



Federal Aviation
Administration

Terminal Area Forecast Summary

Fiscal Years 2019-2045



Preface

This publication provides aviation data users with summary historical and forecast statistics on passenger demand and aviation activity at U.S. airports. The summary level forecasts are based on individual airport projections.

The Terminal Area Forecast (TAF) includes forecasts for active airports in the National Plan of Integrated Airport Systems (NPIAS). The Federal Aviation Administration's (FAA) Forecast and Performance Analysis Division, Office of Aviation Policy and Plans, develops the TAF. As its primary input, the TAF initially used the national forecasts of aviation activity contained in FAA Aerospace Forecasts, Fiscal Years 2019-2039. The final TAF considers the forecasts and assumptions contained in FAA Aerospace Forecasts, Fiscal Years 2020-2040. Beginning March 26, 2020 the tables for the national forecasts can be found at:

http://www.faa.gov/data_research/aviation/aerospace_forecasts/

The TAF is available on the Internet. The TAF model and TAF database can be accessed at:

http://www.faa.gov/data_research/aviation/taf

The TAF model allows users to create their own forecast scenarios. It contains a query data application that allows the public to access and print historical (1990 to 2018) and forecast (2019 to 2045) aviation activity data by individual airport, state, or FAA region.

The FAA welcomes public comment on the forecasts, as well as suggestions for improving the usefulness of the TAF.

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Summary Historical and Forecast Highlights

- A total of 888.4 million passengers were enplaned at U.S. airports in 2018; FAA and Federal contract towered airports accounted for 883.4 million enplanements.
- The top 100 air carrier airports accounted for 839.7 million enplanements in 2018, or 95 percent of total U.S. enplanements.
- FAA towers handled 37.0 million operations (takeoffs and landings) in 2018, including 20.9 million commercial aircraft operations.
- FAA contract towers handled 14.9 million operations in 2018, including 1.9 million commercial operations.
- The 30 large hub airports¹ enplaned 636.3 million passengers in 2018. These airports are projected to enplane 1.2 billion passengers in 2045, an 81.2 percent increase over the 27-year period (or 2.2 percent annually).
- The 31 medium hub airports² recorded 147.1 million enplanements in 2018. These airports are projected to enplane 273.3 million passengers in 2045, an 85.8 percent increase over the 27-year period (or 2.3 percent annually).
- Atlanta (51.4 million enplanements), Los Angeles (42.4 million), Chicago O'Hare (39.7 million), Dallas/Ft. Worth (32.8 million), and Denver (30.9 million) led U.S. commercial airports in passenger enplanements, accounting for 22.2 percent of enplanements at U.S. airports.
- Atlanta is projected to remain the country's busiest airport, as measured by passenger enplanements, through the forecast period with a projected 87.1 million enplaned passengers in 2045. Los Angeles is projected to enplane the second most passengers (75.6 million) in 2045, followed by Chicago O'Hare with 69.1 million enplanements.
- Enplanements at Ft. Lauderdale, San Diego, Denver, and Tampa airports are projected to grow fastest among the large hub airports. The annual growth rates at these airports are forecast to increase by 2.9, 2.8, 2.7, and 2.6 percent per year, respectively, over the forecast period.

¹ Airports enplaning one percent or more of total enplanements.

² Airports enplaning 0.25 to 0.99 percent of total enplanements.

- In terms of total operations, Chicago O'Hare was the busiest U.S. airport in 2018 with 893,000 aircraft operations. Atlanta and Los Angeles were the second and third busiest airports with 890,000 and 707,000 operations, respectively.
- In 2045, Atlanta is expected to be the busiest airport in the nation, as measured by total operations, with a projected 1.39 million operations. Chicago O'Hare (1.23 million operations) is projected to be in second place and Los Angeles (1.16 million operations) is projected to be in third place.
- The FAA's Southern region airports enplaned more passengers than any other region with 205.2 million passengers in 2018, or 23 percent of U.S. enplanements. The Western Pacific region was second with 186.7 million enplanements, or 21 percent of the total.
- The Southern region is expected to lead in passenger enplanements in 2045, reaching 390.9 million. The Western Pacific region is projected to stay in second place with 340.4 million enplanements.
- The Southern region led all FAA regions in the number of airport operations with 22.9 million in 2018. The Southern region is expected to remain first in 2045 with 28.6 million operations. The Western Pacific and Great Lakes regions ran second and third in airport operations in 2018 with 17.1 and 14.9 million, respectively. In 2045, the Western Pacific region is projected to remain in second place with 20.8 million operations and the Great Lakes region is projected to remain in third place with 17.2 million operations.

Forecast Process

Introduction

The Terminal Area Forecast (TAF) contains historical and forecast data for enplanements, airport operations, tracon operations, and based aircraft. The data cover 264 FAA towered airports, 256 Federal contract tower airports, 30 terminal radar approach control facilities, and 2,790 non FAA airports. Data in the TAF are presented on a U.S. Government fiscal year basis (October through September).

The TAF is available on the Internet. The TAF model and TAF database can be accessed at:

http://www.faa.gov/data_research/aviation/taf

The TAF model allows users to create their own forecast scenarios. The TAF database allows public access to historical and forecast aviation activity data by individual airport, state, or FAA region. In addition, links to the TAF from previous years are available via the address noted above.

The TAF is prepared to assist the FAA in meeting its planning, budgeting, and staffing requirements. In addition, state aviation authorities and other aviation planners use the TAF as a basis for planning airport improvements.

This document presents a set of summary tables on airport activity statistics. The airport activity data contained in the TAF consist of the following:

- **enplanements** (sum of originating and connecting passengers) for air carriers and regionals;
- **itinerant operations** for air carriers, commuters and air taxis, general aviation (GA), and military aircraft;
- **local operations** for civil and military aircraft; and
- **tracon operations** for aircraft operations under radar control.

Data on operations presented in the TAF show historical information from 1990 through 2018 and forecasts for 2019 to 2045.³ The historical enplanement information in the TAF is from 1976 through 2018 and the 2019 figures represent estimates. The enplanement forecasts are from 2020 to 2045. Appendix A provides a detailed description of the activity data elements in the TAF. Appendix B provides a list of FAA airports by hub size and a list of FAA contract towers.

³ Operations data for FAA towers and Federal contract towers for 2019 are actual.

Forecast Method

The TAF assumes a demand driven forecast for aviation services based upon local and national economic conditions as well as conditions within the aviation industry. In other words, an airport's forecast is developed independent of the ability of the airport and the air traffic control system to furnish the capacity required to meet demand. However, if the airport historically functions under constrained conditions, the FAA forecast may reflect those constraints since they are embedded in historical data. In statistical terms, the relationships between economic growth data and data representing growth in aviation activity reflect those constraints.

The forecasts of passenger enplanements and commercial operations at airports with more than 100,000 enplanements in FY 2018 are based on a bottoms-up approach. The domestic enplanements are forecast by generating origin and destination (O&D) market demand forecasts using the DB1B (quarterly 10% sample) data to model passenger flow on a quarterly basis. The O&D passenger demand forecasts are based on regression analysis using fares, regional demographics, and regional economic factors as the independent variables. The O&D forecasts are then combined with DOT T-100 segment data to generate passenger forecasts by airport pair and segment pair. The segment pair passenger forecasts are assigned to aircraft equipment in order to produce segment pair operation forecasts. The quarterly segment pair forecasts are aggregated to produce annual airport forecasts.

Separate models are used to forecast international passenger enplanements and operations and cargo operations. The international passenger enplanements are forecast on a quarterly basis using time series analysis and T-100 segment data. The segment pair passenger enplanement forecasts are used to generate segment pair operation forecasts. The cargo operation forecasts are also generated on a quarterly basis using time series analysis and T-100 segment data. The segment pair forecasts for international passenger enplanements and operations and cargo operations are aggregated to the market pair and airport level on an annual basis.

The short run (2 year) forecasts of passenger enplanements and operations for airports with more than 100,000 enplanements in FY 2018 incorporate the use of future airline schedules.

The forecasts of passenger enplanements at FAA facilities with fewer than 100,000 enplanements in FY 2018 are based on analysis of historic trends. The commercial operations forecasts are based on the enplanement forecasts, trend analysis, and enplanements per operation. In addition the commercial forecasts for these airports may be prorated in comparison to national forecast trends by category.

Forecasts of itinerant general aviation operations and local civil operations at FAA facilities are based primarily on time series analysis. Because military operations forecasts have national security implications, the Department of Defense (DOD) provides only limited information on future aviation activity. Hence, the TAF projects military activity at its present level except when FAA has specific knowledge of a change. For instance, DOD may announce a base closing or may shift an Air Force wing from one base to another.

For non-FAA facilities, historic operations in the TAF are from the Form 5010 data. These operations levels are held constant for the forecast unless otherwise specified by a local or regional FAA official.

Forecast Review Process

Initially, FAA headquarters staff and management review forecasts for airports with more than 100,000 enplanements in FY 2018 and FAA facilities with fewer than 100,000 enplanements in FY 2018. These preliminary estimates are then submitted to FAA regional and district offices for review. Suggested changes made by the FAA regional staff are reviewed and, if determined reasonable by APO staff economists, are incorporated into the TAF. Significant increases in commercial activity forecasts are normally incorporated into the TAF only where APO receives verifiable evidence of a firm commitment by an air carrier or regional airline to initiate new service.

Summary statistics presented in the TAF differ from the national totals contained in FAA Aerospace Forecasts, Fiscal Years 2020-2040. Reasons for the differences are threefold. First, the TAF forecast methods consider airport and market specific trends. Second, the TAF and national forecast measurements vary. For example, the TAF includes facilities not serviced by the FAA in its totals. These facilities make up a large share of total general aviation operations. In addition, the TAF includes enplanements at U.S. airports only, whereas the national forecast includes enplanements on U.S. airlines at both U.S. and foreign airports. Finally, individual forecasts are not scaled to force aggregates to equal national totals.

Data Sources

The development of the TAF begins with an update of the latest historical enplanement, operation, and based aircraft statistics, using information derived from several sources. FAA's National Flight Data Center provides general airport information such as the airport name, location, and location identifier. Airport operations and tracon (radar assisted) operations data for airports with FAA and Federal contract air traffic control services are reported by FAA air traffic and Federal contract tower staff. Operations at non FAA airports are taken from FAA Form 5010 reports on aviation activity at the

airport as estimated by FAA inspectors or information provided by airport managers, state aviation activity surveys, and other sources.

U.S. domestic and international (U.S. and foreign flag carriers) enplanements are derived from the Department of Transportation's (DOT's) T-100 database. Regional carrier enplanements are derived from DOT T-100 and 298-C data.⁴

The origin and destination (O&D) data are based on the Airline Origin and Destination Survey (DB1B). This is a 10 percent sample of airline tickets from carriers reporting to the Office of Airline Information at the Bureau of Transportation Statistics.

Based aircraft data are collected by FAA inspectors, airport managers, and state aviation officials and reported on FAA Form 5010. These data show numbers of aircraft, mostly general aviation aircraft, permanently based at an airport.

⁴ In October 2002, DOT began collecting data for all airlines using the T-100 format. This change provides more detail on regional airlines, who previously reported on Form 298-C.

TAF and National Forecast Summary

Near-Term Forecasts

In 2019 total operations at FAA and contract towers increased 2.9 percent, commercial operations increased 2.7 percent, and non-commercial operations increased 3.0 percent based on OPSNET. Total enplanements at all airports were estimated to increase 3.9 percent in 2019.

In 2020 total operations at towers are forecast to increase 2.9 percent. This forecast increase in total operations at FAA and contract towers is attributable to forecast increases in air carrier (4.2 percent), air taxi/commuter (2.6 percent), itinerant general aviation (1.2 percent), and local civil operations (3.8 percent). The forecast increase in air carrier operations (aircraft with more than 60 seats) is attributable, in part, to a shift away from air taxi/commuter operations (aircraft with 60 or fewer seats) as a result of the substitution of larger aircraft for smaller regional jets. Total enplanements at all airports are forecast to increase 4.8 percent in 2020.

National Forecast Trends

Trends at individual airports reflect to varying degrees national aviation trends as well as the dynamics at individual airports. The national forecasts for FAA and contract towered airports in FAA Aerospace Forecasts, Fiscal Years 2019-2039 show aircraft operations growing at an average annual rate of 0.9 percent over the 21-year forecast period. Average annual growth rates for this period by user group are as follows: air carrier, 2.2 percent; air taxi/commuter, -0.5 percent; itinerant general aviation, 0.3 percent; and local civil, 0.4 percent. The projected average annual rate of increase for enplanements on U.S. mainline and regional carriers from the national forecast is 1.9 percent over the 21-year forecast period.

Trends by Region

There are 264 FAA towers and 256 Federal contract towers in the TAF. California had the most FAA towers with 33, followed by Texas with 19 and Florida with 18. Regions with the most FAA towers were Southern with 51, Great Lakes with 48, and Western Pacific with 46. Table S-3 presents the number of FAA and Federal contract towers by region and state.

Tables S-6 through S-11 summarize airport operations, tracon operations, enplanements, and based aircraft by region from 2015 through 2045. The Southern (22.9 million operations), Western Pacific (17.1 million), and Great Lakes (14.9 million) regions ranked as the top three FAA regions in airport operations in 2018. Operations

for all TAF airports totaled 98.4 million. The Northwest Mountain and Southern regions are projected to be the fastest growing FAA regions from 2018 to 2045 in terms of airport operations, increasing 36 percent and 25 percent, respectively.

The Southern region led FAA regions in passengers enplaned with 205.2 million in 2018, followed by the Western Pacific region with 186.7 million passengers. Enplanements in the Northwest Mountain region are projected to increase the most in percentage terms increasing 97 percent from 2018 to 2045. The next two regions with the fastest projected increase in enplanements are Southern (90 percent) and Southwest (83 percent).

In 2018, there was a national total of 165,200 based aircraft. Southern (30,800 aircraft), Great Lakes (27,300), and Western Pacific (26,600) ranked as the top three FAA regions.

Large, Medium, and Small Hubs

Table S-5 presents passenger enplanements and airport operations at FAA and contract towers by hub size. An airport qualifies as a large hub with one percent or more of total U.S. passenger enplanements. A medium hub airport enplanes from 0.25 to 0.99 percent of total U.S. passenger enplanements while small and non-hub airports enplane from 0.05 to 0.249 percent and less than 0.05 percent, respectively. Appendix B contains a list of hub airports classified by size (large, medium, small, and non-hub) as well as a list of Federal contract towers.

The 30 large hub airports enplaned 636.3 million passengers in 2018 while the 31 medium and 69 small hub airports enplaned 147.1 and 74.2 million passengers, respectively. The 390 non-hub airports enplaned 25.7 million passengers. Enplanements at large hubs are expected to increase at an annual rate of 2.23 percent over the 2018 to 2045 forecast period. Medium and small hub airports are forecast to increase 2.32 percent and 1.99 percent annually, respectively, during the forecast period.

Operations at large hub airports totaled 13.0 million in 2018 compared to 5.0 million and 6.7 million at medium and small hub airports, respectively. Operations at large hub airports are forecast to increase at an annual rate of 1.72 percent from 2018 to 2045, growing to 20.6 million. Operations at the medium hubs are forecast to rise at an annual rate of 1.58 percent from 2018 to 2045; aircraft operations at small hub airports are forecast to grow 0.81 percent per year.

In 2018 non-hub airports accounted for 27.2 million operations or 52 percent of total operations at FAA and Federal contract towers. General aviation aircraft operations accounted for the majority of operations at these smaller airports.

Large Hub Airports

Table S-1 presents enplanement forecast summaries for the large hub airports. Atlanta was the busiest airport in 2018 (51.4 million enplanements), followed by Los Angeles (42.4 million), Chicago O'Hare (39.7 million), and Dallas/Ft. Worth (32.8 million). Dallas/Ft. Worth is forecast to have the strongest growth in enplanements among the top four airports, increasing at an annual rate of 2.4 percent over the 2018 to 2045 forecast period. Los Angeles, Chicago O'Hare, and Atlanta are forecast to increase 2.2, 2.1, and 2.0 percent per year, respectively, over the forecast period. Graph S-1 shows relative enplanements growth over the next 27 years. The four airports with the fastest projected increase are Ft. Lauderdale, San Diego, Denver, and Tampa.

San Diego and Tampa are projected to make the largest upward movements in ranking of enplanements, going from 24th to 20th and 28th to 24th, respectively. LaGuardia and Washington National are projected to make the largest drops in rankings, going from 21st to 27th and 26th to 30th, respectively.

Table S-2 presents operations forecast summaries for the large hub airports. In 2018, FAA controllers at Chicago O'Hare handled 893,000 landings and takeoffs, followed by Atlanta, which totaled 890,000 operations. The next busiest airports were Los Angeles and Dallas/Ft. Worth with 707,000 and 664,000 airport operations, respectively.

In 2045, Atlanta is projected to move into first place with 1.39 million operations. Chicago O'Hare (1.23 million operations) is projected to decrease to second place. Los Angeles (1.16 million operations), and Dallas/Ft. Worth (1.14 million operations) are projected to stay in third and fourth place, respectively.

Graph S-2 shows that the five airports projected to grow the fastest in operations are San Diego, Orlando, Ft. Lauderdale, Seattle, and Boston. Seattle and Boston are expected to move into the list of the top 10 busiest airports. San Francisco and Houston Intercontinental are expected to drop out of the top 10 ranking.

