BERGSTROM INTL	TBM-850		51
2014	SAT	SAN ANTONIO INTL	A109		114
2014	SAT	SAN ANTONIO INTL	A1B		10
2014	SAT	SAN ANTONIO INTL	A300B4-6		575
2014	SAT	SAN ANTONIO INTL	A310-2		401
2014	SAT	SAN ANTONIO INTL	A318-1		2
2014	SAT	SAN ANTONIO INTL	A319-1		1,221
2014	SAT	SAN ANTONIO INTL	A320-1		1,591
2014	SAT	SAN ANTONIO INTL	A321-1		4
2014	SAT	SAN ANTONIO INTL	AEROSTAR		25
2014	SAT	SAN ANTONIO INTL	ATR42-2		4
2014	SAT	SAN ANTONIO INTL	B407		4
2014	SAT	SAN ANTONIO INTL	B707-3		1
2014	SAT	SAN ANTONIO INTL	B717-2		143
2014	SAT	SAN ANTONIO INTL	B727-2		9
2014	SAT	SAN ANTONIO INTL	B737-2		2
2014	SAT	SAN ANTONIO INTL	B737-3		3,076
2014	SAT	SAN ANTONIO INTL	B737-4		525
2014	SAT	SAN ANTONIO INTL	B737-5		1,269
2014	SAT	SAN ANTONIO INTL	B737-7		12,374
2014	SAT	SAN ANTONIO INTL	B737-8		1,920
2014	SAT	SAN ANTONIO INTL	B737-9		559
2014	SAT	SAN ANTONIO INTL	B747-4		5
2014	SAT	SAN ANTONIO INTL	B757-2		1,819
2014	SAT	SAN ANTONIO INTL	B757-2		1
2014	SAT	SAN ANTONIO INTL	B757-3		36
2014	SAT	SAN ANTONIO INTL	B767-2		6
2014	SAT	SAN ANTONIO INTL	B767-3		11

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	B777-3		1
2014	SAT	SAN ANTONIO INTL	BEECH100		17
2014	SAT	SAN ANTONIO INTL	BEECH18		2
2014	SAT	SAN ANTONIO INTL	BEECH1900-C		783
2014	SAT	SAN ANTONIO INTL	BEECH1900-C		1
2014	SAT	SAN ANTONIO INTL	BEECH200		1,336
2014	SAT	SAN ANTONIO INTL	BEECH300		540
2014	SAT	SAN ANTONIO INTL	BEECH36		1
2014	SAT	SAN ANTONIO INTL	BEECH36		1
2014	SAT	SAN ANTONIO INTL	BEECH36		5
2014	SAT	SAN ANTONIO INTL	BEECH36		226
2014	SAT	SAN ANTONIO INTL	BEECH36		32
2014	SAT	SAN ANTONIO INTL	BEECH36		119
2014	SAT	SAN ANTONIO INTL	BEECH36		618
2014	SAT	SAN ANTONIO INTL	BEECH400		674
2014	SAT	SAN ANTONIO INTL	BEECH55		143
2014	SAT	SAN ANTONIO INTL	BEECH58		208
2014	SAT	SAN ANTONIO INTL	BEECH60		5
2014	SAT	SAN ANTONIO INTL	BEECH90		1
2014	SAT	SAN ANTONIO INTL	BEECH90		6
2014	SAT	SAN ANTONIO INTL	BEECH90		1,163
2014	SAT	SAN ANTONIO INTL	BEECH90		68
2014	SAT	SAN ANTONIO INTL	BEECH99		548
2014	SAT	SAN ANTONIO INTL	CASA295		2
2014	SAT	SAN ANTONIO INTL	CL300		681
2014	SAT	SAN ANTONIO INTL	CL600		340
2014	SAT	SAN ANTONIO INTL	CN235-1		6
2014	SAT	SAN ANTONIO INTL	CNA150		2

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	CNA150		1
2014	SAT	SAN ANTONIO INTL	CNA150		41
2014	SAT	SAN ANTONIO INTL	CNA172		1
2014	SAT	SAN ANTONIO INTL	CNA172		292
2014	SAT	SAN ANTONIO INTL	CNA172		1
2014	SAT	SAN ANTONIO INTL	CNA172		15
2014	SAT	SAN ANTONIO INTL	CNA172		7
2014	SAT	SAN ANTONIO INTL	CNA182		299
2014	SAT	SAN ANTONIO INTL	CNA182		1
2014	SAT	SAN ANTONIO INTL	CNA182		11
2014	SAT	SAN ANTONIO INTL	CNA206		2
2014	SAT	SAN ANTONIO INTL	CNA206		214
2014	SAT	SAN ANTONIO INTL	CNA208		1,148
2014	SAT	SAN ANTONIO INTL	CNA210		305
2014	SAT	SAN ANTONIO INTL	CNA310		107
2014	SAT	SAN ANTONIO INTL	CNA337		4
2014	SAT	SAN ANTONIO INTL	CNA340		76
2014	SAT	SAN ANTONIO INTL	CNA402		4
2014	SAT	SAN ANTONIO INTL	CNA402		5
2014	SAT	SAN ANTONIO INTL	CNA404		1
2014	SAT	SAN ANTONIO INTL	CNA414		335
2014	SAT	SAN ANTONIO INTL	CNA421		361
2014	SAT	SAN ANTONIO INTL	CNA425		46
2014	SAT	SAN ANTONIO INTL	CNA441		48
2014	SAT	SAN ANTONIO INTL	CNA500		88
2014	SAT	SAN ANTONIO INTL	CNA501		175
2014	SAT	SAN ANTONIO INTL	CNA501		497
2014	SAT	SAN ANTONIO INTL	CNA525		282

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	CNA525		194
2014	SAT	SAN ANTONIO INTL	CNA525		321
2014	SAT	SAN ANTONIO INTL	CNA525		790
2014	SAT	SAN ANTONIO INTL	CNA550		947
2014	SAT	SAN ANTONIO INTL	CNA551		7
2014	SAT	SAN ANTONIO INTL	CNA560		622
2014	SAT	SAN ANTONIO INTL	CNA560-XL		1,123
2014	SAT	SAN ANTONIO INTL	CNA650		281
2014	SAT	SAN ANTONIO INTL	CNA680		473
2014	SAT	SAN ANTONIO INTL	CNA750		610
2014	SAT	SAN ANTONIO INTL	COMMANDER500		206
2014	SAT	SAN ANTONIO INTL	COMMANDER680		1
2014	SAT	SAN ANTONIO INTL	COMMANDER690		29
2014	SAT	SAN ANTONIO INTL	COMMANDER700		2
2014	SAT	SAN ANTONIO INTL	COMMANDER980		77
2014	SAT	SAN ANTONIO INTL	CRJ1		4
2014	SAT	SAN ANTONIO INTL	CRJ2		283
2014	SAT	SAN ANTONIO INTL	CRJ7		5,500
2014	SAT	SAN ANTONIO INTL	CRJ9		3,584
2014	SAT	SAN ANTONIO INTL	CV580		4
2014	SAT	SAN ANTONIO INTL	DC10-1		132
2014	SAT	SAN ANTONIO INTL	DC6		1
2014	SAT	SAN ANTONIO INTL	DC9-1		12
2014	SAT	SAN ANTONIO INTL	DC9-3		5
2014	SAT	SAN ANTONIO INTL	DO328-1		5
2014	SAT	SAN ANTONIO INTL	DO328JET		28
2014	SAT	SAN ANTONIO INTL	ECLIPSE500		4
2014	SAT	SAN ANTONIO INTL	ECLIPSE500		219

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	EMB110		2
2014	SAT	SAN ANTONIO INTL	EMBLEG		635
2014	SAT	SAN ANTONIO INTL	EMBLEG		267
2014	SAT	SAN ANTONIO INTL	ERJ145		947
2014	SAT	SAN ANTONIO INTL	ERJ145-ER		598
2014	SAT	SAN ANTONIO INTL	ERJ170		2,817
2014	SAT	SAN ANTONIO INTL	ERJ190		849
2014	SAT	SAN ANTONIO INTL	ERJLEG		59
2014	SAT	SAN ANTONIO INTL	F27-50		2
2014	SAT	SAN ANTONIO INTL	FAL10		30
2014	SAT	SAN ANTONIO INTL	FAL2000		368
2014	SAT	SAN ANTONIO INTL	FAL20-C		86
2014	SAT	SAN ANTONIO INTL	FAL50		211
2014	SAT	SAN ANTONIO INTL	FAL7X		36
2014	SAT	SAN ANTONIO INTL	FAL900		342
2014	SAT	SAN ANTONIO INTL	GLOBAL5000		24
2014	SAT	SAN ANTONIO INTL	GLOBALEXPRESS		40
2014	SAT	SAN ANTONIO INTL	GULF1		29
2014	SAT	SAN ANTONIO INTL	GULF150		73
2014	SAT	SAN ANTONIO INTL	GULF2		17
2014	SAT	SAN ANTONIO INTL	GULF280		19
2014	SAT	SAN ANTONIO INTL	GULF3		13
2014	SAT	SAN ANTONIO INTL	GULF4		515
2014	SAT	SAN ANTONIO INTL	GULF5		388
2014	SAT	SAN ANTONIO INTL	H4000		63
2014	SAT	SAN ANTONIO INTL	HS125-1		17
2014	SAT	SAN ANTONIO INTL	HS125-1000		18
2014	SAT	SAN ANTONIO INTL	HS125-8		999

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	IAI1124		148
2014	SAT	SAN ANTONIO INTL	IAI1125		38
2014	SAT	SAN ANTONIO INTL	IAI1126		161
2014	SAT	SAN ANTONIO INTL	J31		4
2014	SAT	SAN ANTONIO INTL	LANCE360		2
2014	SAT	SAN ANTONIO INTL	LEAR24		12
2014	SAT	SAN ANTONIO INTL	LEAR25		76
2014	SAT	SAN ANTONIO INTL	LEAR31		205
2014	SAT	SAN ANTONIO INTL	LEAR35		223
2014	SAT	SAN ANTONIO INTL	LEAR40		111
2014	SAT	SAN ANTONIO INTL	LEAR45		528
2014	SAT	SAN ANTONIO INTL	LEAR55		108
2014	SAT	SAN ANTONIO INTL	LEAR60		272
2014	SAT	SAN ANTONIO INTL	LEAR60		1
2014	SAT	SAN ANTONIO INTL	MD11		640
2014	SAT	SAN ANTONIO INTL	MD81		2
2014	SAT	SAN ANTONIO INTL	MD82		3,573
2014	SAT	SAN ANTONIO INTL	MD83		1,793
2014	SAT	SAN ANTONIO INTL	MD88		247
2014	SAT	SAN ANTONIO INTL	MD90		442
2014	SAT	SAN ANTONIO INTL	MIL-C130		17
2014	SAT	SAN ANTONIO INTL	MIL-C130		9
2014	SAT	SAN ANTONIO INTL	MIL-F15		4
2014	SAT	SAN ANTONIO INTL	MIL-F16		2
2014	SAT	SAN ANTONIO INTL	MIL-F18		7
2014	SAT	SAN ANTONIO INTL	MIL-JCOM		5
2014	SAT	SAN ANTONIO INTL	MIL-KC135		9
2014	SAT	SAN ANTONIO INTL	MIL-SH60		23

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	MIL-T37		502
2014	SAT	SAN ANTONIO INTL	MIL-T38		11
2014	SAT	SAN ANTONIO INTL	MIL-U10		7
2014	SAT	SAN ANTONIO INTL	MIL-UH60		7
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		13
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		5
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		1
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		98
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		35
2014	SAT	SAN ANTONIO INTL	MOONEY-M20K		4
2014	SAT	SAN ANTONIO INTL	MU2		90
2014	SAT	SAN ANTONIO INTL	MU300		306
2014	SAT	SAN ANTONIO INTL	P180		120
2014	SAT	SAN ANTONIO INTL	PA23		18
2014	SAT	SAN ANTONIO INTL	PA24		12
2014	SAT	SAN ANTONIO INTL	PA27		4
2014	SAT	SAN ANTONIO INTL	PA27		1
2014	SAT	SAN ANTONIO INTL	PA28		1
2014	SAT	SAN ANTONIO INTL	PA28		52
2014	SAT	SAN ANTONIO INTL	PA28		1
2014	SAT	SAN ANTONIO INTL	PA28		13
2014	SAT	SAN ANTONIO INTL	PA28		40
2014	SAT	SAN ANTONIO INTL	PA30		24
2014	SAT	SAN ANTONIO INTL	PA31		146
2014	SAT	SAN ANTONIO INTL	PA31T		59
2014	SAT	SAN ANTONIO INTL	PA31T		94
2014	SAT	SAN ANTONIO INTL	PA31T		1
2014	SAT	SAN ANTONIO INTL	PA32		45

Year	Airport Code	Facility Name	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	SAT	SAN ANTONIO INTL	PA32		189
2014	SAT	SAN ANTONIO INTL	PA34		35
2014	SAT	SAN ANTONIO INTL	PA42		1
2014	SAT	SAN ANTONIO INTL	PA42		105
2014	SAT	SAN ANTONIO INTL	PA42		6
2014	SAT	SAN ANTONIO INTL	PA46-500		318
2014	SAT	SAN ANTONIO INTL	PA46T		238
2014	SAT	SAN ANTONIO INTL	PC12		1,147
2014	SAT	SAN ANTONIO INTL	PREMIER		59
2014	SAT	SAN ANTONIO INTL	S76		2
2014	SAT	SAN ANTONIO INTL	SA226		394
2014	SAT	SAN ANTONIO INTL	SA226TC		230
2014	SAT	SAN ANTONIO INTL	SA26		71
2014	SAT	SAN ANTONIO INTL	SAAB2000		7
2014	SAT	SAN ANTONIO INTL	SABR60		53
2014	SAT	SAN ANTONIO INTL	SABR60		1
2014	SAT	SAN ANTONIO INTL	SD330		1
2014	SAT	SAN ANTONIO INTL	SD360-1		2
2014	SAT	SAN ANTONIO INTL	SR20		99
2014	SAT	SAN ANTONIO INTL	SR22		638
2014	SAT	SAN ANTONIO INTL	SSJ100-95		18
2014	SAT	SAN ANTONIO INTL	TBM700		226
2014	SAT	SAN ANTONIO INTL	TBM-850		203

Appendix C
2014 T-100 Activity Dataset

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	ACT	WACO RGNL	McLennan	48309	A319-1	1IA003	1
2014	ACT	WACO RGNL	McLennan	48309	A320-1	1CM008	1
2014	ACT	WACO RGNL	McLennan	48309	B737-4	1CM006	1
2014	ACT	WACO RGNL	McLennan	48309	B737-7	3CM031	4
2014	ACT	WACO RGNL	McLennan	48309	B737-8	8CM051	4
2014	ACT	WACO RGNL	McLennan	48309	B737-9	8CM051	3
2014	ACT	WACO RGNL	McLennan	48309	B757-2	4PW072	2
2014	ACT	WACO RGNL	McLennan	48309	B757-3	3RR034	3
2014	ACT	WACO RGNL	McLennan	48309	CRJ2-ER	5GE084	42
2014	ACT	WACO RGNL	McLennan	48309	CV580	501DA1	1
2014	ACT	WACO RGNL	McLennan	48309	DC9-2	1PW008	18
2014	ACT	WACO RGNL	McLennan	48309	ERJ135	6AL011	8
2014	ACT	WACO RGNL	McLennan	48309	ERJ140	6AL011	280
2014	ACT	WACO RGNL	McLennan	48309	ERJ145	6AL006	1,352
2014	ACT	WACO RGNL	McLennan	48309	ERJ170	8GE108	1
2014	ACT	WACO RGNL	McLennan	48309	ERJ175	8GE108	3
2014	ACT	WACO RGNL	McLennan	48309	ERJ190	8GE115	7
2014	ADS	ADDISON	Dallas	48113	B737-1	1PW006	3
2014	ADS	ADDISON	Dallas	48113	DC9-2	1PW008	14
2014	ADS	ADDISON	Dallas	48113	DC9-3	1PW006	48
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	A300B4-6	1PW048	703
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	A310-2	2GE037	197
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	A319-1	1IA003	3
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	AN124	1ZM001	8
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	ATR42-4	PW121	343
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	ATR72-2	PW124B	570
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	B727-2	1PW006	1
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	B737-4	1CM006	6
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	B737-7	3CM031	2
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	B737-8	8CM051	13
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	B757-2	4PW072	582
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	BEECH18	R1820	943
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	CNA208	P6114A	740
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	DC10-1	1GE001	354
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	DC10-3	3GE074	61
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	DC9-2	1PW008	14
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	DC9-3	1PW006	4
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	ERJ145	6AL006	1
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	FAL20-C	CF700D	2

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	HS125-8	1AS002	1
2014	AFW	FORT WORTH ALLIANCE	Tarrant	48439	MD11	1PW052	15
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	A320-1	1CM008	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ATR42-4	PW121	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B727-2	1PW006	2
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-3	1CM004	961
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-4	1CM006	7
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-5	1CM004	778
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-7	3CM031	1,087
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-8	8CM051	24
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B737-9	8CM051	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	B757-2	4PW072	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	BEECH18	R1820	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	CRJ2-ER	5GE084	1,355
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	CRJ7	8GE112	82
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	DC9-2	1PW008	17
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	DC9-3	1PW006	1
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ERJ135	6AL011	132
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ERJ140	6AL011	241
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ERJ145	6AL006	2,434
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ERJ190	8GE115	7
2014	AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	LEAR45	1AS001	2
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	AN124	1ZM001	3
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	B737-4	1CM006	2
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	B737-8	8CM051	4
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	B747-4	1PW041	1
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	B767-3ER	12PW101	1
2014	BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	DC9-2	1PW008	1
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	B737-8	8CM051	7

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	B737-9	8CM051	1
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	B757-3	3RR034	1
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	CRJ2-ER	5GE084	406
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	ERJ135	6AL011	14
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	ERJ140	6AL011	560
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	ERJ145	6AL006	95
2014	BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	GULF200	7PW077	1
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	B727-1	4PW070	4
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	B727-2	1PW006	91
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	B737-3	1CM004	12
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	B737-4	1CM006	206
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	B767-2ER	1GE012	1
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	CRJ2-ER	5GE084	914
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	CRJ7	8GE112	2
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	CV580	501DA1	47
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	DC9-2	1PW008	397
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	DC9-3	1PW006	38
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	ERJ135	6AL011	286
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	ERJ140	6AL011	12
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	ERJ145	6AL006	1,145
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	FAL20-C	CF700D	2
2014	BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	GULF200	7PW077	1
2014	BWD	BROWNWOOD RGNL	Brown	48049	CNA208	P6114A	260
2014	CLL	EASTERWOOD FIELD	Brazos	48041	B737-7	3CM031	1
2014	CLL	EASTERWOOD FIELD	Brazos	48041	B737-8	8CM051	6
2014	CLL	EASTERWOOD FIELD	Brazos	48041	B737-9	8CM051	5
2014	CLL	EASTERWOOD FIELD	Brazos	48041	B757-2	4PW072	4
2014	CLL	EASTERWOOD FIELD	Brazos	48041	CNA208	P6114A	197
2014	CLL	EASTERWOOD FIELD	Brazos	48041	CRJ2-ER	5GE084	136
2014	CLL	EASTERWOOD FIELD	Brazos	48041	CRJ7	8GE112	2
2014	CLL	EASTERWOOD FIELD	Brazos	48041	DC9-2	1PW008	27

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	CLL	EASTERWOOD FIELD	Brazos	48041	ERJ135	6AL011	717
2014	CLL	EASTERWOOD FIELD	Brazos	48041	ERJ140	6AL011	757
2014	CLL	EASTERWOOD FIELD	Brazos	48041	ERJ145	6AL006	1,042
2014	DRT	DEL RIO INTL	Val Verde	48465	B737-3	1CM004	8
2014	DRT	DEL RIO INTL	Val Verde	48465	CNA208	P6114A	510
2014	DRT	DEL RIO INTL	Val Verde	48465	CV580	501DA1	6
2014	DRT	DEL RIO INTL	Val Verde	48465	DC9-2	1PW008	1
2014	DRT	DEL RIO INTL	Val Verde	48465	DC9-3	1PW006	58
2014	DRT	DEL RIO INTL	Val Verde	48465	FAL20-C	CF700D	6
2014	ELP	EL PASO INTL	El Paso	48141	A300B4-6	1PW048	503
2014	ELP	EL PASO INTL	El Paso	48141	A310-2	2GE037	2
2014	ELP	EL PASO INTL	El Paso	48141	A319-1	1IA003	950
2014	ELP	EL PASO INTL	El Paso	48141	A320-1	1CM008	73
2014	ELP	EL PASO INTL	El Paso	48141	A321-1	3CM024	1
2014	ELP	EL PASO INTL	El Paso	48141	B727-2	1PW006	24
2014	ELP	EL PASO INTL	El Paso	48141	B737-3	1CM004	2,485
2014	ELP	EL PASO INTL	El Paso	48141	B737-4	1CM006	17
2014	ELP	EL PASO INTL	El Paso	48141	B737-5	1CM004	2,648
2014	ELP	EL PASO INTL	El Paso	48141	B737-7	3CM031	3,364
2014	ELP	EL PASO INTL	El Paso	48141	B737-8	8CM051	38
2014	ELP	EL PASO INTL	El Paso	48141	B737-9	8CM051	2
2014	ELP	EL PASO INTL	El Paso	48141	B747-4	1PW041	1
2014	ELP	EL PASO INTL	El Paso	48141	B757-2	4PW072	227
2014	ELP	EL PASO INTL	El Paso	48141	B767-2ER	1GE012	43
2014	ELP	EL PASO INTL	El Paso	48141	B767-3ER	12PW101	2
2014	ELP	EL PASO INTL	El Paso	48141	CRJ2-ER	5GE084	1,779
2014	ELP	EL PASO INTL	El Paso	48141	CRJ7	8GE112	783
2014	ELP	EL PASO INTL	El Paso	48141	CRJ9	8GE110	1,276
2014	ELP	EL PASO INTL	El Paso	48141	CV580	501DA1	254
2014	ELP	EL PASO INTL	El Paso	48141	DC10-1	1GE001	213
2014	ELP	EL PASO INTL	El Paso	48141	DC10-3	3GE074	30
2014	ELP	EL PASO INTL	El Paso	48141	DC9-2	1PW008	2,517
2014	ELP	EL PASO INTL	El Paso	48141	DC9-3	1PW006	47
2014	ELP	EL PASO INTL	El Paso	48141	EMB120	PW118B	2
2014	ELP	EL PASO INTL	El Paso	48141	ERJ135	6AL011	53
2014	ELP	EL PASO INTL	El Paso	48141	ERJ145	6AL006	2,492
2014	ELP	EL PASO INTL	El Paso	48141	ERJ175	8GE108	297