TAF and National Forecast Tables

Table S-1 Enplanements at Large Hub Airports (in thousands)

Loc ID	Region	Airport Name						Rate** 2018- 2045	Airport ranking	
			2018	2018 Percent*	2019	2023	2045		2018	2045
ATL	ASO	HARTSFIELD - JACKSON ATLANTA INTL	51,406	5.79	53,114	57,375	87,102	1.97	1	1
LAX	AWP	LOS ANGELES INTL	42,381	4.77	42,645	45,922	75,580	2.17	2	2
ORD	AGL	CHICAGO O'HARE INTL	39,724	4.47	40,631	44,504	69,137	2.07	3	3
DFW	ASW	DALLAS-FORT WORTH INTL	32,765	3.69	34,709	40,527	62,453	2.42	4	5
DEN	ANM	DENVER INTL	30,858	3.47	33,136	38,669	64,114	2.75	5	4
JFK	AEA	JOHN F KENNEDY INTL	30,040	3.38	30,968	33,733	56,303	2.35	6	6
SFO	AWP	SAN FRANCISCO INTL	27,833	3.13	27,621	30,229	48,570	2.08	7	7
SEA	ANM	SEATTLE-TACOMA INTL	23,702	2.67	24,586	28,298	46,061	2.49	8	8
LAS	AWP	MC CARRAN INTL	23,561	2.65	24,206	27,552	43,321	2.28	9	11
EWR	AEA	NEWARK LIBERTY INTL	22,587	2.54	22,958	26,309	45,050	2.59	10	10
MCO	ASO	ORLANDO INTL	22,585	2.54	24,221	27,573	45,157	2.60	11	9
CLT	ASO	CHARLOTTE/DOUGLAS INTL	22,187	2.50	23,361	26,931	42,991	2.48	12	12
PHX	AWP	PHOENIX SKY HARBOR INTL	21,457	2.42	22,133	24,635	38,751	2.21	13	15
MIA	ASO	MIAMI INTL	21,099	2.38	21,226	22,993	36,358	2.04	14	17
IAH	ASW	GEORGE BUSH INTERCONTINENTAL/HOUSTON	20,832	2.35	21,746	24,189	39,752	2.42	15	13
BOS	ANE	GENERAL EDWARD LAWRENCE LOGAN INTL	19,690	2.22	20,483	23,544	39,150	2.58	16	14
MSP	AGL	MINNEAPOLIS-ST PAUL INTL/WOLD- CHAMBERLAIN	18,407	2.07	18,859	20,981	32,552	2.13	17	18
DTW	AGL	DETROIT METROPOLITAN WAYNE COUNTY	17,370	1.96	17,898	19,420	27,005	1.65	18	19
FLL	ASO	FORT LAUDERDALE/HOLLYWOOD INTL	17,098	1.92	17,826	21,075	37,166	2.92	19	16
PHL	AEA	PHILADELPHIA INTL	15,090	1.70	15,729	17,074	23,831	1.71	20	21
LGA	AEA	LAGUARDIA	15,053	1.69	15,341	16,964	18,210	0.71	21	27
BWI	AEA	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	13,348	1.50	13,114	14,488	20,940	1.68	22	23
SLC	ANM	SALT LAKE CITY INTL	12,067	1.36	12,645	14,287	23,109	2.44	23	22
SAN	AWP	SAN DIEGO INTL	11,987	1.35	12,521	14,485	25,130	2.78	24	20
IAD	AEA	WASHINGTON DULLES INTL	11,412	1.28	11,822	13,288	20,699	2.23	25	25
DCA	AEA	RONALD REAGAN WASHINGTON NATIONAL	11,411	1.28	11,477	12,797	14,146	0.80	26	30
MDW	AGL	CHICAGO MIDWAY INTL	10,752	1.21	10,187	10,514	15,563	1.38	27	29
TPA	ASO	TAMPA INTL	10,248	1.15	10,774	12,485	20,737	2.64	28	24
PDX	ANM	PORTLAND INTL	9,710	1.09	9,779	10,755	18,557	2.43	29	26
HNL	AWP	DANIEL K INOUE INTL	9,638	1.08	9,740	11,242	15,565	1.79	30	28
Total			636,301	71.63	655,456	732,836	1,153,065	2.23		

*Percent of total US enplanements.

**Annual compound growth rate.

Graph S-1 Enplanements Growth Rates for the Large Hub

Airports Fiscal Years 2018 to 2045

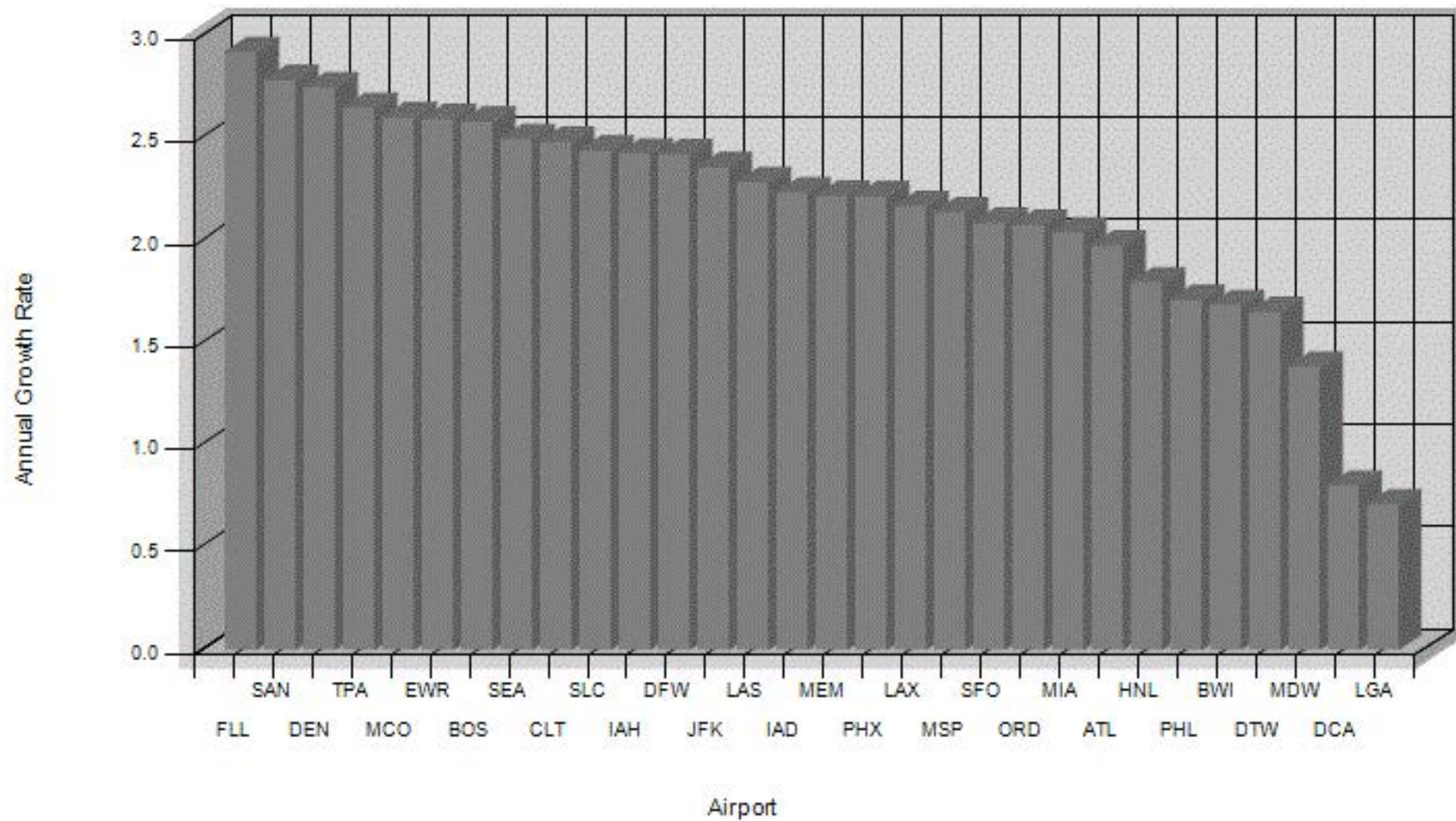


Table S-2 Airport Operations at Large Hub Airports (in thousands)

Loc ID	Region	Airport Name	2018	2018		2019	2023	2045	Rate** 2018- 2045	Airport ranking	
				Percent*						2018	2045
ORD	AGL	CHICAGO O'HARE INTL	893	0.91	915	823	1,229	1.19		1	2
ATL	ASO	HARTSFIELD - JACKSON ATLANTA INTL	890	0.90	903	929	1,391	1.67		2	1
LAX	AWP	LOS ANGELES INTL	707	0.72	695	731	1,163	1.86		3	3
DFW	ASW	DALLAS-FORT WORTH INTL	664	0.67	703	764	1,137	2.02		4	4
DEN	ANM	DENVER INTL	595	0.60	629	646	1,027	2.05		5	5
CLT	ASO	CHARLOTTE/DOUGLAS INTL	548	0.56	571	608	932	1.99		6	6
LAS	AWP	MC CARRAN INTL	537	0.55	549	608	891	1.89		7	7
SFO	AWP	SAN FRANCISCO INTL	473	0.48	461	469	725	1.59		8	13
IAH	ASW	GEORGE BUSH INTERCONTINENTAL/HOUSTON	463	0.47	474	470	735	1.73		9	12
JFK	AEA	JOHN F KENNEDY INTL	456	0.46	465	477	768	1.94		10	10
EWR	AEA	NEWARK LIBERTY INTL	451	0.46	449	455	743	1.87		11	11
SEA	ANM	SEATTLE-TACOMA INTL	434	0.44	445	502	802	2.30		12	8
PHX	AWP	PHOENIX SKY HARBOR INTL	431	0.44	436	474	721	1.92		13	14
BOS	ANE	GENERAL EDWARD LAWRENCE LOGAN INTL	423	0.43	433	487	781	2.30		14	9
MIA	ASO	MIAMI INTL	418	0.42	418	430	643	1.61		15	16
MSP	AGL	MINNEAPOLIS-ST PAUL INTL/WOLD- CHAMBERLAIN	410	0.42	405	409	611	1.49		16	18
DTW	AGL	DETROIT METROPOLITAN WAYNE COUNTY	395	0.40	395	387	534	1.12		17	19
PHL	AEA	PHILADELPHIA INTL	375	0.38	389	359	482	0.93		18	21
LGA	AEA	LAGUARDIA	368	0.37	374	380	395	0.26		19	27
MCO	ASO	ORLANDO INTL	349	0.35	364	407	654	2.35		20	15
SLC	ANM	SALT LAKE CITY INTL	335	0.34	343	359	527	1.69		21	20
FLL	ASO	FORT LAUDERDALE/HOLLYWOOD INTL	330	0.34	331	370	616	2.34		22	17
HNL	AWP	DANIEL K INOUE INTL	307	0.31	325	368	476	1.64		23	22
IAD	AEA	WASHINGTON DULLES INTL	301	0.31	309	287	402	1.08		24	25
DCA	AEA	RONALD REAGAN WASHINGTON NATIONAL	298	0.30	298	293	290	-0.09		25	30
BWI	AEA	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	268	0.27	261	283	395	1.45		26	26
MDW	AGL	CHICAGO MIDWAY INTL	245	0.25	234	240	331	1.12		27	29
PDX	ANM	PORTLAND INTL	232	0.24	237	257	412	2.14		28	24
SAN	AWP	SAN DIEGO INTL	222	0.23	230	260	441	2.58		29	23
TPA	ASO	TAMPA INTL	204	0.21	214	240	371	2.24		30	28
Total			13,021	13.23	13,253	13,771	20,626	1.72			

*Percent of total US operations.

**Annual compound growth rate.

Graph S-2 Airport Operations Growth Rates for the Large Hub

Airports Fiscal Years 2018 to 2045

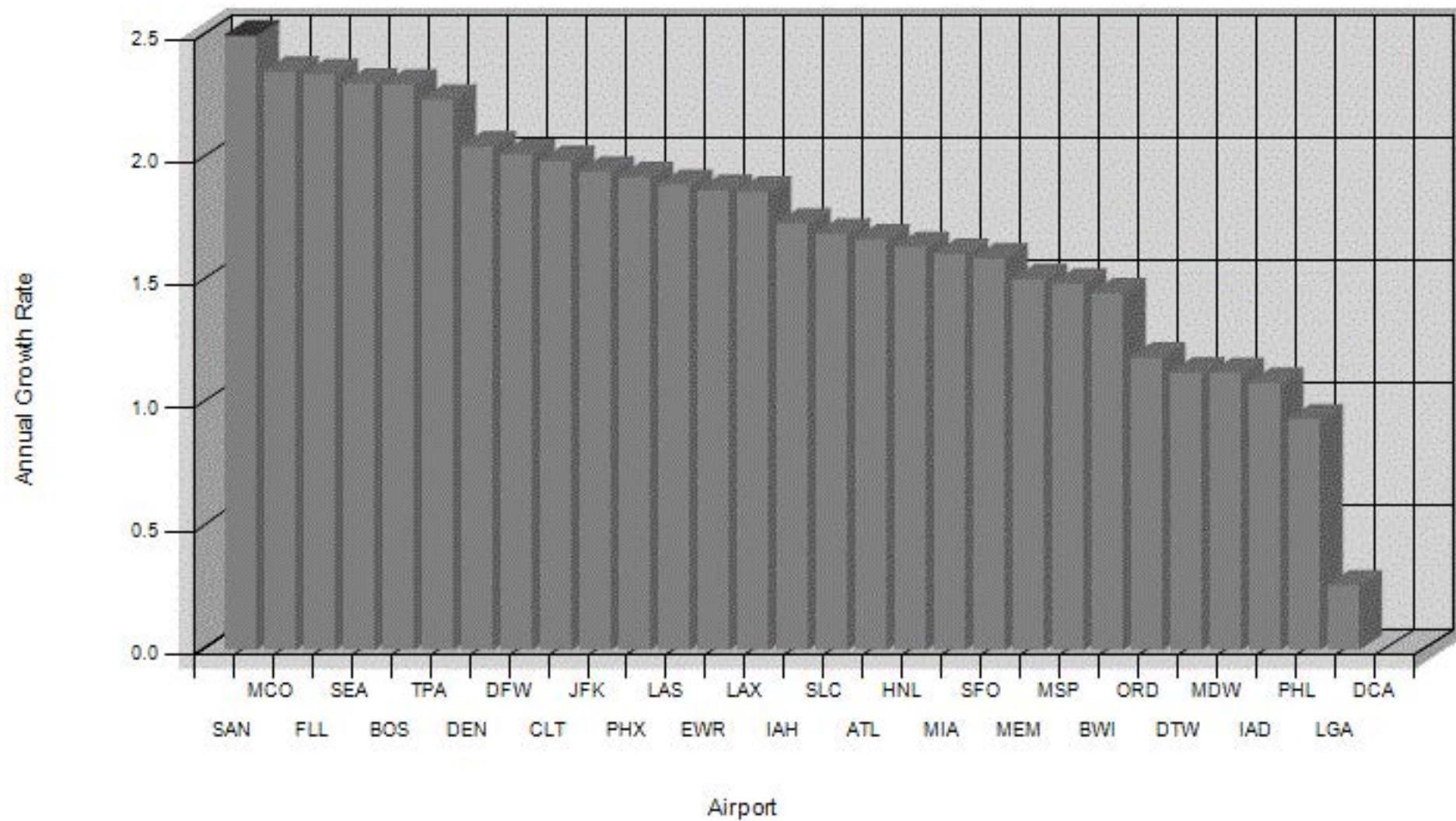


Table S-3 Air Traffic Control Towers and Contract Towers by Region and State

Region/State	FAA Towers	Contract Towers
Alaskan Region		
Alaska	4	4
Regional Total	4	4
Central Region		
Iowa	4	1
Kansas	1	8
Missouri	5	5
Nebraska	2	1
Regional Total	12	15
Eastern Region		
Delaware	1	0
District of Columbia	3	0
Maryland	2	5
New Jersey	5	1
New York	12	5
Pennsylvania	9	5
Virginia	4	2
West Virginia	3	4
Regional Total	39	22
Great Lakes Region		
Illinois	11	6
Indiana	6	4
Michigan	11	4
Minnesota	6	2
North Dakota	3	1
Ohio	7	5
South Dakota	1	1
Wisconsin	3	9
Regional Total	48	32
New England Region		
Connecticut	1	6
Maine	2	0
Massachusetts	3	8
New Hampshire	1	2
Rhode Island	1	0
Vermont	1	0
Regional Total	9	16

Region/State	FAA Towers	Contract Towers
Northwest Mountain Region		
Colorado	6	3
Idaho	2	4
Montana	3	3
Oregon	3	8
Utah	1	2
Washington	6	7
Wyoming	1	2
Regional Total	22	29
Southern Region		
Alabama	4	3
Florida	18	26
Georgia	5	6
Kentucky	4	2
Mississippi	2	7
North Carolina	6	6
Puerto Rico	1	2
South Carolina	5	4
Tennessee	5	3
Virgin Islands	1	1
Regional Total	51	60
Southwestern Region		
Arkansas	2	5
Louisiana	7	5
New Mexico	2	4
Oklahoma	3	6
Texas	19	24
Regional Total	33	44
Western Pacific Region		
Northern Mariana Is	0	1
Arizona	7	7
California	33	20
Guam	0	1
Hawaii	3	4
Nevada	3	1
Regional Total	46	34
Grand Total	264	256