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	ELP	EL PASO INTL	El Paso	48141	ERJ190	8GE115	12
2014	ELP	EL PASO INTL	El Paso	48141	FAL20-C	CF700D	37
2014	ELP	EL PASO INTL	El Paso	48141	LEAR45	1AS001	1
2014	ELP	EL PASO INTL	El Paso	48141	MD11	1PW052	318
2014	ELP	EL PASO INTL	El Paso	48141	MD90	1IA004	231
2014	ELP	EL PASO INTL	El Paso	48141	MIL-C130	T56A15	1
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	A319-1	1IA003	2
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	B737-1	1PW006	2
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	B737-4	1CM006	1
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	CL300	11HN002	2
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	DC9-2	1PW008	1
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	ERJ145	6AL006	1
2014	FTW	FORT WORTH MEACHAM INTL	Tarrant	48439	LEAR45	1AS001	1
2014	GGG	EAST TEXAS RGNL	Gregg	48183	ATR72-2	PW124B	1
2014	GGG	EAST TEXAS RGNL	Gregg	48183	BEECH18	R1820	1
2014	GKY	ARLINGTON MUNI	Tarrant	48439	B737-3	1CM004	31
2014	GKY	ARLINGTON MUNI	Tarrant	48439	CV580	501DA1	16
2014	GKY	ARLINGTON MUNI	Tarrant	48439	DC9-3	1PW006	103
2014	GKY	ARLINGTON MUNI	Tarrant	48439	FAL20-C	CF700D	17
2014	GKY	ARLINGTON MUNI	Tarrant	48439	MIL-C130	T56A15	13
2014	GRK	ROBERT GRAY AAF	Bell	48027	B737-7	3CM031	5
2014	GRK	ROBERT GRAY AAF	Bell	48027	B737-8	8CM051	9
2014	GRK	ROBERT GRAY AAF	Bell	48027	B757-2	4PW072	1
2014	GRK	ROBERT GRAY AAF	Bell	48027	B767-2ER	1GE012	1
2014	GRK	ROBERT GRAY AAF	Bell	48027	CRJ2-ER	5GE084	353
2014	GRK	ROBERT GRAY AAF	Bell	48027	CRJ7	8GE112	339
2014	GRK	ROBERT GRAY AAF	Bell	48027	CRJ9	8GE110	348
2014	GRK	ROBERT GRAY AAF	Bell	48027	DC9-2	1PW008	11
2014	GRK	ROBERT GRAY AAF	Bell	48027	ERJ135	6AL011	705
2014	GRK	ROBERT GRAY AAF	Bell	48027	ERJ140	6AL011	315
2014	GRK	ROBERT GRAY AAF	Bell	48027	ERJ145	6AL006	2,609
2014	JWY	MID-WAY RGNL	Ellis	48139	GULF150	1AS002	2
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	A300B4-6	1PW048	585
2014	LBB	LUBBOCK PRESTON SMITH	Lubbock	48303	A310-2	2GE037	240

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
		INTL					
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	A319-1	1IA003	1
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	A320-1	1CM008	2
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ATR42-4	PW121	309
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ATR72-2	PW124B	145
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-3	1CM004	812
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-4	1CM006	1
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-5	1CM004	1,198
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-7	3CM031	760
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-8	8CM051	27
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B737-9	8CM051	7
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B757-2	4PW072	6
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	B767-3ER	12PW101	3
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	BEECH18	R1820	468
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	CNA208	P6114A	1,181
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	CRJ2-ER	5GE084	5
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	DC9-2	1PW008	963
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	DC9-3	1PW006	2
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ERJ135	6AL011	15
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ERJ140	6AL011	20
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ERJ145	6AL006	3,151
2014	LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ERJ190	8GE115	14
2014	MAF	MIDLAND INTL	Midland	48329	ATR42-4	PW121	190
2014	MAF	MIDLAND INTL	Midland	48329	ATR72-2	PW124B	64
2014	MAF	MIDLAND INTL	Midland	48329	B737-3	1CM004	650
2014	MAF	MIDLAND INTL	Midland	48329	B737-5	1CM004	1,715
2014	MAF	MIDLAND INTL	Midland	48329	B737-7	3CM031	807
2014	MAF	MIDLAND INTL	Midland	48329	B737-8	8CM051	2

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
2014	MAF	MIDLAND INTL	Midland	48329	B767-3ER	12PW101	1
2014	MAF	MIDLAND INTL	Midland	48329	BEECH18	R1820	261
2014	MAF	MIDLAND INTL	Midland	48329	CL300	11HN002	1
2014	MAF	MIDLAND INTL	Midland	48329	CNA208	P6114A	4
2014	MAF	MIDLAND INTL	Midland	48329	CRJ2-ER	5GE084	1,836
2014	MAF	MIDLAND INTL	Midland	48329	CRJ7	8GE112	268
2014	MAF	MIDLAND INTL	Midland	48329	CV580	501DA1	1
2014	MAF	MIDLAND INTL	Midland	48329	DC9-2	1PW008	7
2014	MAF	MIDLAND INTL	Midland	48329	ERJ135	6AL011	97
2014	MAF	MIDLAND INTL	Midland	48329	ERJ140	6AL011	571
2014	MAF	MIDLAND INTL	Midland	48329	ERJ145	6AL006	3,126
2014	MAF	MIDLAND INTL	Midland	48329	ERJ190	8GE115	3
2014	MAF	MIDLAND INTL	Midland	48329	GULF3	1RR019	1
2014	MDD	MIDLAND AIRPARK	Midland	48329	LEAR45	1AS001	1
2014	PVW	HALE COUNTY	Hale	48189	LEAR45	1AS001	1
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	B737-7	3CM031	1
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	B737-8	8CM051	6
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	CNA208	P6114A	324
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	DC9-2	1PW008	6
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	ERJ135	6AL011	7
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	ERJ140	6AL011	215
2014	SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	ERJ190	8GE115	11
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	B727-2	1PW006	4
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	B737-3	1CM004	1
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	B737-4	1CM006	2
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	B757-2	4PW072	4
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	CV580	501DA1	1
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	DC9-2	1PW008	3
2014	SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	DC9-3	1PW006	3
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	B727-2	1PW006	1
2014	SPS	SHEPPARD AFB/WICHITA	Wichita	48485	B737-8	8CM051	4

Year	Airport Code	Facility Name	County	FIPs	Aircraft Code (ACCODE)	Engine Code (UID)	Activity (LTO)
		FALLS MUNI					
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	CRJ2-ER	5GE084	65
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	CRJ7	8GE112	1
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	DC9-2	1PW008	18
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ERJ135	6AL011	5
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ERJ140	6AL011	287
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ERJ145	6AL006	1,013
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ERJ170	8GE108	3
2014	SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ERJ190	8GE115	8
2014	TYR	TYLER POUNDS RGNL	Smith	48423	CRJ2-ER	5GE084	242
2014	TYR	TYLER POUNDS RGNL	Smith	48423	CRJ7	8GE112	1
2014	TYR	TYLER POUNDS RGNL	Smith	48423	ERJ135	6AL011	850
2014	TYR	TYLER POUNDS RGNL	Smith	48423	ERJ140	6AL011	636
2014	TYR	TYLER POUNDS RGNL	Smith	48423	ERJ145	6AL006	916
2014	UVA	GARNER FIELD	Uvalde	48463	CNA208	P6114A	1
2014	VCT	VICTORIA RGNL	Victoria	48469	ERJ135	6AL011	1
2014	VCT	VICTORIA RGNL	Victoria	48469	ERJ145	6AL006	1
2014	VCT	VICTORIA RGNL	Victoria	48469	PA31	TIO540	1,124

Appendix D
Generic Emission Factors (Tons Per LTO)

Pollutant	Military	Commercial	General Aviation (propeller)	General Aviation (jet)	Air Taxi (propeller)	Air Taxi (jet)
1,3-Butadiene	1.21E-05	5.24E-05	9.28E-07	5.87E-06	9.28E-07	8.56E-06
2,2,4-Trimethylpentane	0.00E+00	1.47E-06	3.39E-08	1.31E-07	3.39E-08	1.92E-07
2-Methyl Naphthalene	1.47E-06	6.40E-06	0.00E+00	7.16E-07	0.00E+00	1.05E-06
Acenaphthene	0.00E+00	0.00E+00	8.64E-08	0.00E+00	2.20E-07	0.00E+00
Acenaphthylene	0.00E+00	0.00E+00	4.88E-07	0.00E+00	1.24E-06	0.00E+00
Acetaldehyde	3.06E-05	1.33E-04	5.87E-07	1.49E-05	5.87E-07	2.17E-05
Acrolein	1.75E-05	7.61E-05	5.68E-08	8.52E-06	5.68E-08	1.24E-05
Anthracene	0.00E+00	0.00E+00	1.01E-07	5.22E-11	2.56E-07	1.33E-10
Benzene	1.20E-05	5.23E-05	3.84E-06	5.85E-06	3.84E-06	8.53E-06
Benzo(a)anthracene	0.00E+00	1.30E-09	1.18E-08	7.90E-12	3.02E-08	2.01E-11
Benzo(a)pyrene	0.00E+00	9.62E-10	1.18E-08	4.33E-12	3.02E-08	1.10E-11
Benzo(b)fluoranthene	0.00E+00	1.89E-09	1.42E-08	0.00E+00	3.62E-08	0.00E+00
Benzo(ghi)perylene	0.00E+00	1.73E-11	3.08E-08	7.18E-13	7.84E-08	1.83E-12
Benzo(k)fluoranthene	0.00E+00	1.89E-09	1.42E-08	0.00E+00	3.62E-08	0.00E+00
Chrysene	0.00E+00	1.31E-09	1.18E-08	7.36E-12	3.02E-08	1.88E-11
CO	1.41E-02	1.12E-02	6.01E-03	4.79E-03	1.41E-02	1.81E-03
Dibenzo(ah)anthracene	0.00E+00	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	1.25E-06	5.41E-06	1.39E-06	6.05E-07	1.39E-06	8.83E-07
Fluoranthene	0.00E+00	2.49E-09	1.08E-07	1.09E-10	2.75E-07	2.78E-10
Fluorene	0.00E+00	0.00E+00	1.79E-07	0.00E+00	4.56E-07	0.00E+00
Formaldehyde	8.81E-05	3.83E-04	2.55E-06	4.28E-05	2.55E-06	6.25E-05
Indeno(1,2,3-cd)pyrene	0.00E+00	2.05E-09	9.47E-09	0.00E+00	2.41E-08	0.00E+00
Isopropylbenzene	2.15E-08	9.33E-08	0.00E+00	1.04E-08	0.00E+00	1.52E-08
Lead			7.69E-06		7.69E-06	
Methanol	1.29E-05	5.61E-05	0.00E+00	6.28E-06	0.00E+00	9.16E-06
M-Xylene And P-Xylene	2.02E-06	8.77E-06		9.81E-07		1.43E-06
Naphthalene	3.87E-06	1.68E-05		1.88E-06		2.74E-06
Naphthalene (gas phase)			4.33E-07		4.33E-07	
Naphthalene (solid phase)			1.07E-05		2.74E-05	
N-Hexane	0.00E+00	0.00E+00	6.63E-07	0.00E+00	6.63E-07	0.00E+00
NO_X	7.90E-05	9.29E-03	3.25E-05	1.62E-04	7.90E-05	3.88E-04
O-Xylene	1.19E-06	5.16E-06		5.77E-07		8.42E-07
Phenanthrene	0.00E+00	1.11E-08	3.01E-07	4.86E-10	7.66E-07	1.24E-09
Phenol	5.20E-06	2.26E-05	0.00E+00	2.52E-06	0.00E+00	3.68E-06
PM10	3.02E-04	5.39E-04	1.18E-04	1.18E-04	3.02E-04	3.02E-04
PM2.5	2.94E-04	5.26E-04	8.17E-05	1.16E-04	2.08E-04	2.94E-04
Propionaldehyde	5.20E-06	2.26E-05	5.68E-08	2.53E-06	5.68E-08	3.69E-06
SO2	7.50E-06	8.91E-04	5.00E-06	3.68E-05	7.50E-06	8.12E-05
Styrene	2.21E-06	9.61E-06	3.22E-07	1.07E-06	3.22E-07	1.57E-06
Toluene	4.59E-06	2.00E-05	9.85E-06	2.23E-06	9.85E-06	3.26E-06
VOC	7.10E-04	3.08E-03	7.52E-05	3.45E-04	8.48E-05	5.03E-04
Xylene			5.55E-06		5.55E-06	

Appendix E
2014 County Level Criteria Emissions (Tons Per Year)

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Tarrant	48439	792.52	3729.1	6005	119.05	112.68	385.23
Harris	48201	719.37	2317.5	5960.7	85.254	79.146	296.18
Dallas	48113	267.78	476.76	2029.3	41.861	37.971	67.041
Bexar	48029	157.06	572.51	1426.9	23.581	21.711	64.212
Travis	48453	116.61	798.43	1122.8	19.209	18.626	71.954
El Paso	48141	54.909	216.95	646.48	14.227	12.79	23.81
Wichita	48485	40.287	11.445	838.5	17.834	16.81	1.5446
Denton	48121	31.878	15.018	1019.9	21.72	17.356	3.1083
Lubbock	48303	31.755	77.197	497.83	12.093	10.789	8.9682
Cameron	48061	30.762	70.351	406.08	9.4387	8.7845	7.7228
Midland	48329	28.612	56.676	517.83	11.945	10.588	7.3063
Tom Green	48451	28.095	20.737	515.34	11.988	11.169	2.4707
Hidalgo	48215	24.689	46.023	350.5	8.3131	7.379	6.2295
Nueces	48355	21.128	32.658	351.78	8.2372	7.6923	4.2819
Brazoria	48039	17.693	10.459	592.46	13.2	10.377	1.8569
Bell	48027	17.585	30.925	337.47	7.1442	6.1072	4.004
Fort Bend	48157	17.453	8.3879	386.51	9.2812	8.0016	1.8038
Victoria	48469	17.373	2.3768	388.61	7.5215	7.1568	0.3584
McLennan	48309	17.331	12.491	444.9	9.8475	8.2868	1.9716
Potter	48375	17.149	40.426	291.58	6.9578	6.4504	4.2713
Collin	48085	16.958	7.9869	352.72	8.1444	7.1295	1.7525
Taylor	48441	15.793	14.954	257.38	6.3764	5.9456	2.2374
Aransas	48007	15.306	3.0198	369.88	7.8756	7.0773	0.4728
Williamson	48491	14.693	6.8323	342.4	7.6724	6.5397	1.4832
Brazos	48041	14.084	14.751	288.74	6.7199	5.8651	2.2221
Grayson	48181	13.086	5.9303	265.07	6.0646	5.3674	1.2998
Webb	48479	11.103	48.43	109.86	2.4923	2.4175	4.8515
Montgomery	48339	10.591	4.5468	208.65	4.834	4.3366	0.9847
Medina	48325	9.9594	4.6078	373.87	7.8105	6.0156	0.9212
Gregg	48183	9.609	6.5358	258.93	6.5548	5.4565	1.0726
Galveston	48167	7.9037	3.2521	118.68	3.7002	3.1752	0.7171
Smith	48423	7.6847	12.916	137.55	3.5901	3.0258	2.0016
Caldwell	48055	5.6903	2.5605	201.79	4.3425	3.3986	0.5125
Hunt	48231	4.893	1.8884	169.46	3.5438	2.8065	0.3686
Jefferson	48245	4.8833	5.4867	119.29	2.7609	2.2628	0.8884
Kerr	48265	4.7893	2.1828	182.28	3.8026	2.9217	0.4404
Guadalupe	48187	4.3707	1.768	148.3	3.2004	2.5464	0.3457
Ellis	48139	4.2523	1.9268	160.76	3.3544	2.5818	0.3881

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Parker	48367	4.1894	1.8769	161.37	3.3596	2.5787	0.3759
Rockwall	48397	4.1104	1.8722	154.18	3.2212	2.4819	0.3787
Ector	48135	3.9077	1.7819	147.3	3.0759	2.3676	0.3602
Johnson	48251	3.7277	1.7354	77.897	1.7667	1.5462	0.3818
Burnet	48053	3.6351	1.5825	136.15	2.8389	2.1951	0.3159
Val Verde	48465	3.6042	7.1108	50.312	1.3455	1.1355	0.8119
McCulloch	48307	3.4531	0.8408	92.373	1.9523	1.6886	0.1444
Reeves	48389	3.4522	0.9555	85.286	1.9555	1.718	0.1685
Randall	48381	3.155	1.4373	121.14	2.5248	1.9367	0.2895
Walker	48471	2.8262	0.7962	78.788	1.6878	1.434	0.1433
Comal	48091	2.7558	1.2554	105.93	2.2076	1.6931	0.2528
Wise	48497	2.6454	1.203	105.44	2.1891	1.668	0.2404
Hale	48189	2.3489	1.064	89.968	1.8747	1.4391	0.214
Kaufman	48257	2.3184	1.0608	86.631	1.8155	1.3999	0.2147
Hood	48221	2.1392	0.9732	84.583	1.7575	1.341	0.1948
Nacogdoches	48347	1.8128	0.7898	66.619	1.392	1.0802	0.1583
San Patricio	48409	1.8052	0.8234	67.528	1.4113	1.0878	0.1667
Cooke	48097	1.7624	0.7897	68.763	1.4297	1.0948	0.1578
Wood	48499	1.7564	0.8007	66.429	1.3867	1.0667	0.1618
Hartley	48205	1.7531	0.7811	65.092	1.36	1.0516	0.1573
Matagorda	48321	1.6944	0.5884	53.682	1.1284	0.9174	0.1129
Jackson	48239	1.6844	0.758	54.652	1.1598	0.9205	0.1567
Liberty	48291	1.6831	0.7143	62.721	1.307	1.0134	0.1416
Panola	48365	1.6568	0.6945	59.042	1.2355	0.9672	0.1384
Llano	48299	1.63	0.7777	59.928	1.3036	1.0107	0.1566
Wharton	48481	1.6217	0.7267	61.459	1.2817	0.9868	0.146
La Salle	48283	1.5908	0.5301	43.981	1.0025	0.8477	0.0984
Angelina	48005	1.5708	0.6551	56.156	1.1744	0.9192	0.1303
Hopkins	48223	1.5015	0.6334	53.527	1.1254	0.8812	0.1261
Waller	48473	1.4832	0.6747	58.695	1.2195	0.9304	0.135
Swisher	48437	1.466	0.6681	55.91	1.1661	0.8956	0.1347
Lamar	48277	1.4317	0.6519	45.49	1.0037	0.803	0.1331
Young	48503	1.3948	0.636	52.545	1.0973	0.8447	0.1286
Harrison	48203	1.3682	0.6248	49.872	1.0453	0.8096	0.1272
Hockley	48219	1.345	0.6151	50.41	1.0557	0.8136	0.1244
Howard	48227	1.3181	0.4642	42.355	0.8894	0.7202	0.0892
Gillespie	48171	1.317	0.5908	50.057	1.0609	0.8186	0.1174
Gaines	48165	1.2897	0.5977	48.49	1.0267	0.7914	0.1205
Colorado	48089	1.2455	0.5679	47.082	0.9829	0.7562	0.1147

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Presidio	48377	1.2102	0.5517	45.852	0.957	0.7359	0.1114
Stephens	48429	1.209	0.551	46.098	0.9615	0.7385	0.1111
Jim Wells	48249	1.2084	0.3071	32.805	0.6941	0.5967	0.0536
Chambers	48071	1.2024	0.5482	45.455	0.9489	0.73	0.1108
Cass	48067	1.187	0.5409	45.296	0.9447	0.7255	0.1091
Moore	48341	1.1745	0.5318	44.228	0.9234	0.7112	0.1073
Washington	48477	1.1722	0.5278	44.963	0.9367	0.7193	0.1059
Calhoun	48057	1.1717	0.3512	34.169	0.7206	0.6028	0.0649
Cherokee	48073	1.1303	0.5093	42.208	0.8818	0.6805	0.1028
Uvalde	48463	1.0877	0.477	37.893	0.8193	0.645	0.0951
Deaf Smith	48117	1.0305	0.4659	38.761	0.8106	0.6248	0.0939
Titus	48449	1.0142	0.4624	38.366	0.8009	0.616	0.0934
Orange	48361	0.9754	0.4996	32.772	0.7696	0.6086	0.1009
Kleberg	48273	0.9463	0.2793	26.651	0.5726	0.484	0.0511
Erath	48143	0.8948	0.4072	35.199	0.7318	0.5589	0.0816
Rusk	48401	0.8639	0.345	30.015	0.6284	0.4962	0.0681
Anderson	48001	0.8632	0.3876	32.092	0.6707	0.5182	0.0782
Jasper	48241	0.8582	0.3913	32.394	0.6764	0.5205	0.0791
Fayette	48149	0.8564	0.3893	34.338	0.7125	0.5423	0.0777
Upshur	48459	0.8398	0.3833	30.992	0.6487	0.5013	0.0778
Pecos	48371	0.8284	0.3658	30.042	0.6376	0.4967	0.0732
Atascosa	48013	0.827	0.2581	23.559	0.5163	0.4343	0.0475
Brewster	48043	0.7562	0.3383	28.888	0.6019	0.4628	0.0678
Ochiltree	48357	0.7521	0.343	28.335	0.5918	0.4555	0.0693
Wilbarger	48487	0.7398	0.3249	27.611	0.5762	0.4455	0.0651
Bastrop	48021	0.7314	0.3327	28.905	0.6006	0.4583	0.0666
Yoakum	48501	0.7242	0.3303	27.243	0.569	0.4382	0.0668
Scurry	48415	0.722	0.3292	27.202	0.5681	0.4373	0.0666
Lamb	48279	0.7137	0.3228	25.827	0.5415	0.4203	0.0656
Dawson	48115	0.7041	0.3212	26.337	0.5504	0.4243	0.065
Terry	48445	0.6676	0.3046	24.928	0.5211	0.4018	0.0617
Eastland	48133	0.6612	0.3014	25.072	0.5232	0.4023	0.0609
Ward	48475	0.6545	0.2984	24.651	0.5148	0.3963	0.0603
Navarro	48349	0.6394	0.2903	26.312	0.5445	0.4126	0.0576
Polk	48373	0.5933	0.2704	22.636	0.4721	0.3626	0.0545
Hill	48217	0.5893	0.2676	24.153	0.5	0.3791	0.0531
Shelby	48419	0.5822	0.2618	21.746	0.4543	0.3506	0.0528
Brown	48049	0.5773	0.3216	17.959	0.3911	0.314	0.0602
Jones	48253	0.5692	0.2593	21.933	0.4569	0.3503	0.0522