Table S-4 Ranking of Top 100 FAA Towers by Total Enplanements, FY 2018

Rank	City	State	Location Identifier	Enplaned Passengers*	Percent of Total**	Cumulative Enplanements	Cumulative Percentage	Commercial Operations***	Cumulative Operations
1	ATLANTA	GA	ATL	51,406,019	5.79	51,406,019	5.79	882,244	882,244
2	LOS ANGELES	CA	LAX	42,381,489	4.77	93,787,508	10.56	688,079	1,570,323
3	CHICAGO	IL	ORD	39,723,788	4.47	133,511,296	15.03	887,699	2,458,022
4	DALLAS-FORT WORTH	TX	DFW	32,765,442	3.69	166,276,738	18.72	656,792	3,114,814
5	DENVER	CO	DEN	30,858,039	3.47	197,134,777	22.19	590,252	3,705,066
6	NEW YORK	NY	JFK	30,040,320	3.38	227,175,097	25.57	447,785	4,152,851
7	SAN FRANCISCO	CA	SFO	27,832,561	3.13	255,007,658	28.71	458,577	4,611,428
8	SEATTLE	WA	SEA	23,702,012	2.67	278,709,670	31.37	431,137	5,042,565
9	LAS VEGAS	NV	LAS	23,561,430	2.65	302,271,100	34.03	493,327	5,535,892
10	NEWARK	NJ	EWR	22,586,605	2.54	324,857,705	36.57	439,008	5,974,900
11	ORLANDO	FL	MCO	22,584,941	2.54	347,442,646	39.11	333,221	6,308,121
12	CHARLOTTE	NC	CLT	22,186,997	2.50	369,629,643	41.61	522,851	6,830,972
13	PHOENIX	AZ	PHX	21,457,331	2.42	391,086,974	44.02	408,689	7,239,661
14	MIAMI	FL	MIA	21,099,161	2.38	412,186,135	46.40	400,555	7,640,216
15	HOUSTON	TX	IAH	20,832,434	2.35	433,018,569	48.74	451,963	8,092,179
16	BOSTON	MA	BOS	19,689,514	2.22	452,708,083	50.96	408,066	8,500,245
17	MINNEAPOLIS	MN	MSP	18,407,440	2.07	471,115,523	53.03	397,103	8,897,348
18	DETROIT	MI	DTW	17,370,425	1.96	488,485,948	54.99	388,531	9,285,879
19	FORT LAUDERDALE	FL	FLL	17,098,170	1.92	505,584,118	56.91	292,151	9,578,030
20	PHILADELPHIA	PA	PHL	15,089,770	1.70	520,673,888	58.61	360,388	9,938,418
21	NEW YORK	NY	LGA	15,053,381	1.69	535,727,269	60.31	362,771	10,301,189
22	BALTIMORE	MD	BWI	13,348,077	1.50	549,075,346	61.81	254,303	10,555,492
23	SALT LAKE CITY	UT	SLC	12,067,064	1.36	561,142,410	63.17	281,690	10,837,182
24	SAN DIEGO	CA	SAN	11,986,551	1.35	573,128,961	64.52	210,982	11,048,164
25	WASHINGTON	DC	IAD	11,412,484	1.28	584,541,445	65.80	264,577	11,312,741
26	WASHINGTON	DC	DCA	11,411,368	1.28	595,952,813	67.08	291,448	11,604,189
27	CHICAGO	IL	MDW	10,752,110	1.21	606,704,923	68.29	210,133	11,814,322
28	TAMPA	FL	TPA	10,248,150	1.15	616,953,073	69.45	181,088	11,995,410
29	PORTLAND	OR	PDX	9,710,400	1.09	626,663,473	70.54	211,954	12,207,364
30	HONOLULU	HI	HNL	9,637,810	1.08	636,301,283	71.63	252,800	12,460,164
31	DALLAS	TX	DAL	7,822,667	0.88	644,123,950	72.51	173,883	12,634,047
32	NASHVILLE	TN	BNA	7,540,637	0.85	651,664,587	73.36	174,160	12,808,207
33	AUSTIN	TX	AUS	7,529,976	0.85	659,194,563	74.20	149,532	12,957,739
34	ST LOUIS	MO	STL	7,514,677	0.85	666,709,240	75.05	186,018	13,143,757
35	HOUSTON	TX	HOU	6,998,192	0.79	673,707,432	75.84	149,834	13,293,591
36	SAN JOSE	CA	SJC	6,857,311	0.77	680,564,743	76.61	156,545	13,450,136
37	OAKLAND	CA	OAK	6,658,946	0.75	687,223,689	77.36	158,651	13,608,787
38	NEW ORLEANS	LA	MSY	6,489,180	0.73	693,712,869	78.09	124,339	13,733,126
39	RALEIGH/DURHAM	NC	RDU	6,104,619	0.69	699,817,488	78.78	151,427	13,884,553
40	SACRAMENTO	CA	SMF	5,775,216	0.65	705,592,704	79.43	116,719	14,001,272

Table S-4 Ranking of Top 100 FAA Towers by Total Enplanements, FY 2018

Rank	City	State	Location Identifier	Enplaned Passengers*	Percent of Total**	Cumulative Enplanements	Cumulative Percentage	Commercial Operations***	Cumulative Operations
41	KANSAS CITY	MO	MCI	5,740,044	0.65	711,332,748	80.07	121,711	14,122,983
42	SANTA ANA	CA	SNA	5,265,227	0.59	716,597,975	80.67	111,149	14,234,132
43	SAN ANTONIO	TX	SAT	4,708,540	0.53	721,306,515	81.20	113,890	14,348,022
44	CLEVELAND	OH	CLE	4,648,561	0.52	725,955,076	81.72	117,089	14,465,111
45	PITTSBURGH	PA	PIT	4,612,536	0.52	730,567,612	82.24	139,108	14,604,219
46	INDIANAPOLIS	IN	IND	4,587,855	0.52	735,155,467	82.75	149,407	14,753,626
47	FORT MYERS	FL	RSW	4,547,800	0.51	739,703,267	83.27	73,135	14,826,761
48	COVINGTON	KY	CVG	4,185,184	0.47	743,888,451	83.74	154,295	14,981,056
49	COLUMBUS	OH	CMH	3,891,913	0.44	747,780,364	84.18	111,880	15,092,936
50	SAN JUAN	PR	SJU	3,872,478	0.44	751,652,842	84.61	121,217	15,214,153
51	KAHULUI	HI	OGG	3,555,797	0.40	755,208,639	85.01	125,009	15,339,162
52	MILWAUKEE	WI	MKE	3,456,340	0.39	758,664,979	85.40	99,176	15,438,338
53	WEST PALM BEACH	FL	PBI	3,256,783	0.37	761,921,762	85.77	84,209	15,522,547
54	WINDSOR LOCKS	CT	BDL	3,250,090	0.37	765,171,852	86.13	78,847	15,601,394
55	JACKSONVILLE	FL	JAX	3,024,620	0.34	768,196,472	86.47	76,724	15,678,118
56	BURBANK	CA	BUR	2,634,964	0.30	770,831,436	86.77	75,502	15,753,620
57	ALBUQUERQUE	NM	ABQ	2,624,302	0.30	773,455,738	87.07	85,595	15,839,215
58	ANCHORAGE	AK	ANC	2,603,395	0.29	776,059,133	87.36	190,719	16,029,934
59	BUFFALO	NY	BUF	2,487,349	0.28	778,546,482	87.64	70,674	16,100,608
60	ONTARIO	CA	ONT	2,445,032	0.28	780,991,514	87.91	83,436	16,184,044
61	OMAHA	NE	OMA	2,407,966	0.27	783,399,480	88.18	72,778	16,256,822
62	MEMPHIS	TN	MEM	2,182,219	0.25	785,581,699	88.43	203,162	16,459,984
63	PROVIDENCE	RI	PVD	2,151,115	0.24	787,732,814	88.67	50,299	16,510,283
64	CHARLESTON	SC	CHS	2,123,988	0.24	789,856,802	88.91	62,135	16,572,418
65	OKLAHOMA CITY	OK	OKC	2,041,507	0.23	791,898,309	89.14	60,202	16,632,620
66	RENO	NV	RNO	2,029,809	0.23	793,928,118	89.37	56,341	16,688,961
67	RICHMOND	VA	RIC	1,972,703	0.22	795,900,821	89.59	65,846	16,754,807
68	LONG BEACH	CA	LGB	1,952,855	0.22	797,853,676	89.81	44,208	16,799,015
69	BOISE	ID	BOI	1,901,171	0.21	799,754,847	90.03	59,397	16,858,412
70	KAILUA/KONA	HI	KOA	1,840,026	0.21	801,594,873	90.23	55,437	16,913,849
71	SPOKANE	WA	GEG	1,817,634	0.20	803,412,507	90.44	52,376	16,966,225
72	LOUISVILLE	KY	SDF	1,817,125	0.20	805,229,632	90.64	153,466	17,119,691
73	NORFOLK	VA	ORF	1,799,535	0.20	807,029,167	90.84	55,044	17,174,735
74	TUCSON	AZ	TUS	1,722,940	0.19	808,752,107	91.04	49,812	17,224,547
75	LIHUE	HI	LIH	1,623,358	0.18	810,375,465	91.22	109,885	17,334,432
76	GRAND RAPIDS	MI	GRR	1,573,801	0.18	811,949,266	91.40	45,323	17,379,755
77	EL PASO	TX	ELP	1,559,910	0.18	813,509,176	91.57	52,055	17,431,810
78	ORLANDO	FL	SFB	1,505,115	0.17	815,014,291	91.74	117,174	17,548,984
79	TULSA	OK	TUL	1,463,586	0.16	816,477,877	91.91	48,542	17,597,526
80	ALBANY	NY	ALB	1,423,202	0.16	817,901,079	92.07	46,975	17,644,501

Table S-4 Ranking of Top 100 FAA Towers by Total Enplanements, FY 2018

Rank	City	State	Location Identifier	Enplaned Passengers*	Percent of Total**	Cumulative Enplanements	Cumulative Percentage	Commercial Operations***	Cumulative Operations
81	BIRMINGHAM	AL	BHM	1,422,958	0.16	819,324,037	92.23	52,448	17,696,949
82	GUAM	GU	GUM	1,327,218	0.15	820,651,255	92.38	24,855	17,721,804
83	SAVANNAH	GA	SAV	1,312,834	0.15	821,964,089	92.53	47,558	17,769,362
84	DES MOINES	IA	DSM	1,311,091	0.15	823,275,180	92.67	39,497	17,808,859
85	ROCHESTER	NY	ROC	1,270,965	0.14	824,546,145	92.82	46,346	17,855,205
86	MYRTLE BEACH	SC	MYR	1,248,700	0.14	825,794,845	92.96	96,216	17,951,421
87	PALM SPRINGS	CA	PSP	1,131,987	0.13	826,926,832	93.08	30,708	17,982,129
88	ST PETERSBURG-CLEARWATER	FL	PIE	1,120,745	0.13	828,047,577	93.21	20,062	18,002,191
89	SYRACUSE	NY	SYR	1,108,279	0.12	829,155,856	93.34	43,766	18,045,957
90	GREER	SC	GSP	1,105,687	0.12	830,261,543	93.46	36,614	18,082,571
91	KNOXVILLE	TN	TYS	1,042,828	0.12	831,304,371	93.58	44,569	18,127,140
92	PORTLAND	ME	PWM	1,024,577	0.12	832,328,948	93.69	34,633	18,161,773
93	LITTLE ROCK	AR	LIT	1,013,012	0.11	833,341,960	93.81	35,299	18,197,072
94	MADISON	WI	MSN	1,005,835	0.11	834,347,795	93.92	32,806	18,229,878
95	PENSACOLA	FL	PNS	937,208	0.11	835,285,003	94.03	28,696	18,258,574
96	MANCHESTER	NH	MHT	936,693	0.11	836,221,696	94.13	36,893	18,295,467
97	GREENSBORO	NC	GSO	915,482	0.10	837,137,178	94.23	48,868	18,344,335
98	DAYTON	OH	DAY	869,265	0.10	838,006,443	94.33	38,685	18,383,020
99	COLORADO SPRINGS	CO	COS	866,123	0.10	838,872,566	94.43	29,165	18,412,185
100	NEW YORK	NY	ISP	849,167	0.10	839,721,733	94.52	19,180	18,431,365
Total of airports 101 thru 520				43,657,261	4.91	883,378,994	99.44	4,389,856	22,821,221

*Enplanements include air carrier, commuter and international.
**Percent is of national total enplanements.
***Operations include itinerant air carrier and air taxi only.

Table S-5 Summary of Enplanements and Airport Operations at FAA Towers and Contract Towers

Enplanements at Towered Airports

	Count	2018	2045	Annual Compound Growth Rate 2018-2045
Large Hubs	30	636,301,283	1,153,065,217	2.23
Medium Hubs	31	147,098,197	273,257,668	2.32
Small Hubs	69	74,238,872	126,404,589	1.99
Non Hubs	390	25,740,642	43,065,409	1.92
Total	520	883,378,994	1,595,792,883	2.21

Operations at Towered Airports

	Count	2018	2045	Annual Compound Growth Rate 2018-2045
Large Hubs	30	13,021,026	20,626,904	1.72
Medium Hubs	31	4,974,608	7,595,277	1.58
Small Hubs	69	6,706,755	8,332,947	0.81
Non Hubs	390	27,185,703	31,389,104	0.53
Total	520	51,888,092	67,944,232	1.00

Table S-6 Commercial Airport Operations Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANÉ)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	1,008,977	707,688	3,563,852	3,606,037	919,404	2,260,756	5,251,137	2,713,659	4,538,884	24,570,394
2016	973,226	718,157	3,612,550	3,618,727	931,837	2,323,152	5,330,283	2,661,833	4,645,971	24,815,736
2017	976,856	728,832	3,602,483	3,609,198	931,361	2,377,290	5,393,123	2,611,372	4,826,924	25,057,439
2018	992,334	736,434	3,666,318	3,683,934	944,519	2,444,237	5,607,754	2,716,234	4,799,104	25,590,868
Forecast										
2019	1,002,454	748,227	3,693,498	3,723,728	934,304	2,523,745	5,887,515	2,798,147	4,893,477	26,205,095
2020	956,066	759,734	3,776,510	3,822,424	970,471	2,644,106	6,150,193	2,934,264	5,074,056	27,087,824
2021	961,646	760,895	3,777,817	3,800,854	980,387	2,668,791	6,214,227	2,952,526	5,154,667	27,271,810
2022	967,398	755,838	3,730,699	3,723,831	986,333	2,674,552	6,241,858	2,947,871	5,226,134	27,254,514
2023	973,098	745,909	3,644,895	3,606,063	989,543	2,666,738	6,243,334	2,926,667	5,289,046	27,085,293
2024	978,828	749,290	3,660,367	3,610,731	1,001,221	2,698,359	6,323,810	2,953,515	5,367,927	27,344,048
2025	984,657	758,050	3,713,435	3,660,073	1,016,109	2,744,472	6,434,322	2,999,424	5,455,015	27,765,557
2026	990,575	767,154	3,767,670	3,710,996	1,031,481	2,792,402	6,548,153	3,046,977	5,545,264	28,200,672
2027	996,716	776,759	3,819,464	3,764,060	1,047,422	2,842,137	6,666,845	3,096,390	5,638,320	28,648,113
2028	1,003,074	787,036	3,871,993	3,820,129	1,064,141	2,894,006	6,787,908	3,148,549	5,735,847	29,112,683
2029	1,009,521	797,624	3,925,649	3,877,606	1,081,382	2,947,191	6,911,041	3,202,071	5,835,514	29,587,599
2030	1,016,256	808,599	3,980,476	3,936,835	1,099,118	3,002,140	7,036,656	3,257,408	5,938,147	30,075,635
2031	1,023,112	819,924	4,036,696	3,997,809	1,117,397	3,059,050	7,166,158	3,314,721	6,044,636	30,579,503
2032	1,030,068	831,508	4,093,970	4,060,244	1,136,134	3,117,739	7,299,173	3,373,304	6,153,874	31,096,014
2033	1,037,123	843,143	4,151,429	4,123,056	1,155,039	3,177,175	7,432,578	3,432,477	6,263,825	31,615,845
2034	1,044,261	854,821	4,208,995	4,186,002	1,174,036	3,237,273	7,565,792	3,492,147	6,374,640	32,137,967
2035	1,051,558	866,692	4,266,881	4,249,790	1,193,230	3,298,610	7,700,167	3,552,728	6,486,862	32,666,518
2036	1,059,080	878,872	4,325,877	4,314,990	1,212,813	3,361,196	7,837,679	3,614,644	6,601,963	33,207,114
2037	1,066,730	890,898	4,384,466	4,379,689	1,232,357	3,424,032	7,973,993	3,676,593	6,717,333	33,746,091
2038	1,074,466	902,918	4,443,151	4,444,429	1,251,972	3,487,175	8,111,080	3,738,388	6,832,872	34,286,451
2039	1,082,313	915,088	4,502,046	4,509,633	1,271,707	3,551,217	8,249,361	3,800,605	6,948,887	34,830,857
2040	1,090,251	927,437	4,561,489	4,575,851	1,291,688	3,616,934	8,389,143	3,864,044	7,067,112	35,383,949
2041	1,098,348	939,937	4,621,495	4,642,582	1,311,865	3,683,834	8,530,984	3,928,078	7,186,882	35,944,005
2042	1,106,559	952,604	4,681,851	4,710,003	1,332,271	3,751,838	8,674,457	3,993,346	7,307,753	36,510,682
2043	1,114,810	965,395	4,742,738	4,778,321	1,352,912	3,821,032	8,819,881	4,059,688	7,430,740	37,085,517
2044	1,123,207	978,481	4,804,465	4,847,942	1,373,872	3,891,823	8,967,817	4,127,329	7,556,406	37,671,342
2045	1,131,763	991,983	4,867,428	4,919,443	1,395,330	3,964,808	9,119,215	4,196,664	7,685,213	38,271,847

*Includes air carrier and commuter/air taxi operations at all airports.