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Coleman	48083	0.5641	0.2572	21.258	0.4439	0.3417	0.052
Parmer	48369	0.5571	0.2538	21.448	0.4469	0.3426	0.0511
Bailey	48017	0.5554	0.2543	19.012	0.4013	0.3146	0.0524
Henderson	48213	0.5509	0.2506	21.882	0.4545	0.3465	0.0501
Montague	48337	0.5475	0.2453	20.518	0.431	0.3329	0.0492
Houston	48225	0.5465	0.2489	21.166	0.4407	0.3375	0.05
Limestone	48293	0.5262	0.2398	20.115	0.4194	0.322	0.0483
Comanche	48093	0.515	0.2347	19.607	0.409	0.3142	0.0474
Gray	48179	0.5048	0.2302	19.025	0.3973	0.3058	0.0465
Bosque	48035	0.5034	0.2286	20.618	0.4269	0.3237	0.0454
Crosby	48107	0.4991	0.2292	16.023	0.3408	0.2707	0.0477
Fannin	48147	0.4932	0.2233	21.299	0.4387	0.3296	0.0438
Floyd	48153	0.4895	0.2228	19.094	0.3973	0.3039	0.0447
Crockett	48105	0.4852	0.2118	18.094	0.3775	0.2921	0.0424
Kent	48263	0.4613	0.2103	17.502	0.3652	0.2808	0.0425
Robertson	48395	0.454	0.2064	18.17	0.3771	0.2871	0.0412
Lampasas	48281	0.4402	0.2	17.775	0.3685	0.2802	0.0399
Hardeman	48197	0.4288	0.1955	16.157	0.3374	0.2597	0.0395
Hutchinson	48233	0.4247	0.1924	15.938	0.3329	0.2566	0.0389
Hamilton	48193	0.4125	0.1861	16.171	0.3384	0.2591	0.0371
Kimble	48267	0.4118	0.1755	14.876	0.3111	0.2426	0.0351
Brooks	48047	0.4103	0.1869	15.841	0.33	0.2529	0.0376
Carson	48065	0.3977	0.1815	14.704	0.3077	0.2377	0.0368
Knox	48275	0.389	0.1771	15.099	0.3143	0.2407	0.0356
Clay	48077	0.3807	0.1747	12.363	0.2626	0.208	0.0363
Frio	48163	0.3704	0.1687	14.339	0.2986	0.2287	0.0339
Lee	48287	0.3673	0.1668	15.051	0.3116	0.2363	0.0331
Grimes	48185	0.3627	0.1654	13.727	0.2865	0.2204	0.0334
Palo Pinto	48363	0.3614	0.1646	14.006	0.2916	0.2233	0.0331
Refugio	48391	0.3604	0.1643	13.75	0.2868	0.2202	0.0331
Nolan	48353	0.3586	0.1635	13.599	0.2838	0.2182	0.033
Bee	48025	0.358	0.1632	13.557	0.283	0.2176	0.033
Franklin	48159	0.3491	0.1594	12.728	0.2668	0.2066	0.0324
Coryell	48099	0.3433	0.1563	13.338	0.2776	0.2125	0.0314
Mitchell	48335	0.3427	0.1565	12.535	0.2626	0.2033	0.0318
Archer	48009	0.3226	0.1476	11.274	0.2374	0.1854	0.0303
Milam	48331	0.3178	0.1444	12.889	0.2671	0.2029	0.0287
Shackelford	48417	0.3051	0.1391	11.493	0.24	0.1848	0.0281
Oldham	48359	0.3009	0.1372	11.34	0.2368	0.1823	0.0277

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Winkler	48495	0.2964	0.123	10.326	0.2165	0.1704	0.0246
Austin	48015	0.2862	0.129	13.413	0.2742	0.2033	0.0248
Fisher	48151	0.2768	0.1262	10.504	0.2192	0.1685	0.0255
Andrews	48003	0.2707	0.1234	10.201	0.213	0.164	0.025
Red River	48387	0.2675	0.122	10.152	0.2118	0.1629	0.0246
Hardin	48199	0.2624	0.1201	9.6457	0.2025	0.1566	0.0244
Jim Hogg	48247	0.2623	0.1195	10.169	0.2117	0.1621	0.024
Van Zandt	48467	0.257	0.1163	11.266	0.2317	0.1737	0.0227
Hansford	48195	0.2497	0.1138	9.4075	0.1965	0.1512	0.023
Runnels	48399	0.2492	0.117	9.4679	0.2025	0.1559	0.0235
Cochran	48079	0.2481	0.1131	9.351	0.1953	0.1503	0.0229
Childress	48075	0.2434	0.1111	9.0171	0.1886	0.1457	0.0225
Zapata	48505	0.237	0.1079	9.2615	0.1927	0.1473	0.0217
Burleson	48051	0.2253	0.1027	8.5529	0.1785	0.1372	0.0207
Hudspeth	48229	0.2234	0.1019	8.2885	0.1734	0.1339	0.0207
Lavaca	48285	0.2226	0.1014	8.5398	0.178	0.1366	0.0204
Castro	48069	0.2102	0.0955	8.5261	0.1767	0.1342	0.019
Dallam	48111	0.2097	0.0957	7.7411	0.162	0.1252	0.0194
Lynn	48305	0.2077	0.0945	8.15	0.1695	0.1295	0.019
Collingsworth	48087	0.1943	0.0813	6.9389	0.1452	0.1136	0.0162
Hemphill	48211	0.1941	0.0882	7.8815	0.1633	0.124	0.0175
Karnes	48255	0.1845	0.0839	7.3218	0.1521	0.116	0.0168
Live Oak	48297	0.1818	0.0825	7.4422	0.1541	0.1169	0.0164
Haskell	48207	0.1806	0.0823	6.8002	0.142	0.1093	0.0166
Hall	48191	0.173	0.0789	6.5169	0.1361	0.1048	0.016
Reagan	48383	0.1693	0.0772	6.4198	0.134	0.103	0.0156
Gonzales	48177	0.1643	0.0748	6.3659	0.1326	0.1015	0.015
DeWitt	48123	0.1552	0.0707	5.9373	0.1238	0.095	0.0143
Marion	48315	0.1464	0.0667	5.5014	0.1149	0.0885	0.0135
San Saba	48411	0.144	0.0655	5.7023	0.1185	0.0904	0.0131
Mason	48319	0.1429	0.065	5.6122	0.1167	0.0891	0.013
Dimmit	48127	0.1427	0.0649	5.6831	0.118	0.0899	0.013
Duval	48131	0.1393	0.0627	6.6187	0.1352	0.1	0.012
Tyler	48457	0.1347	0.0614	5.1859	0.1081	0.0828	0.0124
Donley	48129	0.1339	0.061	5.05	0.1054	0.0812	0.0123
Sutton	48435	0.1269	0.0578	4.8785	0.1017	0.078	0.0116
Martin	48317	0.1212	0.0551	4.8536	0.1007	0.0767	0.011
Trinity	48455	0.1183	0.0538	4.8093	0.0997	0.0757	0.0107
Freestone	48161	0.1102	0.0502	4.1858	0.0873	0.0671	0.0101

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Sabine	48403	0.103	0.0471	3.6091	0.076	0.0593	0.0097
Culberson	48109	0.1017	0.0217	2.9051	0.0607	0.0519	0.0034
Real	48385	0.1009	0.0458	4.101	0.085	0.0645	0.0091
Willacy	48489	0.0976	0.0442	4.2491	0.0875	0.0656	0.0087
Crane	48103	0.096	0.0438	3.6408	0.076	0.0584	0.0088
Stonewall	48433	0.0947	0.0435	3.0566	0.065	0.0515	0.009
Wheeler	48483	0.0929	0.0423	3.528	0.0736	0.0566	0.0085
Cottle	48101	0.0846	0.0386	3.2099	0.067	0.0515	0.0078
Schleicher	48413	0.0761	0.0345	3.1851	0.0658	0.0497	0.0068
Bandera	48019	0.0714	0.0313	4.9516	0.0983	0.069	0.0052
Hays	48209	0.071	0.0311	4.9216	0.0978	0.0686	0.0052
Edwards	48137	0.0674	0.0302	3.4466	0.0699	0.0511	0.0057
Garza	48169	0.0619	0.0279	2.8746	0.0588	0.0437	0.0054
Upton	48461	0.0614	0.028	2.3312	0.0486	0.0374	0.0056
San Augustine	48405	0.0611	0.0278	2.3072	0.0482	0.0371	0.0056
Leon	48289	0.0602	0.0265	4.0373	0.0804	0.0566	0.0045
Maverick	48323	0.0584	0.0267	2.0019	0.0423	0.0331	0.0055
Menard	48327	0.0583	0.0263	2.7197	0.0556	0.0413	0.0051
Blanco	48031	0.0582	0.0252	4.6494	0.0916	0.0632	0.0039
Madison	48313	0.0529	0.0239	2.2872	0.0471	0.0354	0.0047
Zavala	48507	0.0524	0.0232	3.2286	0.0646	0.046	0.0041
Newton	48351	0.0452	0.0206	1.6745	0.035	0.027	0.0042
Roberts	48393	0.045	0.0204	1.9799	0.0407	0.0305	0.004
Jack	48237	0.0442	0.0196	2.5739	0.0517	0.0371	0.0035
Kinney	48271	0.0422	0.0182	3.3699	0.0664	0.0458	0.0028
Lipscomb	48295	0.0399	0.0177	2.4154	0.0484	0.0346	0.0031
Wilson	48493	0.0398	0.0172	3.1777	0.0626	0.0432	0.0026
Somervell	48425	0.037	0.0164	2.1812	0.0438	0.0314	0.0029
Foard	48155	0.0364	0.0166	1.2891	0.0271	0.0211	0.0034
Starr	48427	0.0304	0.0137	1.4746	0.0301	0.0222	0.0026
Terrell	48443	0.0295	0.0133	1.3965	0.0285	0.0211	0.0025
Falls	48145	0.0289	0.013	1.3545	0.0277	0.0205	0.0025
Mills	48333	0.0264	0.0114	2.1085	0.0415	0.0287	0.0018
Kendall	48259	0.0257	0.0111	2.0544	0.0405	0.0279	0.0017
Callahan	48059	0.0238	0.0104	1.7395	0.0344	0.024	0.0017
Coke	48081	0.0229	0.0104	0.8739	0.0182	0.014	0.0021
Baylor	48023	0.0227	0.0103	0.8559	0.0179	0.0138	0.0021
Rains	48379	0.0212	0.0096	0.9197	0.0189	0.0142	0.0019
Camp	48063	0.0207	0.0094	0.8776	0.0181	0.0136	0.0018