Table S-7 Itinerant Airport Operations Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANÉ)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	1,497,293	2,541,663	6,715,092	8,511,059	2,100,342	6,171,568	14,654,179	7,534,682	10,677,912	60,403,790
2016	1,464,830	2,529,913	6,785,183	8,608,823	2,057,275	6,155,683	14,531,138	7,481,520	10,681,806	60,296,171
2017	1,476,476	2,539,964	6,746,965	8,574,197	2,028,388	6,191,813	14,673,083	7,406,944	10,836,252	60,474,082
2018	1,505,744	2,507,056	6,755,005	8,640,182	2,012,242	6,378,179	14,919,522	7,621,838	10,966,535	61,306,303
Forecast										
2019	1,509,131	2,516,528	6,819,963	8,673,041	2,012,781	6,519,929	15,322,146	7,768,914	10,937,239	62,079,672
2020	1,463,019	2,532,709	6,930,356	8,791,439	2,057,293	6,695,489	15,665,152	7,940,008	11,125,668	63,201,133
2021	1,469,216	2,534,866	6,942,113	8,782,817	2,068,022	6,753,893	15,752,478	7,972,242	11,215,742	63,491,389
2022	1,475,588	2,530,808	6,905,554	8,718,860	2,074,783	6,792,385	15,803,809	7,981,783	11,296,735	63,580,305
2023	1,481,911	2,521,885	6,830,429	8,614,187	2,078,810	6,817,715	15,829,248	7,974,958	11,369,238	63,518,381
2024	1,488,265	2,526,278	6,856,691	8,631,920	2,091,306	6,883,161	15,933,983	8,016,407	11,457,779	63,885,790
2025	1,494,722	2,536,055	6,920,674	8,694,604	2,107,016	6,963,670	16,069,023	8,077,185	11,554,583	64,417,532
2026	1,501,270	2,546,178	6,985,962	8,759,199	2,123,213	7,046,618	16,207,673	8,139,856	11,654,613	64,964,582
2027	1,508,044	2,556,808	7,048,949	8,826,109	2,139,980	7,132,015	16,351,617	8,204,619	11,757,511	65,525,652
2028	1,515,037	2,568,117	7,112,784	8,896,189	2,157,531	7,220,224	16,498,247	8,272,396	11,864,946	66,105,471
2029	1,522,124	2,579,741	7,177,875	8,967,815	2,175,608	7,310,420	16,647,283	8,341,783	11,974,590	66,697,239
2030	1,529,502	2,591,764	7,244,027	9,041,292	2,194,180	7,403,077	16,799,134	8,413,255	12,087,266	67,303,497
2031	1,537,004	2,604,145	7,311,713	9,116,670	2,213,299	7,498,414	16,955,210	8,486,974	12,203,869	67,927,298
2032	1,544,607	2,616,798	7,380,591	9,193,761	2,232,879	7,596,255	17,115,140	8,562,235	12,323,285	68,565,551
2033	1,552,314	2,629,516	7,449,812	9,271,446	2,252,631	7,695,604	17,275,823	8,638,371	12,443,489	69,209,006
2034	1,560,108	2,642,287	7,519,287	9,349,508	2,272,478	7,796,385	17,436,661	8,715,297	12,564,627	69,856,638
2035	1,568,062	2,655,266	7,589,239	9,428,676	2,292,524	7,899,218	17,599,019	8,793,429	12,687,250	70,512,683
2036	1,576,244	2,668,566	7,660,471	9,509,502	2,312,964	8,004,100	17,764,884	8,873,207	12,812,820	71,182,758
2037	1,584,557	2,681,727	7,731,447	9,590,130	2,333,365	8,110,054	17,929,919	8,953,335	12,938,734	71,853,268
2038	1,592,963	2,694,894	7,802,671	9,671,052	2,353,840	8,217,160	18,096,121	9,033,623	13,064,893	72,527,217
2039	1,601,481	2,708,224	7,874,272	9,752,706	2,374,438	8,326,042	18,263,913	9,114,655	13,191,613	73,207,344
2040	1,610,094	2,721,748	7,946,566	9,835,636	2,395,286	8,437,480	18,433,598	9,197,245	13,320,618	73,898,271
2041	1,618,869	2,735,437	8,019,592	9,919,351	2,416,335	8,550,406	18,605,747	9,280,772	13,451,249	74,597,758
2042	1,627,761	2,749,307	8,093,137	10,004,038	2,437,617	8,665,999	18,779,934	9,365,895	13,583,058	75,306,746
2043	1,636,696	2,763,316	8,167,393	10,089,901	2,459,137	8,783,741	18,956,503	9,452,453	13,717,059	76,026,199
2044	1,645,781	2,777,636	8,242,664	10,177,362	2,480,977	8,904,068	19,136,012	9,540,672	13,853,822	76,758,994
2045	1,655,028	2,792,387	8,319,355	10,267,002	2,503,318	9,027,592	19,319,414	9,630,966	13,993,812	77,508,874

*Includes itinerant air carrier, commuter/air taxi, general aviation and military operations at all airports.

TABLE S-8 Total Airport Operations Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANE)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	1,861,740	4,543,040	10,568,040	14,786,715	3,351,428	10,190,992	22,499,963	12,937,371	16,705,448	97,444,737
2016	1,837,237	4,486,945	10,601,702	14,823,615	3,277,456	10,034,765	22,105,671	13,096,748	16,624,738	96,888,877
2017	1,858,575	4,491,226	10,509,127	14,808,443	3,193,482	10,037,357	22,372,409	13,015,095	16,860,379	97,146,093
2018	1,900,849	4,431,732	10,486,983	14,880,385	3,189,888	10,325,497	22,863,238	13,222,590	17,102,805	98,403,967
Forecast										
2019	1,912,780	4,462,312	10,634,373	14,978,927	3,226,030	10,516,681	23,553,723	13,394,163	17,263,547	99,942,536
2020	1,873,886	4,491,902	10,811,489	15,155,966	3,292,416	10,779,829	24,033,536	13,621,571	17,586,299	101,646,894
2021	1,881,070	4,495,145	10,839,331	15,167,845	3,304,047	10,868,434	24,150,345	13,673,106	17,690,511	102,069,834
2022	1,888,430	4,492,182	10,819,331	15,124,564	3,311,712	10,935,676	24,231,674	13,702,250	17,785,726	102,291,545
2023	1,895,741	4,484,365	10,760,982	15,040,689	3,316,650	10,990,161	24,287,492	13,715,353	17,872,541	102,363,974
2024	1,903,084	4,489,872	10,804,240	15,079,044	3,330,059	11,085,250	24,422,992	13,777,102	17,975,483	102,867,126
2025	1,910,530	4,500,773	10,885,455	15,162,777	3,346,687	11,195,885	24,589,174	13,858,509	18,086,769	103,536,559
2026	1,918,142	4,512,030	10,968,228	15,248,780	3,363,804	11,309,514	24,759,371	13,942,160	18,201,369	104,223,398
2027	1,925,981	4,523,801	11,048,942	15,337,354	3,381,494	11,426,139	24,935,408	14,028,265	18,318,923	104,926,307
2028	1,934,039	4,536,264	11,130,749	15,429,456	3,399,974	11,546,175	25,114,588	14,117,752	18,441,102	105,650,099
2029	1,942,191	4,549,052	11,214,056	15,523,362	3,418,982	11,668,799	25,296,615	14,209,237	18,565,586	106,387,880
2030	1,950,637	4,562,244	11,298,408	15,619,279	3,438,490	11,794,527	25,481,915	14,303,232	18,693,197	107,141,929
2031	1,959,208	4,575,803	11,384,557	15,717,398	3,458,547	11,923,578	25,671,908	14,399,872	18,824,826	107,915,697
2032	1,967,880	4,589,646	11,472,169	15,817,594	3,479,069	12,055,789	25,866,225	14,498,458	18,959,364	108,706,194
2033	1,976,730	4,603,564	11,560,410	15,918,770	3,499,769	12,190,189	26,061,783	14,598,338	19,094,786	109,504,339
2034	1,985,668	4,617,547	11,649,178	16,020,797	3,520,566	12,326,716	26,257,987	14,699,440	19,231,232	110,309,131
2035	1,994,767	4,631,744	11,738,704	16,124,352	3,541,565	12,466,003	26,456,213	14,802,201	19,369,262	111,124,811
2036	2,004,094	4,646,272	11,829,796	16,229,973	3,562,961	12,608,077	26,658,468	14,907,048	19,510,337	111,957,026
2037	2,013,553	4,660,677	11,920,930	16,335,803	3,584,328	12,751,970	26,860,408	15,012,711	19,651,839	112,792,219
2038	2,023,107	4,675,094	12,012,613	16,442,331	3,605,772	12,897,791	27,064,060	15,119,024	19,793,685	113,633,477
2039	2,032,773	4,689,688	12,104,984	16,550,021	3,627,341	13,046,170	27,269,835	15,226,547	19,936,190	114,483,549
2040	2,042,608	4,704,486	12,198,365	16,659,413	3,649,164	13,197,943	27,478,061	15,336,117	20,081,080	115,347,237
2041	2,052,618	4,719,460	12,292,805	16,770,025	3,671,192	13,351,558	27,689,312	15,447,137	20,227,705	116,221,812
2042	2,062,760	4,734,625	12,388,092	16,882,058	3,693,457	13,509,210	27,903,173	15,560,258	20,375,613	117,109,246
2043	2,072,957	4,749,942	12,484,433	16,995,721	3,715,965	13,669,916	28,119,999	15,675,351	20,525,810	118,010,094
2044	2,083,317	4,765,580	12,582,142	17,111,454	3,738,796	13,834,133	28,340,360	15,792,651	20,678,877	118,927,310
2045	2,093,856	4,781,660	12,681,613	17,229,836	3,762,133	14,002,489	28,565,225	15,912,587	20,835,269	119,864,668

*Includes all itinerant and local operations at all airports.

TABLE S-9 TRACON Operations Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANE)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	370,069	1,220,302	5,657,365	5,022,396	1,184,633	2,860,833	9,230,649	5,150,627	6,338,774	37,035,648
2016	365,668	1,239,021	5,727,081	5,106,956	1,246,005	2,928,600	9,419,543	5,140,572	6,397,624	37,571,070
2017	358,680	1,258,237	5,614,327	5,150,934	1,245,198	3,012,336	9,675,985	5,142,501	6,491,009	37,949,207
2018	364,077	1,260,095	5,589,742	5,199,620	1,390,869	3,190,552	9,896,662	5,300,649	6,663,950	38,856,216
Forecast										
2019	370,837	1,249,110	5,646,863	5,118,560	1,430,461	3,284,036	10,278,165	5,423,416	6,475,233	39,276,681
2020	347,580	1,260,775	5,742,860	5,234,496	1,482,972	3,415,813	10,633,892	5,571,926	6,640,429	40,330,743
2021	350,641	1,260,500	5,738,494	5,204,447	1,490,935	3,439,774	10,697,961	5,591,472	6,717,534	40,491,758
2022	353,826	1,251,606	5,673,061	5,106,243	1,491,560	3,442,720	10,709,268	5,581,908	6,780,355	40,390,547
2023	356,951	1,236,075	5,560,131	4,958,476	1,487,006	3,430,555	10,683,051	5,550,920	6,830,696	40,093,861
2024	360,169	1,239,148	5,576,043	4,960,988	1,498,456	3,462,154	10,772,770	5,581,408	6,908,366	40,359,502
2025	363,486	1,249,520	5,639,155	5,017,540	1,515,861	3,509,764	10,905,357	5,636,058	6,998,441	40,835,182
2026	366,860	1,260,280	5,703,676	5,075,879	1,533,819	3,559,038	11,041,981	5,692,499	7,091,643	41,325,675
2027	370,406	1,271,578	5,765,960	5,136,545	1,552,410	3,610,137	11,183,806	5,750,942	7,187,742	41,829,526
2028	374,114	1,283,612	5,829,266	5,200,498	1,571,869	3,663,389	11,328,728	5,812,328	7,288,321	42,352,125
2029	377,881	1,295,991	5,893,901	5,266,055	1,591,908	3,717,946	11,476,189	5,875,193	7,391,035	42,886,099
2030	381,907	1,308,799	5,959,932	5,333,559	1,612,509	3,774,276	11,626,546	5,940,021	7,496,727	43,434,276
2031	386,017	1,322,008	6,027,625	5,403,093	1,633,727	3,832,551	11,781,298	6,007,009	7,606,317	43,999,645
2032	390,190	1,335,516	6,096,599	5,474,275	1,655,465	3,892,623	11,939,963	6,075,423	7,718,789	44,578,843
2033	394,430	1,349,084	6,165,824	5,545,868	1,677,389	3,953,403	12,099,183	6,144,473	7,831,981	45,161,635
2034	398,716	1,362,702	6,235,189	5,617,595	1,699,414	4,014,794	12,258,353	6,214,046	7,945,952	45,746,761
2035	403,132	1,376,529	6,304,989	5,690,242	1,721,660	4,077,408	12,418,930	6,284,615	8,061,371	46,338,876
2036	407,731	1,390,707	6,376,100	5,764,481	1,744,354	4,141,272	12,583,044	6,356,657	8,179,626	46,943,972
2037	412,436	1,404,721	6,446,787	5,838,148	1,766,996	4,205,322	12,746,001	6,428,709	8,298,061	47,547,181
2038	417,192	1,418,725	6,517,606	5,911,837	1,789,718	4,269,639	12,909,829	6,500,639	8,416,670	48,151,855
2039	422,019	1,432,892	6,588,723	5,986,005	1,812,577	4,334,826	13,075,009	6,573,047	8,535,766	48,760,864
2040	426,901	1,447,262	6,660,533	6,061,298	1,835,715	4,401,666	13,241,981	6,646,778	8,657,056	49,379,190
2041	431,890	1,461,804	6,733,025	6,137,202	1,859,083	4,469,668	13,411,281	6,721,194	8,779,927	50,005,074
2042	436,950	1,476,531	6,805,981	6,213,868	1,882,707	4,538,734	13,582,504	6,796,931	8,903,914	50,638,120
2043	442,036	1,491,406	6,879,608	6,291,532	1,906,599	4,608,949	13,755,980	6,873,841	9,029,994	51,279,945
2044	447,218	1,506,610	6,954,254	6,370,655	1,930,859	4,680,783	13,932,370	6,952,188	9,158,837	51,933,774
2045	452,517	1,522,282	7,030,383	6,451,882	1,955,682	4,754,809	14,112,672	7,032,379	9,290,794	52,603,400

TABLE S-10 Enplanements Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANE)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	4,740,012	16,798,303	126,371,813	104,550,315	23,938,226	73,860,171	181,837,100	92,166,318	162,122,322	786,384,580
2016	4,823,423	17,618,426	131,354,948	108,775,184	25,292,220	79,419,049	190,462,825	94,205,060	170,635,001	822,586,136
2017	4,804,351	18,599,796	133,998,171	110,746,570	26,626,219	83,815,706	194,862,327	94,862,367	178,300,220	846,615,727
2018	4,938,056	19,578,767	140,188,140	113,937,105	28,437,792	88,042,441	205,216,310	101,353,517	186,668,171	888,360,299
Forecast										
2019	5,014,410	20,275,862	143,661,204	116,328,606	29,225,751	92,782,774	217,836,169	106,721,050	190,778,432	922,624,258
2020	4,727,455	20,679,837	148,465,189	120,358,042	30,544,628	99,439,418	230,422,038	113,381,201	199,166,575	967,184,383
2021	4,807,470	21,073,139	151,906,901	122,757,439	31,234,281	101,845,273	235,989,757	115,764,063	203,992,064	989,370,387
2022	4,887,468	21,445,317	155,302,082	125,101,291	31,915,937	104,229,488	241,444,351	118,062,065	208,716,772	1,011,104,771
2023	4,965,413	21,797,554	158,637,061	127,374,927	32,585,505	106,558,735	246,785,096	120,329,372	213,270,194	1,032,303,857
2024	5,043,073	22,141,159	161,765,544	129,595,990	33,246,614	108,846,066	252,025,824	122,563,632	217,733,494	1,052,961,396
2025	5,122,940	22,499,087	164,802,563	131,871,639	33,921,175	111,185,667	257,356,010	124,870,589	222,290,731	1,073,920,401
2026	5,204,580	22,873,803	167,895,455	134,219,432	34,616,853	113,611,797	262,823,732	127,263,001	227,019,407	1,095,528,060
2027	5,289,834	23,273,315	170,910,213	136,673,300	35,337,256	116,135,315	268,543,438	129,755,516	231,910,286	1,117,828,473
2028	5,379,987	23,706,182	173,972,132	139,271,137	36,093,419	118,774,105	274,510,798	132,393,827	237,055,995	1,141,157,582
2029	5,471,362	24,153,453	177,089,952	141,935,779	36,873,400	121,485,074	280,632,332	135,103,038	242,320,656	1,165,065,046
2030	5,565,546	24,619,026	180,268,205	144,685,053	37,676,778	124,292,138	286,881,076	137,907,972	247,754,904	1,189,650,698
2031	5,662,802	25,101,464	183,521,313	147,524,229	38,506,602	127,206,885	293,354,880	140,819,748	253,403,179	1,215,101,102
2032	5,762,120	25,596,819	186,832,805	150,439,720	39,359,333	130,219,880	300,031,844	143,801,249	259,213,246	1,241,257,016
2033	5,863,589	26,093,559	190,155,296	153,370,204	40,221,460	133,273,404	306,718,985	146,813,422	265,056,856	1,267,566,775
2034	5,966,469	26,591,308	193,482,260	156,301,837	41,088,197	136,362,290	313,375,959	149,850,491	270,941,557	1,293,960,368
2035	6,071,768	27,097,710	196,824,751	159,272,486	41,964,832	139,514,775	320,085,438	152,933,272	276,901,815	1,320,666,847
2036	6,179,742	27,618,875	200,225,275	162,316,698	42,861,018	142,734,609	326,968,456	156,086,627	283,019,427	1,348,010,727
2037	6,288,294	28,130,997	203,603,051	165,330,377	43,755,961	145,966,646	333,762,460	159,238,951	289,139,734	1,375,216,471
2038	6,398,303	28,641,642	206,983,855	168,342,971	44,654,636	149,213,017	340,591,637	162,382,775	295,261,943	1,402,470,779
2039	6,510,708	29,158,984	210,373,628	171,375,658	45,559,892	152,505,658	347,480,014	165,547,209	301,404,067	1,429,915,818
2040	6,624,896	29,684,208	213,790,271	174,457,367	46,477,529	155,884,354	354,434,592	168,774,503	307,661,523	1,457,789,243
2041	6,743,110	30,216,123	217,235,466	177,563,049	47,405,633	159,325,521	361,506,074	172,035,040	314,000,457	1,486,030,473
2042	6,863,738	30,755,637	220,698,064	180,700,827	48,345,489	162,820,703	368,653,707	175,359,766	320,393,614	1,514,591,545
2043	6,984,592	31,300,954	224,189,335	183,883,141	49,297,372	166,377,647	375,904,260	178,740,680	326,900,739	1,543,578,720
2044	7,109,044	31,860,574	227,724,917	187,130,973	50,265,344	170,020,991	383,287,953	182,188,829	333,558,551	1,573,147,176
2045	7,237,435	32,440,467	231,324,281	190,472,367	51,258,328	173,780,300	390,862,773	185,724,184	340,387,752	1,603,487,887

*Includes both tower and non-tower airports.

TABLE S-11 Based Aircraft Summary by Region*

Fiscal Year	Alaska (AAL)	Central (ACE)	Eastern (AEA)	Great Lakes (AGL)	New England (ANĒ)	Northwest Mountain (ANM)	Southern (ASO)	Southwest (ASW)	Western Pacific (AWP)	National Total
Historical										
2015	4,656	9,556	14,870	27,013	5,716	22,256	30,798	21,658	27,349	163,872
2016	4,693	10,044	15,457	28,367	5,943	23,626	33,047	23,734	28,851	173,762
2017	4,724	9,754	14,580	27,412	5,667	22,557	31,875	22,615	27,725	166,909
2018	4,718	9,676	14,568	27,288	5,538	22,992	30,841	22,969	26,610	165,200
Forecast										
2019	4,733	9,720	14,692	27,465	5,587	23,197	31,124	23,182	26,855	166,555
2020	4,745	9,758	14,805	27,652	5,642	23,422	31,368	23,379	27,094	167,865
2021	4,761	9,807	14,945	27,832	5,698	23,675	31,640	23,608	27,335	169,301
2022	4,775	9,853	15,077	28,014	5,745	23,903	31,910	23,828	27,588	170,693
2023	4,790	9,919	15,214	28,200	5,808	24,166	32,202	24,053	27,858	172,210
2024	4,807	9,969	15,331	28,368	5,865	24,387	32,500	24,270	28,115	173,612
2025	4,820	10,018	15,443	28,544	5,919	24,612	32,759	24,480	28,372	174,967
2026	4,834	10,065	15,557	28,713	5,973	24,830	33,016	24,694	28,631	176,313
2027	4,848	10,113	15,679	28,888	6,028	25,051	33,284	24,908	28,891	177,690
2028	4,862	10,164	15,797	29,059	6,082	25,274	33,558	25,121	29,153	179,070
2029	4,876	10,213	15,910	29,235	6,137	25,496	33,840	25,340	29,418	180,465
2030	4,890	10,266	16,032	29,411	6,192	25,718	34,118	25,574	29,687	181,888
2031	4,904	10,315	16,154	29,592	6,246	25,943	34,421	25,801	29,953	183,329
2032	4,918	10,364	16,274	29,764	6,302	26,167	34,701	26,029	30,220	184,739
2033	4,932	10,416	16,393	29,943	6,358	26,394	34,980	26,255	30,492	186,163
2034	4,946	10,465	16,510	30,122	6,416	26,624	35,273	26,490	30,768	187,614
2035	4,960	10,517	16,634	30,298	6,473	26,859	35,559	26,733	31,049	189,082
2036	4,974	10,567	16,753	30,474	6,531	27,096	35,883	26,977	31,336	190,591
2037	4,988	10,618	16,881	30,651	6,591	27,334	36,180	27,226	31,627	192,096
2038	5,002	10,671	17,006	30,835	6,654	27,575	36,485	27,476	31,919	193,623
2039	5,016	10,726	17,131	31,018	6,718	27,818	36,785	27,730	32,216	195,158
2040	5,030	10,784	17,259	31,200	6,784	28,069	37,103	27,990	32,515	196,734
2041	5,044	10,839	17,388	31,378	6,850	28,308	37,439	28,245	32,816	198,307
2042	5,058	10,896	17,518	31,558	6,918	28,562	37,757	28,505	33,117	199,889
2043	5,072	10,953	17,649	31,737	6,986	28,821	38,080	28,769	33,425	201,492
2044	5,086	11,011	17,780	31,917	7,056	29,091	38,420	29,043	33,739	203,143
2045	5,101	11,070	17,915	32,099	7,127	29,362	38,755	29,321	34,058	204,808

*Includes both tower and non-tower airports.

Appendix A: Description of Activity Measures

Air Carrier Enplanements

These data summarize domestic enplaned passengers (originations and connections) of U.S. commercial air carriers and international enplanements for both U.S. and foreign flag carriers submitted to the U.S. Department of Transportation (DOT), Bureau of Transportation Statistics (BTS) on T-100 reports. Estimates include both scheduled and non-scheduled enplaned passengers.

Regional Enplanements

Starting in FY 2003, FAA includes in the regional category enplanements for those airlines whose primary function is to provide passenger feed to mainline carriers, regardless of aircraft size. As of October 2002, all scheduled and non-scheduled operations using aircraft with 10 or more seats to transport regional passengers must report on T-100.

Historic enplanement data includes originating passengers on scheduled commuter or regional carriers as reported on DOT Form 41 and 298-C; where possible, adjustments were made to include connecting passengers. Historically, Form 298-C included carriers operating at least five scheduled round trips per week whose entire fleet consists of aircraft having 60 seats or less.

Aircraft Operations

FAA air traffic controllers count landings and takeoffs at FAA towered airports. Controllers employed by an FAA contractor count operations at FAA contract towers. At non-FAA facilities, operations counts represent an estimate.

Air carrier operations represent either takeoffs or landings of commercial aircraft with seating capacity of more than 60 seats.

Commuter/air taxi operations are one category. Commuter operations include takeoffs and landings by aircraft with 60 or fewer seats that transport regional passengers on scheduled commercial flights. Air taxi operations include takeoffs and landings by aircraft with 60 or fewer seats conducted on non-scheduled or for-hire flights.

Itinerant general aviation and local civil operations represent all civil aviation aircraft takeoffs and landings not classified as commercial. Military operations represent takeoffs and landings by military aircraft. Operations are either itinerant or local flights.

Local Operations

Aircraft operating in the traffic pattern or within sight of the tower, or aircraft known to be departing or arriving from flight in local practice areas, or aircraft executing practice instrument approaches at the airport.

Itinerant Operations

FAA reports all aircraft operations other than local operations as itinerant. Essentially, these data represent takeoffs and landings of aircraft going from one airport to another.

Tracon Operations

These data include arrivals, departures, and overflights conducted by an FAA radar approach control facility for aircraft under Instrument Flight Rule (IFR) or Visual Flight Rule (VFR) plans.

Overflights

These data include operations of aircraft in transit through the approach control facility airspace.

Appendix B: List of FAA Towers by Hub Size and FAA Contract Towers

Table B-1 List of Large Hub Towers

Location Identifier	Region	Airport Name	City, State
ATL	ASO	HARTSFIELD - JACKSON ATLANTA INTL	ATLANTA, GA
BOS	ANE	GENERAL EDWARD LAWRENCE LOGAN INTL	BOSTON, MA
BWI	AEA	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	BALTIMORE, MD
CLT	ASO	CHARLOTTE/DOUGLAS INTL	CHARLOTTE, NC
DCA	AEA	RONALD REAGAN WASHINGTON NATIONAL	WASHINGTON, DC
DEN	ANM	DENVER INTL	DENVER, CO
DFW	ASW	DALLAS-FORT WORTH INTL	DALLAS-FORT WORTH, TX
DTW	AGL	DETROIT METROPOLITAN WAYNE COUNTY	DETROIT, MI
EWR	AEA	NEWARK LIBERTY INTL	NEWARK, NJ
FLL	ASO	FORT LAUDERDALE/HOLLYWOOD INTL	FORT LAUDERDALE, FL
HNL	AWP	DANIEL K INOUE INTL	HONOLULU, HI
IAD	AEA	WASHINGTON DULLES INTL	WASHINGTON, DC
IAH	ASW	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HOUSTON, TX
JFK	AEA	JOHN F KENNEDY INTL	NEW YORK, NY
LAS	AWP	MC CARRAN INTL	LAS VEGAS, NV
LAX	AWP	LOS ANGELES INTL	LOS ANGELES, CA
LGA	AEA	LAGUARDIA	NEW YORK, NY
MCO	ASO	ORLANDO INTL	ORLANDO, FL
MDW	AGL	CHICAGO MIDWAY INTL	CHICAGO, IL
MIA	ASO	MIAMI INTL	MIAMI, FL
MSP	AGL	MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN	MINNEAPOLIS, MN
ORD	AGL	CHICAGO O'HARE INTL	CHICAGO, IL
PDX	ANM	PORTLAND INTL	PORTLAND, OR
PHL	AEA	PHILADELPHIA INTL	PHILADELPHIA, PA
PHX	AWP	PHOENIX SKY HARBOR INTL	PHOENIX, AZ
SAN	AWP	SAN DIEGO INTL	SAN DIEGO, CA
SEA	ANM	SEATTLE-TACOMA INTL	SEATTLE, WA
SFO	AWP	SAN FRANCISCO INTL	SAN FRANCISCO, CA
SLC	ANM	SALT LAKE CITY INTL	SALT LAKE CITY, UT
TPA	ASO	TAMPA INTL	TAMPA, FL

Listed 30 Airports

Table B-2 List of Medium Hub Towers

Location Identifier	Region	Airport Name	City, State
ABQ	ASW	ALBUQUERQUE INTL SUNPORT	ALBUQUERQUE, NM
ANC	AAL	TED STEVENS ANCHORAGE INTL	ANCHORAGE, AK
AUS	ASW	AUSTIN-BERGSTROM INTL	AUSTIN, TX
BDL	ANE	BRADLEY INTL	WINDSOR LOCKS, CT
BNA	ASO	NASHVILLE INTL	NASHVILLE, TN
BUF	AEA	BUFFALO NIAGARA INTL	BUFFALO, NY
BUR	AWP	BOB HOPE	BURBANK, CA
CLE	AGL	CLEVELAND-HOPKINS INTL	CLEVELAND, OH
CMH	AGL	JOHN GLENN COLUMBUS INTL	COLUMBUS, OH
CVG	ASO	CINCINNATI/NORTHERN KENTUCKY INTL	COVINGTON, KY
DAL	ASW	DALLAS LOVE FIELD	DALLAS, TX
HOU	ASW	WILLIAM P HOBBY	HOUSTON, TX
IND	AGL	INDIANAPOLIS INTL	INDIANAPOLIS, IN
JAX	ASO	JACKSONVILLE INTL	JACKSONVILLE, FL
MCI	ACE	KANSAS CITY INTL	KANSAS CITY, MO
MKE	AGL	GENERAL MITCHELL INTL	MILWAUKEE, WI
MSY	ASW	LOUIS ARMSTRONG NEW ORLEANS INTL	NEW ORLEANS, LA
OAK	AWP	METROPOLITAN OAKLAND INTL	OAKLAND, CA
OGG	AWP	KAHULUI	KAHULUI, HI
OMA	ACE	EPPLEY AIRFIELD	OMAHA, NE
ONT	AWP	ONTARIO INTL	ONTARIO, CA
PBI	ASO	PALM BEACH INTL	WEST PALM BEACH, FL
PIT	AEA	PITTSBURGH INTL	PITTSBURGH, PA
RDU	ASO	RALEIGH-DURHAM INTL	RALEIGH/DURHAM, NC
RSW	ASO	SOUTHWEST FLORIDA INTL	FORT MYERS, FL
SAT	ASW	SAN ANTONIO INTL	SAN ANTONIO, TX
SJC	AWP	NORMAN Y MINETA SAN JOSE INTL	SAN JOSE, CA
SJU	ASO	LUIS MUNOZ MARIN INTL	SAN JUAN, PR
SMF	AWP	SACRAMENTO INTL	SACRAMENTO, CA
SNA	AWP	JOHN WAYNE AIRPORT-ORANGE COUNTY	SANTA ANA, CA
STL	ACE	ST LOUIS LAMBERT INTL	ST LOUIS, MO

Listed 31 Airports

Table B-3 List of Small Hub Towers

Location Identifier	Region	Airport Name	City, State
ACY	AEA	ATLANTIC CITY INTL	ATLANTIC CITY, NJ
ALB	AEA	ALBANY INTL	ALBANY, NY
AVL	ASO	ASHEVILLE RGNL	ASHEVILLE, NC
BHM	ASO	BIRMINGHAM-SHUTTLESWORTH INTL	BIRMINGHAM, AL
BOI	ANM	BOISE AIR TERMINAL/GOWEN FLD	BOISE, ID
BTV	ANE	BURLINGTON INTL	BURLINGTON, VT
BZN	ANM	BOZEMAN YELLOWSTONE INTL	BOZEMAN, MT
CAE	ASO	COLUMBIA METROPOLITAN	COLUMBIA, SC
CAK	AGL	AKRON-CANTON RGNL	AKRON, OH
CHA	ASO	LOVELL FIELD	CHATTANOOGA, TN
CHS	ASO	CHARLESTON AFB/INTL	CHARLESTON, SC
CID	ACE	THE EASTERN IOWA	CEDAR RAPIDS, IA
COS	ANM	CITY OF COLORADO SPRINGS MUNI	COLORADO SPRINGS, CO
DAY	AGL	JAMES M COX DAYTON INTL	DAYTON, OH
DSM	ACE	DES MOINES INTL	DES MOINES, IA
ECP	ASO	NORTHWEST FLORIDA BEACHES INTL	PANAMA CITY, FL
ELP	ASW	EL PASO INTL	EL PASO, TX
EUG	ANM	MAHLON SWEET FIELD	EUGENE, OR
FAI	AAL	FAIRBANKS INTL	FAIRBANKS, AK
FAT	AWP	FRESNO YOSEMITE INTL	FRESNO, CA
FSD	AGL	JOE FOSS FIELD	SIOUX FALLS, SD
GEG	ANM	SPOKANE INTL	SPOKANE, WA
GRR	AGL	GERALD R FORD INTL	GRAND RAPIDS, MI
GSN	AWP	FRANCISCO C ADA/SAIPAN INTL	SAIPAN ISLAND, CQ
GSO	ASO	PIEDMONT TRIAD INTL	GREENSBORO, NC
GSP	ASO	GREENVILLE SPARTANBURG INTL	GREER, SC
GUM	AWP	GUAM INTL	GUAM, GU
HPN	AEA	WESTCHESTER COUNTY	WHITE PLAINS, NY
HSV	ASO	HUNTSVILLE INTL-CARL T JONES FIELD	HUNTSVILLE, AL
ICT	ACE	WICHITA DWIGHT D EISENHOWER NATIONAL	WICHITA, KS
ILM	ASO	WILMINGTON INTL	WILMINGTON, NC
ISP	AEA	LONG ISLAND MAC ARTHUR	NEW YORK, NY
ITO	AWP	HILO INTL	HILO, HI
IWA	AWP	PHOENIX-MESA GATEWAY	PHOENIX, AZ
JAN	ASO	JACKSON-MEDGAR WILEY EVERS INTL	JACKSON, MS
KOA	AWP	ELLISON ONIZUKA KONA INTL AT KEAHOLE	KAILUA/KONA, HI
LBB	ASW	LUBBOCK PRESTON SMITH INTL	LUBBOCK, TX
LEX	ASO	BLUE GRASS	LEXINGTON, KY
LGB	AWP	LONG BEACH /DAUGHERTY FIELD/	LONG BEACH, CA
LIH	AWP	LIHUE	LIHUE, HI
LIT	ASW	BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD	LITTLE ROCK, AR
MAF	ASW	MIDLAND INTL AIR AND SPACE PORT	MIDLAND, TX
MDT	AEA	HARRISBURG INTL	HARRISBURG, PA
MEM	ASO	MEMPHIS INTL	MEMPHIS, TN
MFR	ANM	ROGUE VALLEY INTL - MEDFORD	MEDFORD, OR
MHT	ANE	MANCHESTER	MANCHESTER, NH
MSN	AGL	DANE COUNTY RGNL-TRUAX FIELD	MADISON, WI
MYR	ASO	MYRTLE BEACH INTL	MYRTLE BEACH, SC
OKC	ASW	WILL ROGERS WORLD	OKLAHOMA CITY, OK
ORF	AEA	NORFOLK INTL	NORFOLK, VA
PGD	ASO	PUNTA GORDA	PUNTA GORDA, FL
PIE	ASO	ST PETE-CLEARWATER INTL	ST PETERSBURG-CLEARWATER , FL
PNS	ASO	PENSACOLA INTL	PENSACOLA, FL
PSP	AWP	PALM SPRINGS INTL	PALM SPRINGS, CA
PVD	ANE	THEODORE FRANCIS GREEN STATE	PROVIDENCE, RI
PWM	ANE	PORTLAND INTL JETPORT	PORTLAND, ME
RIC	AEA	RICHMOND INTL	RICHMOND, VA
RNO	AWP	RENO/TAHOE INTL	RENO, NV
ROC	AEA	GREATER ROCHESTER INTL	ROCHESTER, NY
SAV	ASO	SAVANNAH/HILTON HEAD INTL	SAVANNAH, GA