County	FIPS	Emissions (Tons Per Year)					
		VOC	NOX	CO	PM10	PM25	SO2
Sherman	48421	0.0201	0.0091	0.7599	0.0159	0.0122	0.0018
Armstrong	48011	0.0199	0.0086	1.5919	0.0314	0.0216	0.0013
Morris	48343	0.0166	0.0077	0.4138	0.0091	0.0076	0.0017
Bowie	48037	0.0155	0.0067	1.2374	0.0244	0.0168	0.001
Motley	48345	0.0151	0.0069	0.5726	0.012	0.0092	0.0014
King	48269	0.013	0.0056	1.0392	0.0205	0.0141	0.0009
Dickens	48125	0.013	0.0056	1.0392	0.0205	0.0141	0.0009
Glasscock	48173	0.0101	0.0044	0.8049	0.0159	0.0109	0.0007
Sterling	48431	0.0087	0.0038	0.6716	0.0133	0.0092	0.0006
San Jacinto	48407	0.0077	0.0033	0.6127	0.0121	0.0083	0.0005
Irion	48235	0.0065	0.0028	0.5226	0.0103	0.0071	0.0004
McMullen	48311	0.0065	0.0028	0.5226	0.0103	0.0071	0.0004
Kenedy	48261	0.0065	0.0028	0.5166	0.0102	0.007	0.0004
Throckmorton	48447	0.0049	0.0022	0.1873	0.0039	0.003	0.0005
Briscoe	48045	8E-05	3E-05	0.006	0.0001	8E-05	5E-06
Delta	48119	8E-05	3E-05	0.006	0.0001	8E-05	5E-06
Jeff Davis	48243	8E-05	3E-05	0.006	0.0001	8E-05	5E-06

Appendix F
Comparison of Revised 2014 Emissions to Original 2014 Emissions by Total State Emissions and by SCC

Pollutant Name	Pollutant ID	Original 2014	Revised 2014	Absolute Difference
VOC	VOC	2,767.931	2,771.929	3.998
NOX	NOX	8,631.328	8,764.604	133.276
CO	CO	33,364.080	33,400.837	36.758
PM10	PM10-PRI	658.074	661.206	3.132
PM2.5	PM25-PRI	581.205	584.337	3.132
SO2	SO2	991.300	1,000.384	9.084
1,3-Butadiene	106990	2.57E+01	3.90E+01	1.33E+01
2,2,4-Trimethylpentane	540841	1.10E+00	1.98E+00	8.74E-01
2-Methyl Naphthalene	91576	2.88E+00	4.49E+00	1.61E+00
Acenaphthene	83329	1.67E-01	1.67E-01	0.00E+00
Acenaphthylene	208968	9.42E-01	9.42E-01	0.00E+00
Acetaldehyde	75070	6.22E+01	9.63E+01	3.42E+01
Acrolein	107028	3.48E+01	5.41E+01	1.93E+01
Anthracene	120127	1.94E-01	1.94E-01	0.00E+00
Benzene	71432	3.22E+01	4.65E+01	1.43E+01
Benzo(a)anthracene	56553	2.29E-02	2.29E-02	0.00E+00
Benzo(a)pyrene	50328	2.29E-02	2.29E-02	0.00E+00
Benzo(b)fluoranthene	205992	2.75E-02	2.75E-02	0.00E+00
Benzo(ghi)perylene	191242	5.95E-02	5.95E-02	0.00E+00
Benzo(k)fluoranthene	207089	2.75E-02	2.75E-02	0.00E+00
Chrysene	218019	2.29E-02	2.29E-02	0.00E+00
Dibenzo(ah)anthracene	53703	1.05E-05	1.05E-05	0.00E+00
Ethylbenzene	100414	5.50E+00	7.27E+00	1.76E+00
Fluoranthene	206440	2.08E-01	2.08E-01	0.00E+00
Fluorene	86737	3.45E-01	3.45E-01	0.00E+00
Formaldehyde	50000	1.81E+02	2.80E+02	9.87E+01
Indeno(1,2,3-cd)pyrene	193395	1.83E-02	1.83E-02	0.00E+00
Isopropylbenzene	98828	4.20E-02	6.55E-02	2.34E-02
Lead	7439921	1.49E+01	1.49E+01	0.00E+00
Methane	CH4	3.36E+00	5.84E+00	2.48E+00
Methanol	67561	2.53E+01	3.94E+01	1.41E+01
Naphthalene	91203	2.46E+01	3.34E+01	8.77E+00
N-Hexane	110543	2.17E+00	2.17E+00	0.00E+00
Phenanthrene	85018	5.82E-01	5.82E-01	0.00E+00
Phenol	108952	1.02E+01	1.59E+01	5.70E+00
Propionaldehyde	123386	1.07E+01	1.67E+01	6.00E+00
Styrene	100425	5.00E+00	7.45E+00	2.45E+00
Toluene	108883	2.95E+01	3.63E+01	6.80E+00
Xylene	1330207	1.85E+01	2.37E+01	5.16E+00

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
Air Taxi, Piston	2275060011	100414	Ethylbenzene	4.66E-02	5.05E-02	3.89E-03
Air Taxi, Piston	2275060011	100425	Styrene	4.27E-02	5.20E-02	9.30E-03
Air Taxi, Piston	2275060011	106990	1,3-Butadiene	1.74E-01	2.14E-01	4.04E-02
Air Taxi, Piston	2275060011	107028	Acrolein	2.03E-01	2.56E-01	5.36E-02
Air Taxi, Piston	2275060011	108883	Toluene	2.74E-01	2.87E-01	1.29E-02
Air Taxi, Piston	2275060011	108952	Phenol	2.46E-02	3.15E-02	6.91E-03
Air Taxi, Piston	2275060011	110543	N-Hexane	1.52E-02	1.52E-02	0.00E+00
Air Taxi, Piston	2275060011	120127	Anthracene	5.88E-03	5.88E-03	0.00E+00
Air Taxi, Piston	2275060011	123386	Propionaldehyde	8.69E-02	1.10E-01	2.26E-02
Air Taxi, Piston	2275060011	1330207	Xylene	1.70E-01	1.81E-01	1.13E-02
Air Taxi, Piston	2275060011	191242	Benzo(ghi)perylene	1.80E-03	1.80E-03	0.00E+00
Air Taxi, Piston	2275060011	193395	Indeno(1,2,3-cd)pyrene	5.54E-04	5.54E-04	0.00E+00
Air Taxi, Piston	2275060011	205992	Benzo(b)fluoranthene	8.31E-04	8.31E-04	0.00E+00
Air Taxi, Piston	2275060011	206440	Fluoranthene	6.30E-03	6.30E-03	0.00E+00
Air Taxi, Piston	2275060011	207089	Benzo(k)fluoranthene	8.31E-04	8.31E-04	0.00E+00
Air Taxi, Piston	2275060011	208968	Acenaphthylene	2.85E-02	2.85E-02	0.00E+00
Air Taxi, Piston	2275060011	218019	Chrysene	6.92E-04	6.92E-04	0.00E+00
Air Taxi, Piston	2275060011	50000	Formaldehyde	1.41E+00	1.77E+00	3.57E-01
Air Taxi, Piston	2275060011	50328	Benzo(a)pyrene	6.92E-04	6.92E-04	0.00E+00
Air Taxi, Piston	2275060011	540841	2,2,4-Trimethylpentane	7.79E-04	7.79E-04	0.00E+00
Air Taxi, Piston	2275060011	56553	Benzo(a)anthracene	6.92E-04	6.92E-04	0.00E+00
Air Taxi, Piston	2275060011	67561	Methanol	1.22E-02	1.68E-02	4.61E-03
Air Taxi, Piston	2275060011	71432	Benzene	2.60E-01	3.05E-01	4.55E-02
Air Taxi, Piston	2275060011	7439921	Lead	3.94E-01	3.94E-01	0.00E+00
Air Taxi, Piston	2275060011	75070	Acetaldehyde	4.30E-01	5.40E-01	1.10E-01
Air Taxi, Piston	2275060011	83329	Acenaphthene	5.05E-03	5.05E-03	0.00E+00
Air Taxi, Piston	2275060011	85018	Phenanthrene	1.76E-02	1.76E-02	0.00E+00

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
Air Taxi, Piston	2275060011	86737	Fluorene	1.05E-02	1.05E-02	0.00E+00
Air Taxi, Piston	2275060011	91203	Naphthalene	6.38E-01	7.00E-01	6.25E-02
Air Taxi, Piston	2275060011	91576	2-Methyl Naphthalene	1.39E-03	1.91E-03	5.26E-04
Air Taxi, Piston	2275060011	98828	Isopropylbenzene	2.02E-05	2.79E-05	7.66E-06
Air Taxi, Piston	2275060011	CH4	Methane	9.82E-01	1.23E+00	2.52E-01
Air Taxi, Piston	2275060011	CO	CO	913.975	913.975	0.000
Air Taxi, Piston	2275060011	NOX	NOX	4.076	4.076	0.000
Air Taxi, Piston	2275060011	PM10-PRI	PM10	8.974	8.974	0.000
Air Taxi, Piston	2275060011	PM25-PRI	PM2.5	6.828	6.828	0.000
Air Taxi, Piston	2275060011	SO2	SO2	1.138	1.138	0.000
Air Taxi, Piston	2275060011	VOC	VOC	12.542	12.542	0.000
Air Taxi, Turbine	2275060012	100414	Ethylbenzene	4.75E-01	5.63E-01	8.84E-02
Air Taxi, Turbine	2275060012	100425	Styrene	8.49E-01	1.01E+00	1.64E-01
Air Taxi, Turbine	2275060012	106990	1,3-Butadiene	4.61E+00	5.48E+00	8.64E-01
Air Taxi, Turbine	2275060012	107028	Acrolein	6.68E+00	7.92E+00	1.24E+00
Air Taxi, Turbine	2275060012	108883	Toluene	1.75E+00	2.07E+00	3.22E-01
Air Taxi, Turbine	2275060012	108952	Phenol	1.96E+00	2.30E+00	3.42E-01
Air Taxi, Turbine	2275060012	120127	Anthracene	1.12E-05	1.12E-05	0.00E+00
Air Taxi, Turbine	2275060012	123386	Propionaldehyde	2.00E+00	2.39E+00	3.87E-01
Air Taxi, Turbine	2275060012	1330207	Xylene	1.23E+00	1.46E+00	2.31E-01
Air Taxi, Turbine	2275060012	191242	Benzo(ghi)perylene	1.54E-07	1.54E-07	0.00E+00
Air Taxi, Turbine	2275060012	206440	Fluoranthene	2.34E-05	2.34E-05	0.00E+00
Air Taxi, Turbine	2275060012	218019	Chrysene	1.58E-06	1.58E-06	0.00E+00
Air Taxi, Turbine	2275060012	50000	Formaldehyde	3.38E+01	4.03E+01	6.48E+00
Air Taxi, Turbine	2275060012	50328	Benzo(a)pyrene	9.28E-07	9.28E-07	0.00E+00
Air Taxi, Turbine	2275060012	540841	2,2,4-Trimethylpentane	1.61E-02	1.61E-02	0.00E+00
Air Taxi, Turbine	2275060012	56553	Benzo(a)anthracene	1.69E-06	1.69E-06	0.00E+00

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
Air Taxi, Turbine	2275060012	67561	Methanol	4.85E+00	5.66E+00	8.14E-01
Air Taxi, Turbine	2275060012	71432	Benzene	4.61E+00	5.48E+00	8.76E-01
Air Taxi, Turbine	2275060012	75070	Acetaldehyde	1.17E+01	1.39E+01	2.21E+00
Air Taxi, Turbine	2275060012	85018	Phenanthrene	1.04E-04	1.04E-04	0.00E+00
Air Taxi, Turbine	2275060012	91203	Naphthalene	2.31E-01	1.72E+00	1.49E+00
Air Taxi, Turbine	2275060012	91576	2-Methyl Naphthalene	5.54E-01	6.46E-01	9.29E-02
Air Taxi, Turbine	2275060012	98828	Isopropylbenzene	8.06E-03	9.41E-03	1.35E-03
Air Taxi, Turbine	2275060012	CH4	Methane	5.44E-01	1.27E+00	7.21E-01
Air Taxi, Turbine	2275060012	CO	CO	1,083.756	954.912	-128.844
Air Taxi, Turbine	2275060012	NOX	NOX	377.738	277.961	-99.777
Air Taxi, Turbine	2275060012	PM10-PRI	PM10	40.744	39.408	-1.337
Air Taxi, Turbine	2275060012	PM25-PRI	PM2.5	40.135	38.799	-1.337
Air Taxi, Turbine	2275060012	SO2	SO2	65.936	52.862	-13.074
Air Taxi, Turbine	2275060012	VOC	VOC	348.410	341.997	-6.413
APU	2275070000	100414	Ethylbenzene	3.41E-02	4.15E-02	7.48E-03
APU	2275070000	100425	Styrene	6.05E-02	7.38E-02	1.33E-02
APU	2275070000	106990	1,3-Butadiene	3.30E-01	4.03E-01	7.25E-02
APU	2275070000	107028	Acrolein	4.79E-01	5.85E-01	1.05E-01
APU	2275070000	108883	Toluene	1.26E-01	1.53E-01	2.76E-02
APU	2275070000	108952	Phenol	1.42E-01	1.73E-01	3.12E-02
APU	2275070000	123386	Propionaldehyde	1.42E-01	1.74E-01	3.12E-02
APU	2275070000	1330207	Xylene	8.77E-02	1.07E-01	1.93E-02
APU	2275070000	50000	Formaldehyde	2.41E+00	2.94E+00	5.29E-01
APU	2275070000	67561	Methanol	3.53E-01	4.31E-01	7.76E-02
APU	2275070000	71432	Benzene	3.29E-01	4.01E-01	7.22E-02
APU	2275070000	75070	Acetaldehyde	8.36E-01	1.02E+00	1.84E-01
APU	2275070000	91203	Naphthalene		1.28E-01	

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
APU	2275070000	91576	2-Methyl Naphthalene	4.03E-02	4.92E-02	8.85E-03
APU	2275070000	98828	Isopropylbenzene	5.87E-04	7.16E-04	1.29E-04
APU	2275070000	CO	CO	283.106	301.795	18.689
APU	2275070000	NOX	NOX	236.108	250.476	14.368
APU	2275070000	PM10-PRI	PM10	34.177	36.234	2.058
APU	2275070000	PM25-PRI	PM2.5	34.177	36.234	2.058
APU	2275070000	SO2	SO2	35.261	37.585	2.325
APU	2275070000	VOC	VOC	22.204	23.750	1.546
Commercial Aircraft, Total: All Types	2275020000	100414	Ethylbenzene	7.96E-01	1.98E+00	1.18E+00
Commercial Aircraft, Total: All Types	2275020000	100425	Styrene	1.41E+00	3.51E+00	2.10E+00
Commercial Aircraft, Total: All Types	2275020000	106990	1,3-Butadiene	7.72E+00	1.92E+01	1.15E+01
Commercial Aircraft, Total: All Types	2275020000	107028	Acrolein	1.12E+01	2.78E+01	1.66E+01
Commercial Aircraft, Total: All Types	2275020000	108883	Toluene	2.94E+00	7.30E+00	4.36E+00
Commercial Aircraft, Total: All Types	2275020000	108952	Phenol	3.32E+00	8.25E+00	4.93E+00
Commercial Aircraft, Total: All Types	2275020000	123386	Propionaldehyde	3.33E+00	8.26E+00	4.94E+00
Commercial Aircraft, Total: All Types	2275020000	1330207	Xylene	2.05E+00	5.09E+00	3.04E+00
Commercial Aircraft, Total: All Types	2275020000	191242	Benzo(ghi)perylene	7.10E-08	7.10E-08	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	193395	Indeno(1,2,3-cd)pyrene	8.43E-06	8.43E-06	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	205992	Benzo(b)fluoranthene	7.78E-06	7.78E-06	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	206440	Fluoranthene	1.02E-05	1.02E-05	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	207089	Benzo(k)fluoranthene	7.78E-06	7.78E-06	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	218019	Chrysene	5.40E-06	5.40E-06	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	50000	Formaldehyde	5.63E+01	1.40E+02	8.36E+01
Commercial Aircraft, Total: All Types	2275020000	50328	Benzo(a)pyrene	3.96E-06	3.96E-06	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	53703	Dibenzo(ah)anthracene	1.05E-05	1.05E-05	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	540841	2,2,4-Trimethylpentane	6.03E-03	6.03E-03	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	56553	Benzo(a)anthracene	5.33E-06	5.33E-06	0.00E+00

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
Commercial Aircraft, Total: All Types	2275020000	67561	Methanol	8.26E+00	2.05E+01	1.23E+01
Commercial Aircraft, Total: All Types	2275020000	71432	Benzene	7.69E+00	1.91E+01	1.14E+01
Commercial Aircraft, Total: All Types	2275020000	75070	Acetaldehyde	1.95E+01	4.85E+01	2.90E+01
Commercial Aircraft, Total: All Types	2275020000	85018	Phenanthrene	4.57E-05	4.57E-05	0.00E+00
Commercial Aircraft, Total: All Types	2275020000	91203	Naphthalene	6.91E-02	6.08E+00	6.01E+00
Commercial Aircraft, Total: All Types	2275020000	91576	2-Methyl Naphthalene	9.42E-01	2.34E+00	1.40E+00
Commercial Aircraft, Total: All Types	2275020000	98828	Isopropylbenzene	1.37E-02	3.41E-02	2.04E-02
Commercial Aircraft, Total: All Types	2275020000	CO	CO	7,047.117	7,432.287	385.170
Commercial Aircraft, Total: All Types	2275020000	NOX	NOX	7,195.088	7,496.746	301.657
Commercial Aircraft, Total: All Types	2275020000	PM10-PRI	PM10	136.478	140.771	4.293
Commercial Aircraft, Total: All Types	2275020000	PM25-PRI	PM2.5	136.425	140.718	4.293
Commercial Aircraft, Total: All Types	2275020000	SO2	SO2	800.293	834.220	33.926
Commercial Aircraft, Total: All Types	2275020000	VOC	VOC	1,360.569	1,407.149	46.581
General Aviation, Piston	2275050011	100414	Ethylbenzene	2.62E+00	2.62E+00	1.05E-03
General Aviation, Piston	2275050011	100425	Styrene	6.17E-01	6.19E-01	2.57E-03
General Aviation, Piston	2275050011	106990	1,3-Butadiene	1.79E+00	1.81E+00	1.10E-02
General Aviation, Piston	2275050011	107028	Acrolein	1.78E-01	1.93E-01	1.44E-02
General Aviation, Piston	2275050011	108883	Toluene	1.85E+01	1.85E+01	3.43E-03
General Aviation, Piston	2275050011	108952	Phenol	7.78E-03	9.37E-03	1.58E-03
General Aviation, Piston	2275050011	110543	N-Hexane	1.24E+00	1.24E+00	0.00E+00
General Aviation, Piston	2275050011	120127	Anthracene	1.89E-01	1.89E-01	0.00E+00
General Aviation, Piston	2275050011	123386	Propionaldehyde	1.38E-01	1.44E-01	6.26E-03
General Aviation, Piston	2275050011	1330207	Xylene	1.04E+01	1.04E+01	3.07E-03
General Aviation, Piston	2275050011	191242	Benzo(ghi)perylene	5.77E-02	5.77E-02	0.00E+00
General Aviation, Piston	2275050011	193395	Indeno(1,2,3-cd)pyrene	1.77E-02	1.77E-02	0.00E+00
General Aviation, Piston	2275050011	205992	Benzo(b)fluoranthene	2.66E-02	2.66E-02	0.00E+00
General Aviation, Piston	2275050011	206440	Fluoranthene	2.02E-01	2.02E-01	0.00E+00

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
General Aviation, Piston	2275050011	207089	Benzo(k)fluoranthene	2.66E-02	2.66E-02	0.00E+00
General Aviation, Piston	2275050011	208968	Acenaphthylene	9.14E-01	9.14E-01	0.00E+00
General Aviation, Piston	2275050011	218019	Chrysene	2.22E-02	2.22E-02	0.00E+00
General Aviation, Piston	2275050011	50000	Formaldehyde	5.27E+00	5.37E+00	9.84E-02
General Aviation, Piston	2275050011	50328	Benzo(a)pyrene	2.22E-02	2.22E-02	0.00E+00
General Aviation, Piston	2275050011	540841	2,2,4-Trimethylpentane	6.36E-02	6.36E-02	0.00E+00
General Aviation, Piston	2275050011	56553	Benzo(a)anthracene	2.22E-02	2.22E-02	0.00E+00
General Aviation, Piston	2275050011	67561	Methanol	4.18E-04	5.91E-04	1.73E-04
General Aviation, Piston	2275050011	71432	Benzene	7.25E+00	7.27E+00	1.25E-02
General Aviation, Piston	2275050011	7439921	Lead	1.45E+01	1.45E+01	0.00E+00
General Aviation, Piston	2275050011	75070	Acetaldehyde	1.25E+00	1.28E+00	3.01E-02
General Aviation, Piston	2275050011	83329	Acenaphthene	1.62E-01	1.62E-01	0.00E+00
General Aviation, Piston	2275050011	85018	Phenanthrene	5.63E-01	5.63E-01	0.00E+00
General Aviation, Piston	2275050011	86737	Fluorene	3.35E-01	3.35E-01	0.00E+00
General Aviation, Piston	2275050011	91203	Naphthalene	2.09E+01	2.09E+01	1.99E-02
General Aviation, Piston	2275050011	91576	2-Methyl Naphthalene	4.77E-05	6.75E-05	1.98E-05
General Aviation, Piston	2275050011	98828	Isopropylbenzene	6.97E-07	9.85E-07	2.89E-07
General Aviation, Piston	2275050011	CH4	Methane	3.79E-01	4.54E-01	7.53E-02
General Aviation, Piston	2275050011	CO	CO	11,450.145	11,450.145	0.000
General Aviation, Piston	2275050011	NOX	NOX	61.333	61.333	0.000
General Aviation, Piston	2275050011	PM10-PRI	PM10	222.379	222.379	0.000
General Aviation, Piston	2275050011	PM25-PRI	PM2.5	153.626	153.626	0.000
General Aviation, Piston	2275050011	SO2	SO2	9.628	9.628	0.000
General Aviation, Piston	2275050011	VOC	VOC	144.560	144.560	0.000
General Aviation, Turbine	2275050012	100414	Ethylbenzene	7.62E-01	8.51E-01	8.95E-02
General Aviation, Turbine	2275050012	100425	Styrene	1.35E+00	1.51E+00	1.59E-01
General Aviation, Turbine	2275050012	106990	1,3-Butadiene	7.38E+00	8.25E+00	8.68E-01