Table B-3 List of Small Hub Towers			
Location Identifier	Region	Airport Name	City, State
SDF	ASO	LOUISVILLE INTL-STANDIFORD FIELD	LOUISVILLE, KY
SFB	ASO	ORLANDO SANFORD INTL	ORLANDO, FL
SGF	ACE	SPRINGFIELD-BRANSON NATIONAL	SPRINGFIELD, MO
SRQ	ASO	SARASOTA/BRADENTON INTL	SARASOTA/BRADENTON, FL
SYR	AEA	SYRACUSE HANCOCK INTL	SYRACUSE, NY
TUL	ASW	TULSA INTL	TULSA, OK
TUS	AWP	TUCSON INTL	TUCSON, AZ
TYS	ASO	MC GHEE TYSON	KNOXVILLE, TN
XNA	ASW	NORTHWEST ARKANSAS RGNL	FAYETTEVILLE/SPRINGDALE/ROGERS , AR

Listed 69 Airports

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
ABE	AEA	LEHIGH VALLEY INTL	ALLENTOWN, PA
ABI	ASW	ABILENE RGNL	ABILENE, TX
ABY	ASO	SOUTHWEST GEORGIA RGNL	ALBANY, GA
ACK	ANE	NANTUCKET MEMORIAL	NANTUCKET, MA
ACT	ASW	WACO RGNL	WACO, TX
ADM	ASW	ARDMORE MUNI	ARDMORE, OK
ADQ	AAL	KODIAK	KODIAK, AK
ADS	ASW	ADDISON	DALLAS, TX
ADW	AEA	JOINT BASE ANDREWS	CAMP SPRINGS, MD
AEG	ASW	DOUBLE EAGLE II	ALBUQUERQUE, NM
AEX	ASW	ALEXANDRIA INTL	ALEXANDRIA, LA
AFW	ASW	FORT WORTH ALLIANCE	FORT WORTH, TX
AGC	AEA	ALLEGHENY COUNTY	PITTSBURGH, PA
AGS	ASO	AUGUSTA RGNL AT BUSH FIELD	AUGUSTA, GA
AHN	ASO	ATHENS/BEN EPPS	ATHENS, GA
AKN	AAL	KING SALMON	KING SALMON, AK
ALN	AGL	ST LOUIS RGNL	ALTON/ST LOUIS, IL
ALO	ACE	WATERLOO RGNL	WATERLOO, IA
ALW	ANM	WALLA WALLA RGNL	WALLA WALLA, WA
AMA	ASW	RICK HUSBAND AMARILLO INTL	AMARILLO, TX
ANE	AGL	ANOKA COUNTY-BLAINE (JANES FIELD)	MINNEAPOLIS, MN
APA	ANM	CENTENNIAL	DENVER, CO
APC	AWP	NAPA COUNTY	NAPA, CA
APF	ASO	NAPLES MUNI	NAPLES, FL
ARA	ASW	ACADIANA RGNL	NEW IBERIA, LA
ARB	AGL	ANN ARBOR MUNI	ANN ARBOR, MI
ARR	AGL	AURORA MUNI	CHICAGO/AURORA, IL
ASE	ANM	ASPEN-PITKIN CO/SARDY FIELD	ASPEN, CO
ASG	ASW	SPRINGDALE MUNI	SPRINGDALE, AR
ASH	ANE	BOIRE FIELD	NASHUA, NH
ATW	AGL	APPLETON INTL	APPLETON, WI
AVP	AEA	WILKES-BARRE/SCRANTON INTL	WILKES-BARRE/SCRANTON, PA
AZO	AGL	KALAMAZOO/BATTLE CREEK INTL	KALAMAZOO, MI
BAF	ANE	WESTFIELD-BARNES RGNL	WESTFIELD/SPRINGFIELD, MA
BAK	AGL	COLUMBUS MUNI	COLUMBUS, IN
BAZ	ASW	NEW BRAUNFELS RGNL	NEW BRAUNFELS, TX
BBG	ACE	BRANSON	BRANSON, MO
BCT	ASO	BOCA RATON	BOCA RATON, FL
BDR	ANE	IGOR I SIKORSKY MEMORIAL	BRIDGEPORT, CT
BED	ANE	LAURENCE G HANSCOM FLD	BEDFORD, MA
BET	AAL	BETHEL	BETHEL, AK
BFI	ANM	BOEING FIELD/KING COUNTY INTL	SEATTLE, WA
BFL	AWP	MEADOWS FIELD	BAKERSFIELD, CA
BFM	ASO	MOBILE DOWNTOWN	MOBILE, AL
BGM	AEA	GREATER BINGHAMTON/EDWIN A LINK FIELD	BINGHAMTON, NY
BGR	ANE	BANGOR INTL	BANGOR, ME
BIL	ANM	BILLINGS LOGAN INTL	BILLINGS, MT
BIS	AGL	BISMARCK MUNI	BISMARCK, ND
BJC	ANM	ROCKY MOUNTAIN METROPOLITAN	DENVER, CO
BKL	AGL	BURKE LAKEFRONT	CLEVELAND, OH
BKV	ASO	BROOKSVILLE-TAMPA BAY RGNL	BROOKSVILLE, FL
BLI	ANM	BELLINGHAM INTL	BELLINGHAM, WA
BMG	AGL	MONROE COUNTY	BLOOMINGTON, IN
BMI	AGL	CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL	BLOOMINGTON/NORMAL, IL
BPT	ASW	JACK BROOKS RGNL	BEAUMONT/PORT ARTHUR, TX
BQN	ASO	RAFAEL HERNANDEZ	AGUADILLA, PR
BRO	ASW	BROWNSVILLE/SOUTH PADRE ISLAND INTL	BROWNSVILLE, TX
BTL	AGL	W K KELLOGG	BATTLE CREEK, MI
BTR	ASW	BATON ROUGE METROPOLITAN- RYAN FIELD	BATON ROUGE, LA
BVY	ANE	BEVERLY RGNL	BEVERLY, MA
CCR	AWP	BUCHANAN FIELD	CONCORD, CA
CDW	AEA	ESSEX COUNTY	CALDWELL, NJ
CGF	AGL	CUYAHOGA COUNTY	CLEVELAND, OH
CHD	AWP	CHANDLER MUNI	CHANDLER, AZ
CHO	AEA	CHARLOTTESVILLE-ALBEMARLE	CHARLOTTESVILLE, VA
CIC	AWP	CHICO MUNI	CHICO, CA
CKB	AEA	NORTH CENTRAL WEST VIRGINIA	CLARKSBURG, WV
CLL	ASW	EASTERWOOD FIELD	COLLEGE STATION, TX
CMA	AWP	CAMARILLO	CAMARILLO, CA
CMI	AGL	UNIVERSITY OF ILLINOIS-WILLARD	CHAMPAIGN/URBANA, IL

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
CNO	AWP	CHINO	CHINO, CA
CNW	ASW	TSTC WACO	WACO, TX
COU	ACE	COLUMBIA RGNL	COLUMBIA, MO
CPR	ANM	CASPER/NATRONA COUNTY INTL	CASPER, WY
CPS	AGL	ST LOUIS DOWNTOWN	CAHOKIA/ST LOUIS, IL
CRE	ASO	GRAND STRAND	NORTH MYRTLE BEACH, SC
CRG	ASO	JACKSONVILLE EXECUTIVE AT CRAIG	JACKSONVILLE, FL
CRP	ASW	CORPUS CHRISTI INTL	CORPUS CHRISTI, TX
CRQ	AWP	MC CLELLAN-PALOMAR	CARLSBAD, CA
CRW	AEA	YEAGER	CHARLESTON, WV
CSG	ASO	COLUMBUS	COLUMBUS, GA
CWA	AGL	CENTRAL WISCONSIN	MOSINEE, WI
CWF	ASW	CHENNAULT INTL	LAKE CHARLES, LA
CXO	ASW	CONROE-NORTH HOUSTON RGNL	HOUSTON, TX
CXY	AEA	CAPITAL CITY	HARRISBURG, PA
CYS	ANM	CHEYENNE RGNL/JERRY OLSON FIELD	CHEYENNE, WY
DAB	ASO	DAYTONA BEACH INTL	DAYTONA BEACH, FL
DBQ	ACE	DUBUQUE RGNL	DUBUQUE, IA
DEC	AGL	DECATUR	DECATUR, IL
DET	AGL	COLEMAN A YOUNG MUNI	DETROIT, MI
DHN	ASO	DOTHAN RGNL	DOTHAN, AL
DLH	AGL	DULUTH INTL	DULUTH, MN
DPA	AGL	DUPAGE	CHICAGO/WEST CHICAGO, IL
DTN	ASW	SHREVEPORT DOWNTOWN	SHREVEPORT, LA
DTO	ASW	DENTON ENTERPRISE	DENTON, TX
DTS	ASO	DESTIN EXECUTIVE	DESTIN, FL
DVT	AWP	PHOENIX DEER VALLEY	PHOENIX, AZ
DWH	ASW	DAVID WAYNE HOOKS MEMORIAL	HOUSTON, TX
DXR	ANE	DANBURY MUNI	DANBURY, CT
EAU	AGL	CHIPPEWA VALLEY RGNL	EAU CLAIRE, WI
EGE	ANM	EAGLE COUNTY RGNL	EAGLE, CO
ELM	AEA	ELMIRA/CORNING RGNL	ELMIRA/CORNING, NY
EMT	AWP	SAN GABRIEL VALLEY	EL MONTE, CA
ENA	AAL	KENAI MUNI	KENAI, AK
ENW	AGL	KENOSHA RGNL	KENOSHA, WI
ERI	AEA	ERIE INTL/TOM RIDGE FIELD	ERIE, PA
ESN	AEA	EASTON/NEWNAM FIELD	EASTON, MD
EVB	ASO	NEW SMYRNA BEACH MUNI	NEW SMYRNA BEACH, FL
EVV	AGL	EVANSVILLE RGNL	EVANSVILLE, IN
EWB	ANE	NEW BEDFORD RGNL	NEW BEDFORD, MA
EWN	ASO	COASTAL CAROLINA REGIONAL	NEW BERN, NC
EYW	ASO	KEY WEST INTL	KEY WEST, FL
FAR	AGL	HECTOR INTL	FARGO, ND
FAY	ASO	FAYETTEVILLE RGNL/GRANNIS FIELD	FAYETTEVILLE, NC
FCM	AGL	FLYING CLOUD	MINNEAPOLIS, MN
FDK	AEA	FREDERICK MUNI	FREDERICK, MD
FFZ	AWP	FALCON FLD	MESA, AZ
FIN	ASO	FLAGLER EXECUTIVE	PALM COAST, FL
FLG	AWP	FLAGSTAFF PULLIAM	FLAGSTAFF, AZ
FLO	ASO	FLORENCE RGNL	FLORENCE, SC
FMN	ASW	FOUR CORNERS RGNL	FARMINGTON, NM
FMY	ASO	PAGE FIELD	FORT MYERS, FL
FNT	AGL	BISHOP INTL	FLINT, MI
FOE	ACE	TOPEKA RGNL	TOPEKA, KS
FOK	AEA	FRANCIS S GABRESKI	WESTHAMPTON BEACH, NY
FPR	ASO	TREASURE COAST INTL	FORT PIERCE, FL
FRG	AEA	REPUBLIC	FARMINGDALE, NY
FSM	ASW	FORT SMITH RGNL	FORT SMITH, AR
FTG	ANM	FRONT RANGE	DENVER, CO
FTW	ASW	FORT WORTH MEACHAM INTL	FORT WORTH, TX
FTY	ASO	FULTON COUNTY AIRPORT-BROWN FIELD	ATLANTA, GA
FUL	AWP	FULLERTON MUNI	FULLERTON, CA
FWA	AGL	FORT WAYNE INTL	FORT WAYNE, IN
FWS	ASW	FORT WORTH SPINKS	FORT WORTH, TX
FXE	ASO	FORT LAUDERDALE EXECUTIVE	FORT LAUDERDALE, FL
FYV	ASW	DRAKE FIELD	FAYETTEVILLE, AR
GCK	ACE	GARDEN CITY RGNL	GARDEN CITY, KS
GCN	AWP	GRAND CANYON NATIONAL PARK	GRAND CANYON, AZ
GEU	AWP	GLENDALE MUNI	GLENDALE, AZ
GFK	AGL	GRAND FORKS INTL	GRAND FORKS, ND