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
General Aviation, Turbine	2275050012	107028	Acrolein	1.07E+01	1.20E+01	1.26E+00
General Aviation, Turbine	2275050012	108883	Toluene	2.81E+00	3.14E+00	3.30E-01
General Aviation, Turbine	2275050012	108952	Phenol	3.18E+00	3.55E+00	3.73E-01
General Aviation, Turbine	2275050012	120127	Anthracene	4.90E-05	4.90E-05	0.00E+00
General Aviation, Turbine	2275050012	123386	Propionaldehyde	3.18E+00	3.56E+00	3.74E-01
General Aviation, Turbine	2275050012	1330207	Xylene	1.96E+00	2.19E+00	2.30E-01
General Aviation, Turbine	2275050012	191242	Benzo(ghi)perylene	6.74E-07	6.74E-07	0.00E+00
General Aviation, Turbine	2275050012	206440	Fluoranthene	1.03E-04	1.03E-04	0.00E+00
General Aviation, Turbine	2275050012	218019	Chrysene	6.91E-06	6.91E-06	0.00E+00
General Aviation, Turbine	2275050012	50000	Formaldehyde	5.39E+01	6.02E+01	6.33E+00
General Aviation, Turbine	2275050012	50328	Benzo(a)pyrene	4.06E-06	4.06E-06	0.00E+00
General Aviation, Turbine	2275050012	540841	2,2,4-Trimethylpentane	1.23E-01	1.23E-01	0.00E+00
General Aviation, Turbine	2275050012	56553	Benzo(a)anthracene	7.42E-06	7.42E-06	0.00E+00
General Aviation, Turbine	2275050012	67561	Methanol	7.90E+00	8.83E+00	9.28E-01
General Aviation, Turbine	2275050012	71432	Benzene	7.36E+00	8.22E+00	8.64E-01
General Aviation, Turbine	2275050012	75070	Acetaldehyde	1.87E+01	2.09E+01	2.20E+00
General Aviation, Turbine	2275050012	85018	Phenanthrene	4.56E-04	4.56E-04	0.00E+00
General Aviation, Turbine	2275050012	91203	Naphthalene	1.77E+00	2.65E+00	8.79E-01
General Aviation, Turbine	2275050012	91576	2-Methyl Naphthalene	9.02E-01	1.01E+00	1.06E-01
General Aviation, Turbine	2275050012	98828	Isopropylbenzene	1.31E-02	1.47E-02	1.54E-03
General Aviation, Turbine	2275050012	CH4	Methane		7.63E-04	
General Aviation, Turbine	2275050012	CO	CO	5,098.938	4,860.681	-238.257
General Aviation, Turbine	2275050012	NOX	NOX	301.354	218.382	-82.973
General Aviation, Turbine	2275050012	PM10-PRI	PM10	118.411	116.528	-1.883
General Aviation, Turbine	2275050012	PM25-PRI	PM2.5	115.744	113.861	-1.883
General Aviation, Turbine	2275050012	SO2	SO2	61.423	47.330	-14.093
General Aviation, Turbine	2275050012	VOC	VOC	534.806	497.091	-37.715

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
GSE-CNG	2268008005	100414	Ethylbenzene	5.22E-03	1.03E-02	5.11E-03
GSE-CNG	2268008005	108883	Toluene	2.32E-02	4.59E-02	2.27E-02
GSE-CNG	2268008005	110543	N-Hexane	1.19E-02	1.19E-02	0.00E+00
GSE-CNG	2268008005	123386	Propionaldehyde	3.75E-03	6.74E-03	2.99E-03
GSE-CNG	2268008005	1330207	Xylene	2.16E-02	4.27E-02	2.11E-02
GSE-CNG	2268008005	50000	Formaldehyde	1.82E-02	3.28E-02	1.45E-02
GSE-CNG	2268008005	540841	2,2,4-Trimethylpentane	1.17E-02	2.31E-02	1.14E-02
GSE-CNG	2268008005	71432	Benzene	1.36E-02	2.70E-02	1.34E-02
GSE-CNG	2268008005	75070	Acetaldehyde	6.17E-03	1.11E-02	4.92E-03
GSE-CNG	2268008005	CH4	Methane	1.91E-02	3.78E-02	1.87E-02
GSE-CNG	2268008005	CO	CO	48.097	48.097	0.000
GSE-CNG	2268008005	NOX	NOX	5.547	5.547	0.000
GSE-CNG	2268008005	PM10-PRI	PM10	0.232	0.232	0.000
GSE-CNG	2268008005	PM25-PRI	PM2.5	0.221	0.221	0.000
GSE-CNG	2268008005	SO2	SO2	0.156	0.156	0.000
GSE-CNG	2268008005	VOC	VOC	1.690	1.690	0.000
GSE-LPG	2267008005	100414	Ethylbenzene	6.60E-03	1.31E-02	6.46E-03
GSE-LPG	2267008005	108883	Toluene	2.93E-02	5.81E-02	2.88E-02
GSE-LPG	2267008005	110543	N-Hexane	1.51E-02	1.51E-02	0.00E+00
GSE-LPG	2267008005	123386	Propionaldehyde	4.74E-03	8.52E-03	3.78E-03
GSE-LPG	2267008005	1330207	Xylene	2.73E-02	5.40E-02	2.67E-02
GSE-LPG	2267008005	50000	Formaldehyde	2.31E-02	4.15E-02	1.84E-02
GSE-LPG	2267008005	540841	2,2,4-Trimethylpentane	1.48E-02	2.92E-02	1.45E-02
GSE-LPG	2267008005	71432	Benzene	1.72E-02	3.41E-02	1.69E-02
GSE-LPG	2267008005	75070	Acetaldehyde	7.80E-03	1.40E-02	6.22E-03
GSE-LPG	2267008005	CH4	Methane	2.41E-02	4.78E-02	2.36E-02
GSE-LPG	2267008005	CO	CO	60.821	60.821	0.000

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
GSE-LPG	2267008005	NOX	NOX	7.015	7.015	0.000
GSE-LPG	2267008005	PM10-PRI	PM10	0.293	0.293	0.000
GSE-LPG	2267008005	PM25-PRI	PM2.5	0.280	0.280	0.000
GSE-LPG	2267008005	SO2	SO2	0.197	0.197	0.000
GSE-LPG	2267008005	VOC	VOC	2.137	2.137	0.000
GSE-Off-highway Vehicle Diesel	2270008005	100414	Ethylbenzene	3.19E-01	6.32E-01	3.13E-01
GSE-Off-highway Vehicle Diesel	2270008005	108883	Toluene	1.42E+00	2.81E+00	1.39E+00
GSE-Off-highway Vehicle Diesel	2270008005	110543	N-Hexane	7.29E-01	7.29E-01	0.00E+00
GSE-Off-highway Vehicle Diesel	2270008005	123386	Propionaldehyde	2.30E-01	4.13E-01	1.83E-01
GSE-Off-highway Vehicle Diesel	2270008005	1330207	Xylene	1.32E+00	2.61E+00	1.29E+00
GSE-Off-highway Vehicle Diesel	2270008005	50000	Formaldehyde	1.12E+00	2.01E+00	8.91E-01
GSE-Off-highway Vehicle Diesel	2270008005	540841	2,2,4-Trimethylpentane	7.15E-01	1.42E+00	7.01E-01
GSE-Off-highway Vehicle Diesel	2270008005	71432	Benzene	8.34E-01	1.65E+00	8.17E-01
GSE-Off-highway Vehicle Diesel	2270008005	75070	Acetaldehyde	3.77E-01	6.78E-01	3.01E-01
GSE-Off-highway Vehicle Diesel	2270008005	CH4	Methane	1.17E+00	2.31E+00	1.14E+00
GSE-Off-highway Vehicle Diesel	2270008005	CO	CO	2,943.842	2,943.842	0.000
GSE-Off-highway Vehicle Diesel	2270008005	NOX	NOX	339.535	339.535	0.000
GSE-Off-highway Vehicle Diesel	2270008005	PM10-PRI	PM10	14.183	14.183	0.000
GSE-Off-highway Vehicle Diesel	2270008005	PM25-PRI	PM2.5	13.551	13.551	0.000
GSE-Off-highway Vehicle Diesel	2270008005	SO2	SO2	9.558	9.558	0.000
GSE-Off-highway Vehicle Diesel	2270008005	VOC	VOC	103.445	103.445	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	100414	Ethylbenzene	6.72E-02	1.33E-01	6.58E-02
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	108883	Toluene	2.99E-01	5.91E-01	2.93E-01
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	110543	N-Hexane	1.53E-01	1.53E-01	0.00E+00
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	123386	Propionaldehyde	4.83E-02	8.68E-02	3.85E-02
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	1330207	Xylene	2.78E-01	5.50E-01	2.72E-01
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	50000	Formaldehyde	2.35E-01	4.22E-01	1.87E-01

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	540841	2,2,4-Trimethylpentane	1.50E-01	2.98E-01	1.47E-01
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	71432	Benzene	1.75E-01	3.47E-01	1.72E-01
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	75070	Acetaldehyde	7.94E-02	1.43E-01	6.33E-02
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	CH4	Methane	2.46E-01	4.86E-01	2.41E-01
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	CO	CO	619.154	619.154	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	NOX	NOX	71.412	71.412	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	PM10-PRI	PM10	2.983	2.983	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	PM25-PRI	PM2.5	2.850	2.850	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	SO2	SO2	2.010	2.010	0.000
GSE-Off-highway Vehicle Gasoline, 4-Stroke	2265008005	VOC	VOC	21.757	21.757	0.000
Military Aircraft, Total	2275001000	100414	Ethylbenzene	3.76E-01	3.79E-01	2.64E-03
Military Aircraft, Total	2275001000	100425	Styrene	6.68E-01	6.72E-01	4.70E-03
Military Aircraft, Total	2275001000	106990	1,3-Butadiene	3.64E+00	3.67E+00	2.56E-02
Military Aircraft, Total	2275001000	107028	Acrolein	5.29E+00	5.33E+00	3.71E-02
Military Aircraft, Total	2275001000	108883	Toluene	1.39E+00	1.40E+00	9.73E-03
Military Aircraft, Total	2275001000	108952	Phenol	1.57E+00	1.58E+00	1.09E-02
Military Aircraft, Total	2275001000	123386	Propionaldehyde	1.57E+00	1.58E+00	1.11E-02
Military Aircraft, Total	2275001000	1330207	Xylene	9.68E-01	9.75E-01	6.80E-03
Military Aircraft, Total	2275001000	50000	Formaldehyde	2.66E+01	2.68E+01	1.87E-01
Military Aircraft, Total	2275001000	67561	Methanol	3.90E+00	3.93E+00	2.71E-02
Military Aircraft, Total	2275001000	71432	Benzene	3.63E+00	3.66E+00	2.56E-02
Military Aircraft, Total	2275001000	75070	Acetaldehyde	9.23E+00	9.29E+00	6.49E-02
Military Aircraft, Total	2275001000	91203	Naphthalene	9.90E-01	1.18E+00	1.87E-01
Military Aircraft, Total	2275001000	91576	2-Methyl Naphthalene	4.45E-01	4.48E-01	3.10E-03
Military Aircraft, Total	2275001000	98828	Isopropylbenzene	6.48E-03	6.53E-03	4.51E-05
Military Aircraft, Total	2275001000	CH4	Methane	3.43E-04	2.13E-03	1.79E-03
Military Aircraft, Total	2275001000	CO	CO	3,815.128	3,815.128	0.000

SCC Description	SCC	Pollutant ID	Pollutant Name	Original 2014	Revised 2014	Absolute Difference
Military Aircraft, Total	2275001000	NOX	NOX	32.121	32.121	0.000
Military Aircraft, Total	2275001000	PM10-PRI	PM10	79.221	79.221	0.000
Military Aircraft, Total	2275001000	PM25-PRI	PM2.5	77.369	77.369	0.000
Military Aircraft, Total	2275001000	SO2	SO2	5.699	5.699	0.000
Military Aircraft, Total	2275001000	VOC	VOC	215.811	215.811	0.000