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
GGG	ASW	EAST TEXAS RGNL	LONGVIEW, TX
GJT	ANM	GRAND JUNCTION REGIONAL	GRAND JUNCTION, CO
GKY	ASW	ARLINGTON MUNI	ARLINGTON, TX
GLH	ASO	GREENVILLE MID-DELTA	GREENVILLE, MS
GLS	ASW	SCHOLES INTL AT GALVESTON	GALVESTON, TX
GMU	ASO	GREENVILLE DOWNTOWN	GREENVILLE, SC
GNV	ASO	GAINESVILLE RGNL	GAINESVILLE, FL
GON	ANE	GROTON-NEW LONDON	GROTON (NEW LONDON), CT
GPI	ANM	GLACIER PARK INTL	KALISPELL, MT
GPM	ASW	GRAND PRAIRIE MUNI	GRAND PRAIRIE, TX
GPT	ASO	GULFPORT-BILOXI INTL	GULFPORT, MS
GRB	AGL	GREEN BAY-AUSTIN STRAUBEL INTL	GREEN BAY, WI
GRI	ACE	CENTRAL NEBRASKA RGNL	GRAND ISLAND, NE
GTF	ANM	GREAT FALLS INTL	GREAT FALLS, MT
GTR	ASO	GOLDEN TRIANGLE RGNL	COLUMBUS/W POINT/STARKVILLE, MS
GTU	ASW	GEORGETOWN MUNI	GEORGETOWN, TX
GYH	ASO	DONALDSON FIELD	GREENVILLE, SC
GYI	ASW	NORTH TEXAS RGNL/PERRIN FIELD	SHERMAN/DENISON, TX
GYR	AWP	PHOENIX GOODYEAR	GOODYEAR, AZ
GY Y	AGL	GARY/CHICAGO INTL	GARY, IN
HEF	AEA	MANASSAS RGNL/HARRY P DAVIS FIELD	WASHINGTON, DC
HFD	ANE	HARTFORD-BRAINARD	HARTFORD, CT
HGR	AEA	HAGERSTOWN RGNL-RICHARD A HENSON FLD	HAGERSTOWN, MD
HHR	AWP	JACK NORTHROP FIELD/HAWTHORNE MUNI	HAWTHORNE, CA
HIO	ANM	PORTLAND-HILLSBORO	PORTLAND, OR
HKS	ASO	HAWKINS FIELD	JACKSON, MS
HKY	ASO	HICKORY RGNL	HICKORY, NC
HLG	AEA	WHEELING OHIO CO	WHEELING, WV
HLN	ANM	HELENA RGNL	HELENA, MT
HND	AWP	HENDERSON EXECUTIVE	LAS VEGAS, NV
HOB	ASW	LEA COUNTY RGNL	HOBBS, NM
HQZ	ASW	MESQUITE METRO	MESQUITE, TX
HRL	ASW	VALLEY INTL	HARLINGEN, TX
HSA	ASO	STENNIS INTL	BAY ST LOUIS, MS
HTS	AEA	TRI-STATE/MILTON J FERGUSON FIELD	HUNTINGTON, WV
HUF	AGL	TERRE HAUTE RGNL	TERRE HAUTE, IN
HUM	ASW	HOUMA-TERREBONNE	HOUMA, LA
HUT	ACE	HUTCHINSON RGNL	HUTCHINSON, KS
HVN	ANE	TWEED-NEW HAVEN	NEW HAVEN, CT
HWD	AWP	HAYWARD EXECUTIVE	HAYWARD, CA
HWO	ASO	NORTH PERRY	HOLLYWOOD, FL
HXD	ASO	HILTON HEAD	HILTON HEAD ISLAND, SC
HYA	ANE	BARNSTABLE MUNI-BOARDMAN/POLANDO FIELD	HYANNIS, MA
HYI	ASW	SAN MARCOS RGNL	AUSTIN, TX
IAG	AEA	NIAGARA FALLS INTL	NIAGARA FALLS, NY
IDA	ANM	IDAHO FALLS RGNL	IDAHO FALLS, ID
IFP	AWP	LAUGHLIN/BULLHEAD INTL	BULLHEAD CITY, AZ
ILG	AEA	NEW CASTLE	WILMINGTON, DE
INT	ASO	SMITH REYNOLDS	WINSTON SALEM, NC
IPT	AEA	WILLIAMSPORT RGNL	WILLIAMSPORT, PA
ISM	ASO	KISSIMMEE GATEWAY	ORLANDO, FL
ISO	ASO	KINSTON RGNL JETPORT AT STALLINGS FLD	KINSTON, NC
ITH	AEA	ITHACA TOMPKINS RGNL	ITHACA, NY
IXD	ACE	NEW CENTURY AIRCENTER	OLATHE, KS
JAC	ANM	JACKSON HOLE	JACKSON, WY
JEF	ACE	JEFFERSON CITY MEMORIAL	JEFFERSON CITY, MO
JLN	ACE	JOPLIN RGNL	JOPLIN, MO
JNU	AAL	JUNEAU INTL	JUNEAU, AK
JQF	ASO	CONCORD-PADGETT RGNL	CONCORD, NC
JRF	AWP	KALAELOA (JOHN RODGERS FIELD)	KAPOLEI, HI
JVL	AGL	SOUTHERN WISCONSIN RGNL	JANESVILLE, WI
JXN	AGL	JACKSON COUNTY-REYNOLDS FIELD	JACKSON, MI
LAF	AGL	PURDUE UNIVERSITY	LAFAYETTE, IN
LAL	ASO	LAKELAND LINDER INTL	LAKELAND, FL
LAN	AGL	CAPITAL REGION INTL	LANSING, MI
LAW	ASW	LAWTON-FORT SILL RGNL	LAWTON, OK
LBE	AEA	ARNOLD PALMER RGNL	LATROBE, PA
LCH	ASW	LAKE CHARLES RGNL	LAKE CHARLES, LA
LEB	ANE	LEBANON MUNI	LEBANON, NH
LEE	ASO	LEESBURG INTL	LEESBURG, FL

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
LFT	ASW	LAFAYETTE RGNL/PAUL FOURNET FIELD	LAFAYETTE, LA
LMT	ANM	CRATER LAKE-KLAMATH RGNL	KLAMATH FALLS, OR
LNK	ACE	LINCOLN	LINCOLN, NE
LNS	AEA	LANCASTER	LANCASTER, PA
LOU	ASO	BOWMAN FIELD	LOUISVILLE, KY
LRD	ASW	LAREDO INTL	LAREDO, TX
LSE	AGL	LA CROSSE RGNL	LA CROSSE, WI
LUK	AGL	CINCINNATI MUNI AIRPORT LUNKEN FIELD	CINCINNATI, OH
LVK	AWP	LIVERMORE MUNI	LIVERMORE, CA
LWB	AEA	GREENBRIER VALLEY	LEWISBURG, WV
LWM	ANE	LAWRENCE MUNI	LAWRENCE, MA
LWS	ANM	LEWISTON-NEZ PERCE COUNTY	LEWISTON, ID
LYH	AEA	LYNCHBURG RGNL/PRESTON GLENN FLD	LYNCHBURG, VA
LZU	ASO	GWINNETT COUNTY - BRISCOE FIELD	LAWRENCEVILLE, GA
MBS	AGL	MBS INTL	SAGINAW, MI
MCN	ASO	MIDDLE GEORGIA RGNL	MACON, GA
MDH	AGL	SOUTHERN ILLINOIS	CARBONDALE/MURPHYSBORO, IL
MEI	ASO	KEY FIELD	MERIDIAN, MS
MER	AWP	CASTLE	ATWATER, CA
MFD	AGL	MANSFIELD LAHM RGNL	MANSFIELD, OH
MFE	ASW	MC ALLEN MILLER INTL	MC ALLEN, TX
MGM	ASO	MONTGOMERY RGNL (DANNELLY FIELD)	MONTGOMERY, AL
MGW	AEA	MORGANTOWN MUNI-WALTER L BILL HART FLD	MORGANTOWN, WV
MHK	ACE	MANHATTAN RGNL	MANHATTAN, KS
MHR	AWP	SACRAMENTO MATHER	SACRAMENTO, CA
MIC	AGL	CRYSTAL	MINNEAPOLIS, MN
MIE	AGL	DELAWARE COUNTY RGNL	MUNCIE, IN
MKC	ACE	CHARLES B WHEELER DOWNTOWN	KANSAS CITY, MO
MKG	AGL	MUSKEGON COUNTY	MUSKEGON, MI
MKK	AWP	MOLOKAI	KAUNAKAKAI, HI
MKL	ASO	MC KELLAR-SIPES RGNL	JACKSON, TN
MLB	ASO	MELBOURNE INTL	MELBOURNE, FL
MLI	AGL	QUAD CITY INTL	MOLINE, IL
MLU	ASW	MONROE RGNL	MONROE, LA
MMU	AEA	MORRISTOWN MUNI	MORRISTOWN, NJ
MOB	ASO	MOBILE RGNL	MOBILE, AL
MOD	AWP	MODESTO CITY-CO-HARRY SHAM FLD	MODESTO, CA
MOT	AGL	MINOT INTL	MINOT, ND
MQY	ASO	SMYRNA	SMYRNA, TN
MRI	AAL	MERRILL FIELD	ANCHORAGE, AK
MRY	AWP	MONTEREY RGNL	MONTEREY, CA
MSO	ANM	MISSOULA INTL	MISSOULA, MT
MTN	AEA	MARTIN STATE	BALTIMORE, MD
MVY	ANE	MARTHA'S VINEYARD	VINEYARD HAVEN, MA
MWA	AGL	VETERANS AIRPORT OF SOUTHERN ILLINOIS	MARION, IL
MWC	AGL	LAWRENCE J TIMMERMAN	MILWAUKEE, WI
MWH	ANM	GRANT CO INTL	MOSES LAKE, WA
MYF	AWP	MONTGOMERY-GIBBS EXECUTIVE	SAN DIEGO, CA
NEW	ASW	LAKEFRONT	NEW ORLEANS, LA
NQA	ASO	MILLINGTON-MEMPHIS	MILLINGTON , TN
OAJ	ASO	ALBERT J ELLIS	JACKSONVILLE, NC
OCF	ASO	OCALA INTL-JIM TAYLOR FIELD	OCALA, FL
OGD	ANM	OGDEN-HINCKLEY	OGDEN, UT
OJC	ACE	JOHNSON COUNTY EXECUTIVE	OLATHE, KS
OLM	ANM	OLYMPIA RGNL	OLYMPIA, WA
OLV	ASO	OLIVE BRANCH	OLIVE BRANCH, MS
OMN	ASO	ORMOND BEACH MUNI	ORMOND BEACH, FL
OPF	ASO	MIAMI-OPA LOCKA EXECUTIVE	MIAMI, FL
ORH	ANE	WORCESTER RGNL	WORCESTER, MA
ORL	ASO	EXECUTIVE	ORLANDO, FL
OSH	AGL	WITTMAN RGNL	OSHKOSH, WI
OSU	AGL	OHIO STATE UNIVERSITY	COLUMBUS, OH
OTH	ANM	SOUTHWEST OREGON RGNL	NORTH BEND, OR
OUN	ASW	UNIVERSITY OF OKLAHOMA WESTHEIMER	NORMAN, OK
OWB	ASO	OWENSBORO-DAVISS COUNTY RGNL	OWENSBORO, KY
OWD	ANE	NORWOOD MEMORIAL	NORWOOD, MA
OXC	ANE	WATERBURY-OXFORD	OXFORD, CT
OXR	AWP	OXNARD	OXNARD, CA
PAE	ANM	SNOHOMISH COUNTY (PAINE FLD)	EVERETT, WA
PAH	ASO	BARKLEY RGNL	PADUCAH, KY

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
PAO	AWP	PALO ALTO	PALO ALTO, CA
PDK	ASO	DEKALB-PEACHTREE	ATLANTA, GA
PDT	ANM	EASTERN OREGON RGNL AT PENDLETON	PENDLETON, OR
PHF	AEA	NEWPORT NEWS/WILLIAMSBURG INTL	NEWPORT NEWS, VA
PIA	AGL	GENERAL DOWNING - PEORIA INTL	PEORIA, IL
PIH	ANM	POCATELLO RGNL	POCATELLO, ID
PKB	AEA	MID-OHIO VALLEY RGNL	PARKERSBURG, WV
PMD	AWP	PALMDALE USAF PLANT 42	PALMDALE, CA
PMP	ASO	POMPANO BEACH AIRPARK	POMPANO BEACH, FL
PNE	AEA	NORTHEAST PHILADELPHIA	PHILADELPHIA, PA
POC	AWP	BRACKETT FIELD	LA VERNE, CA
POU	AEA	HUDSON VALLEY RGNL	POUGHKEEPSIE, NY
PRC	AWP	ERNEST A LOVE FIELD	PRESCOTT, AZ
PSC	ANM	TRI-CITIES	PASCO, WA
PTK	AGL	OAKLAND COUNTY INTL	PONTIAC, MI
PUB	ANM	PUEBLO MEMORIAL	PUEBLO, CO
PVU	ANM	PROVO MUNI	PROVO, UT
PWA	ASW	WILEY POST	OKLAHOMA CITY, OK
PWK	AGL	CHICAGO EXECUTIVE	CHICAGO/PROSPECT HEIGHTS/WHEELING, IL
RAL	AWP	RIVERSIDE MUNI	RIVERSIDE, CA
RAP	AGL	RAPID CITY RGNL	RAPID CITY, SD
RBD	ASW	DALLAS EXECUTIVE	DALLAS, TX
RDD	AWP	REDDING MUNI	REDDING, CA
RDG	AEA	READING RGNL/CARL A SPAATZ FIELD	READING, PA
RDM	ANM	ROBERTS FIELD	REDMOND, OR
RFD	AGL	CHICAGO/ROCKFORD INTL	CHICAGO/ROCKFORD, IL
RHV	AWP	REID-HILLVIEW OF SANTA CLARA COUNTY	SAN JOSE, CA
RME	AEA	GRIFFISS INTL	ROME, NY
RNM	AWP	RAMONA	RAMONA, CA
RNT	ANM	RENTON MUNI	RENTON, WA
ROA	AEA	ROANOKE-BLACKSBURG RGNL/WOODRUM FIELD	ROANOKE, VA
ROG	ASW	ROGERS EXECUTIVE - CARTER FIELD	ROGERS, AR
ROW	ASW	ROSWELL INTL AIR CENTER	ROSWELL, NM
RST	AGL	ROCHESTER INTL	ROCHESTER, MN
RVS	ASW	RICHARD LLOYD JONES JR	TULSA, OK
RYN	AWP	RYAN FIELD	TUCSON, AZ
RYY	ASO	COBB COUNTY INTL-MCCOLLUM FIELD	ATLANTA, GA
SAC	AWP	SACRAMENTO EXECUTIVE	SACRAMENTO, CA
SAF	ASW	SANTA FE MUNI	SANTA FE, NM
SAW	AGL	SAWYER INTL	MARQUETTE, MI
SBA	AWP	SANTA BARBARA MUNI	SANTA BARBARA, CA
SBN	AGL	SOUTH BEND INTL	SOUTH BEND, IN
SBP	AWP	SAN LUIS COUNTY RGNL	SAN LUIS OBISPO , CA
SBY	AEA	SALISBURY-OCEAN CITY WICOMICO RGNL	SALISBURY, MD
SCK	AWP	STOCKTON METROPOLITAN	STOCKTON, CA
SDL	AWP	SCOTTSDALE	SCOTTSDALE, AZ
SDM	AWP	BROWN FIELD MUNI	SAN DIEGO, CA
SEE	AWP	GILLESPIE FIELD	SAN DIEGO/EL CAJON, CA
SFF	ANM	FELTS FIELD	SPOKANE, WA
SGJ	ASO	NORTHEAST FLORIDA RGNL	ST AUGUSTINE, FL
SGR	ASW	SUGAR LAND RGNL	HOUSTON, TX
SHV	ASW	SHREVEPORT RGNL	SHREVEPORT, LA
SIG	ASO	FERNANDO LUIS RIBAS DOMINICCI	SAN JUAN, PR
SJT	ASW	SAN ANGELO RGNL/MATHIS FIELD	SAN ANGELO, TX
SLE	ANM	MCNARY FLD	SALEM, OR
SLN	ACE	SALINA RGNL	SALINA, KS
SMO	AWP	SANTA MONICA MUNI	SANTA MONICA, CA
SMX	AWP	SANTA MARIA PUB/CAPT G ALLAN HANCOCK FLD	SANTA MARIA, CA
SNS	AWP	SALINAS MUNI	SALINAS, CA
SPG	ASO	ALBERT WHITTED	ST PETERSBURG, FL
SPI	AGL	ABRAHAM LINCOLN CAPITAL	SPRINGFIELD, IL
SQL	AWP	SAN CARLOS	SAN CARLOS, CA
SSF	ASW	STINSON MUNI	SAN ANTONIO, TX
STC	AGL	ST CLOUD RGNL	ST CLOUD, MN
STJ	ACE	ROSECRANS MEMORIAL	ST JOSEPH, MO
STP	AGL	ST PAUL DOWNTOWN HOLMAN FLD	ST PAUL, MN
STS	AWP	CHARLES M SCHULZ - SONOMA COUNTY	SANTA ROSA, CA
STT	ASO	CYRIL E KING	CHARLOTTE AMALIE, VI
STX	ASO	HENRY E ROHLSSEN	CHRISTIANSTED, VI
SUA	ASO	WITHAM FIELD	STUART, FL

Table B-4 List of Non-Hub Towers

Location Identifier	Region	Airport Name	City, State
SUN	ANM	FRIEDMAN MEMORIAL	HAILEY, ID
SUS	ACE	SPIRIT OF ST LOUIS	ST LOUIS, MO
SUX	ACE	SIOUX GATEWAY/COL BUD DAY FIELD	SIOUX CITY, IA
SWF	AEA	STEWART INTL	NEW YORK , NY
SWO	ASW	STILLWATER RGNL	STILLWATER, OK
TCL	ASO	TUSCALOOSA RGNL	TUSCALOOSA, AL
TEB	AEA	TETERBORO	TETERBORO, NJ
TIW	ANM	TACOMA NARROWS	TACOMA, WA
TIX	ASO	SPACE COAST RGNL	TITUSVILLE, FL
TKI	ASW	MCKINNEY NATIONAL	DALLAS, TX
TLH	ASO	TALLAHASSEE INTL	TALLAHASSEE, FL
TMB	ASO	MIAMI EXECUTIVE	MIAMI, FL
TOA	AWP	ZAMPERINI FIELD	TORRANCE, CA
TOL	AGL	TOLEDO EXPRESS	TOLEDO, OH
TOP	ACE	PHILIP BILLARD MUNI	TOPEKA, KS
TRI	ASO	TRI-CITIES	BRISTOL/JOHNSON/KINGSPORT, TN
TTD	ANM	PORTLAND-TROUTDALE	PORTLAND, OR
TTN	AEA	TRENTON MERCER	TRENTON, NJ
TUP	ASO	TUPELO RGNL	TUPELO, MS
TVC	AGL	CHERRY CAPITAL	TRAVERSE CITY, MI
TWF	ANM	JOSLIN FIELD - MAGIC VALLEY RGNL	TWIN FALLS, ID
TXK	ASW	TEXARKANA RGNL-WEBB FIELD	TEXARKANA, AR
TYR	ASW	TYLER POUNDS RGNL	TYLER, TX
TZR	AGL	BOLTON FIELD	COLUMBUS, OH
UAO	ANM	AURORA STATE	AURORA, OR
UES	AGL	WAUKESHA COUNTY	WAUKESHA, WI
UGN	AGL	WAUKEGAN NATIONAL	CHICAGO/WAUKEGAN , IL
UNV	AEA	UNIVERSITY PARK	STATE COLLEGE, PA
VCT	ASW	VICTORIA RGNL	VICTORIA, TX
VCV	AWP	SOUTHERN CALIFORNIA LOGISTICS	VICTORVILLE, CA
VGT	AWP	NORTH LAS VEGAS	LAS VEGAS, NV
VNY	AWP	VAN NUYS	VAN NUYS, CA
VQQ	ASO	CECIL	JACKSONVILLE, FL
VRB	ASO	VERO BEACH RGNL	VERO BEACH, FL
WDG	ASW	ENID WOODRING RGNL	ENID, OK
WHP	AWP	WHITEMAN	LOS ANGELES, CA
WJF	AWP	GENERAL WM J FOX AIRFIELD	LANCASTER, CA
YIP	AGL	WILLOW RUN	DETROIT, MI
YKM	ANM	YAKIMA AIR TERMINAL/MCALLISTER FIELD	YAKIMA, WA
YNG	AGL	YOUNGSTOWN-WARREN RGNL	YOUNGSTOWN/WARREN, OH

Listed 390 Airports

Table B-5 List of FAA Contract Towers

Location Identifier	Region	Airport Name	City, State
ABY	ASO	SOUTHWEST GEORGIA RGNL	ALBANY, GA
ADM	ASW	ARDMORE MUNI	ARDMORE, OK
ADQ	AAL	KODIAK	KODIAK, AK
AEG	ASW	DOUBLE EAGLE II	ALBUQUERQUE, NM
AEX	ASW	ALEXANDRIA INTL	ALEXANDRIA, LA
AHN	ASO	ATHENS/BEN EPPS	ATHENS, GA
AKN	AAL	KING SALMON	KING SALMON, AK
ALN	AGL	ST LOUIS RGNL	ALTON/ST LOUIS, IL
ALW	ANM	WALLA WALLA RGNL	WALLA WALLA, WA
ANE	AGL	ANOKA COUNTY-BLAINE (JANES FIELD)	MINNEAPOLIS, MN
APF	ASO	NAPLES MUNI	NAPLES, FL
ARA	ASW	ACADIANA RGNL	NEW IBERIA, LA
ASG	ASW	SPRINGDALE MUNI	SPRINGDALE, AR
ASH	ANE	BOIRE FIELD	NASHUA, NH
ATW	AGL	APPLETON INTL	APPLETON, WI
BAF	ANE	WESTFIELD-BARNES RGNL	WESTFIELD/SPRINGFIELD, MA
BAK	AGL	COLUMBUS MUNI	COLUMBUS, IN
BAZ	ASW	NEW BRAUNFELS RGNL	NEW BRAUNFELS, TX
BBG	ACE	BRANSON	BRANSON, MO
BCT	ASO	BOCA RATON	BOCA RATON, FL
BDR	ANE	IGOR I SIKORSKY MEMORIAL	BRIDGEPORT, CT
BET	AAL	BETHEL	BETHEL, AK
BFM	ASO	MOBILE DOWNTOWN	MOBILE, AL
BKL	AGL	BURKE LAKEFRONT	CLEVELAND, OH
BKV	ASO	BROOKSVILLE-TAMPA BAY RGNL	BROOKSVILLE, FL
BLI	ANM	BELLINGHAM INTL	BELLINGHAM, WA
BMG	AGL	MONROE COUNTY	BLOOMINGTON, IN
BMI	AGL	CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL	BLOOMINGTON/NORMAL, IL
BQN	ASO	RAFAEL HERNANDEZ	AGUADILLA, PR
BRO	ASW	BROWNSVILLE/SOUTH PADRE ISLAND INTL	BROWNSVILLE, TX
BTL	AGL	W K KELLOGG	BATTLE CREEK, MI
BVY	ANE	BEVERLY RGNL	BEVERLY, MA
BZN	ANM	BOZEMAN YELLOWSTONE INTL	BOZEMAN, MT
CGF	AGL	CUYAHOGA COUNTY	CLEVELAND, OH
CHD	AWP	CHANDLER MUNI	CHANDLER, AZ
CHO	AEA	CHARLOTTESVILLE-ALBEMARLE	CHARLOTTESVILLE, VA
CIC	AWP	CHICO MUNI	CHICO, CA
CLL	ASW	EASTERWOOD FIELD	COLLEGE STATION, TX
CNW	ASW	TSTC WACO	WACO, TX
COU	ACE	COLUMBIA RGNL	COLUMBIA, MO
CRE	ASO	GRAND STRAND	NORTH MYRTLE BEACH, SC
CRG	ASO	JACKSONVILLE EXECUTIVE AT CRAIG	JACKSONVILLE, FL
CWA	AGL	CENTRAL WISCONSIN	MOSINEE, WI
CWF	ASW	CHENNAULT INTL	LAKE CHARLES, LA
CXO	ASW	CONROE-NORTH HOUSTON RGNL	HOUSTON, TX
CXY	AEA	CAPITAL CITY	HARRISBURG, PA
CYS	ANM	CHEYENNE RGNL/JERRY OLSON FIELD	CHEYENNE, WY
DBQ	ACE	DUBUQUE RGNL	DUBUQUE, IA
DEC	AGL	DECATUR	DECATUR, IL
DET	AGL	COLEMAN A YOUNG MUNI	DETROIT, MI
DHN	ASO	DOTHAN RGNL	DOTHAN, AL
DTN	ASW	SHREVEPORT DOWNTOWN	SHREVEPORT, LA
DTO	ASW	DENTON ENTERPRISE	DENTON, TX
DTS	ASO	DESTIN EXECUTIVE	DESTIN, FL
DXR	ANE	DANBURY MUNI	DANBURY, CT
EAU	AGL	CHIPPEWA VALLEY RGNL	EAU CLAIRE, WI
ECP	ASO	NORTHWEST FLORIDA BEACHES INTL	PANAMA CITY, FL
EGE	ANM	EAGLE COUNTY RGNL	EAGLE, CO
ENA	AAL	KENAI MUNI	KENAI, AK
ENW	AGL	KENOSHA RGNL	KENOSHA, WI
ESN	AEA	EASTON/NEWNAM FIELD	EASTON, MD
EVb	ASO	NEW SMYRNA BEACH MUNI	NEW SMYRNA BEACH, FL
EWB	ANE	NEW BEDFORD RGNL	NEW BEDFORD, MA
EWN	ASO	COASTAL CAROLINA REGIONAL	NEW BERN, NC
EYW	ASO	KEY WEST INTL	KEY WEST, FL
FDK	AEA	FREDERICK MUNI	FREDERICK, MD
FIN	ASO	FLAGLER EXECUTIVE	PALM COAST, FL
FLG	AWP	FLAGSTAFF PULLIAM	FLAGSTAFF, AZ
FMN	ASW	FOUR CORNERS RGNL	FARMINGTON, NM
FMY	ASO	PAGE FIELD	FORT MYERS, FL

Table B-5 List of FAA Contract Towers

Location Identifier	Region	Airport Name	City, State
FOE	ACE	TOPEKA RGNL	TOPEKA, KS
FOK	AEA	FRANCIS S GABRESKI	WESTHAMPTON BEACH, NY
FTG	ANM	FRONT RANGE	DENVER, CO
FTY	ASO	FULTON COUNTY AIRPORT-BROWN FIELD	ATLANTA, GA
FUL	AWP	FULLERTON MUNI	FULLERTON, CA
FWS	ASW	FORT WORTH SPINKS	FORT WORTH, TX
FYV	ASW	DRAKE FIELD	FAYETTEVILLE, AR
GCK	ACE	GARDEN CITY RGNL	GARDEN CITY, KS
GEU	AWP	GLENDALE MUNI	GLENDALE, AZ
GJT	ANM	GRAND JUNCTION REGIONAL	GRAND JUNCTION, CO
GKY	ASW	ARLINGTON MUNI	ARLINGTON, TX
GLH	ASO	GREENVILLE MID-DELTA	GREENVILLE, MS
GLS	ASW	SCHOLES INTL AT GALVESTON	GALVESTON, TX
GMU	ASO	GREENVILLE DOWNTOWN	GREENVILLE, SC
GNV	ASO	GAINESVILLE RGNL	GAINESVILLE, FL
GON	ANE	GROTON-NEW LONDON	GROTON (NEW LONDON), CT
GPI	ANM	GLACIER PARK INTL	KALISPELL, MT
GPM	ASW	GRAND PRAIRIE MUNI	GRAND PRAIRIE, TX
GRI	ACE	CENTRAL NEBRASKA RGNL	GRAND ISLAND, NE
GSN	AWP	FRANCISCO C ADA/SAIPAN INTL	SAIPAN ISLAND, CQ
GTR	ASO	GOLDEN TRIANGLE RGNL	COLUMBUS/W POINT/STARKVILLE, MS
GTU	ASW	GEORGETOWN MUNI	GEORGETOWN, TX
GUM	AWP	GUAM INTL	GUAM, GU
GYH	ASO	DONALDSON FIELD	GREENVILLE, SC
GYI	ASW	NORTH TEXAS RGNL/PERRIN FIELD	SHERMAN/DENISON, TX
GYR	AWP	PHOENIX GOODYEAR	GOODYEAR, AZ
GYT	AGL	GARY/CHICAGO INTL	GARY, IN
HFD	ANE	HARTFORD-BRAINARD	HARTFORD, CT
HGR	AEA	HAGERSTOWN RGNL-RICHARD A HENSON FLD	HAGERSTOWN, MD
HHR	AWP	JACK NORTHROP FIELD/HAWTHORNE MUNI	HAWTHORNE, CA
HKS	ASO	HAWKINS FIELD	JACKSON, MS
HKY	ASO	HICKORY RGNL	HICKORY, NC
HLG	AEA	WHEELING OHIO CO	WHEELING, WV
HND	AWP	HENDERSON EXECUTIVE	LAS VEGAS, NV
HOB	ASW	LEA COUNTY RGNL	HOBBS, NM
HQZ	ASW	MESQUITE METRO	MESQUITE, TX
HRL	ASW	VALLEY INTL	HARLINGEN, TX
HSA	ASO	STENNIS INTL	BAY ST LOUIS, MS
HUM	ASW	HOUMA-TERREBONNE	HOUMA, LA
HUT	ACE	HUTCHINSON RGNL	HUTCHINSON, KS
HVN	ANE	TWEED-NEW HAVEN	NEW HAVEN, CT
HWO	ASO	NORTH PERRY	HOLLYWOOD, FL
HXD	ASO	HILTON HEAD	HILTON HEAD ISLAND, SC
HYA	ANE	BARNSTABLE MUNI-BOARDMAN/POLANDO FIELD	HYANNIS, MA
HYI	ASW	SAN MARCOS RGNL	AUSTIN, TX
IAG	AEA	NIAGARA FALLS INTL	NIAGARA FALLS, NY
IDA	ANM	IDAHO FALLS RGNL	IDAHO FALLS, ID
IFP	AWP	LAUGHLIN/BULLHEAD INTL	BULLHEAD CITY, AZ
INT	ASO	SMITH REYNOLDS	WINSTON SALEM, NC
IPT	AEA	WILLIAMSPORT RGNL	WILLIAMSPORT, PA
ISM	ASO	KISSIMMEE GATEWAY	ORLANDO, FL
ISO	ASO	KINSTON RGNL JETPORT AT STALLINGS FLD	KINSTON, NC
ITH	AEA	ITHACA TOMPKINS RGNL	ITHACA, NY
IWA	AWP	PHOENIX-MESA GATEWAY	PHOENIX, AZ
IXD	ACE	NEW CENTURY AIRCENTER	OLATHE, KS
JAC	ANM	JACKSON HOLE	JACKSON, WY
JEF	ACE	JEFFERSON CITY MEMORIAL	JEFFERSON CITY, MO
JLN	ACE	JOPLIN RGNL	JOPLIN, MO
JQF	ASO	CONCORD-PADGETT RGNL	CONCORD, NC
JRF	AWP	KALAELOA (JOHN RODGERS FIELD)	KAPOLEI, HI
JVL	AGL	SOUTHERN WISCONSIN RGNL	JANESVILLE, WI
JXN	AGL	JACKSON COUNTY-REYNOLDS FIELD	JACKSON, MI
KOA	AWP	ELLISON ONIZUKA KONA INTL AT KEAHOLE	KAILUA/KONA, HI
LAL	ASO	LAKELAND LINDER INTL	LAKELAND, FL
LAW	ASW	LAWTON-FORT SILL RGNL	LAWTON, OK
LBE	AEA	ARNOLD PALMER RGNL	LATROBE, PA
LEB	ANE	LEBANON MUNI	LEBANON, NH
LEE	ASO	LEESBURG INTL	LEESBURG, FL
LIH	AWP	LIHUE	LIHUE, HI
LMT	ANM	CRATER LAKE-KLAMATH RGNL	KLAMATH FALLS, OR

Table B-5 List of FAA Contract Towers

Location Identifier	Region	Airport Name	City, State
LNS	AEA	LANCASTER	LANCASTER, PA
LRD	ASW	LAREDO INTL	LAREDO, TX
LSE	AGL	LA CROSSE RGNL	LA CROSSE, WI
LUK	AGL	CINCINNATI MUNI AIRPORT LUNKEN FIELD	CINCINNATI, OH
LWB	AEA	GREENBRIER VALLEY	LEWISBURG, WV
LWM	ANE	LAWRENCE MUNI	LAWRENCE, MA
LWS	ANM	LEWISTON-NEZ PERCE COUNTY	LEWISTON, ID
LYH	AEA	LYNCHBURG RGNL/PRESTON GLENN FLD	LYNCHBURG, VA
LZU	ASO	GWINNETT COUNTY - BRISCOE FIELD	LAWRENCEVILLE, GA
MCN	ASO	MIDDLE GEORGIA RGNL	MACON, GA
MDH	AGL	SOUTHERN ILLINOIS	CARBONDALE/MURPHYSBORO, IL
MEI	ASO	KEY FIELD	MERIDIAN, MS
MER	AWP	CASTLE	ATWATER, CA
MFE	ASW	MC ALLEN MILLER INTL	MC ALLEN, TX
MFR	ANM	ROGUE VALLEY INTL - MEDFORD	MEDFORD, OR
MGW	AEA	MORGANTOWN MUNI-WALTER L BILL HART FLD	MORGANTOWN, WV
MHK	ACE	MANHATTAN RGNL	MANHATTAN, KS
MHR	AWP	SACRAMENTO MATHER	SACRAMENTO, CA
MIE	AGL	DELAWARE COUNTY RGNL	MUNCIE, IN
MKK	AWP	MOLOKAI	KAUNAKAKAI, HI
MKL	ASO	MC KELLAR-SIPES RGNL	JACKSON, TN
MLB	ASO	MELBOURNE INTL	MELBOURNE, FL
MOD	AWP	MODESTO CITY-CO-HARRY SHAM FLD	MODESTO, CA
MOT	AGL	MINOT INTL	MINOT, ND
MQY	ASO	SMYRNA	SMYRNA, TN
MSO	ANM	MISSOULA INTL	MISSOULA, MT
MTN	AEA	MARTIN STATE	BALTIMORE, MD
MVY	ANE	MARTHA'S VINEYARD	VINEYARD HAVEN, MA
MWA	AGL	VETERANS AIRPORT OF SOUTHERN ILLINOIS	MARION, IL
MWC	AGL	LAWRENCE J TIMMERMAN	MILWAUKEE, WI
NQA	ASO	MILLINGTON-MEMPHIS	MILLINGTON , TN
OAJ	ASO	ALBERT J ELLIS	JACKSONVILLE, NC
OCF	ASO	OCALA INTL-JIM TAYLOR FIELD	OCALA, FL
OGD	ANM	OGDEN-HINCKLEY	OGDEN, UT
OJC	ACE	JOHNSON COUNTY EXECUTIVE	OLATHE, KS
OLM	ANM	OLYMPIA RGNL	OLYMPIA, WA
OLV	ASO	OLIVE BRANCH	OLIVE BRANCH, MS
OMN	ASO	ORMOND BEACH MUNI	ORMOND BEACH, FL
OPF	ASO	MIAMI-OPA LOCKA EXECUTIVE	MIAMI, FL
ORH	ANE	WORCESTER RGNL	WORCESTER, MA
OSH	AGL	WITTMAN RGNL	OSHKOSH, WI
OSU	AGL	OHIO STATE UNIVERSITY	COLUMBUS, OH
OTH	ANM	SOUTHWEST OREGON RGNL	NORTH BEND, OR
OUN	ASW	UNIVERSITY OF OKLAHOMA WESTHEIMER	NORMAN, OK
OWB	ASO	OWENSBORO-DAVIESS COUNTY RGNL	OWENSBORO, KY
OWD	ANE	NORWOOD MEMORIAL	NORWOOD, MA
OXC	ANE	WATERBURY-OXFORD	OXFORD, CT
OXR	AWP	OXNARD	OXNARD, CA
PAH	ASO	BARKLEY RGNL	PADUCAH, KY
PDT	ANM	EASTERN OREGON RGNL AT PENDLETON	PENDLETON, OR
PGD	ASO	PUNTA GORDA	PUNTA GORDA, FL
PIH	ANM	POCATELLO RGNL	POCATELLO, ID
PKB	AEA	MID-OHIO VALLEY RGNL	PARKERSBURG, WV
PMD	AWP	PALMDALE USAF PLANT 42	PALMDALE, CA
PMP	ASO	POMPANO BEACH AIRPARK	POMPANO BEACH, FL
PVU	ANM	PROVO MUNI	PROVO, UT
PWA	ASW	WILEY POST	OKLAHOMA CITY, OK
RAL	AWP	RIVERSIDE MUNI	RIVERSIDE, CA
RAP	AGL	RAPID CITY RGNL	RAPID CITY, SD
RBD	ASW	DALLAS EXECUTIVE	DALLAS, TX
RDD	AWP	REDDING MUNI	REDDING, CA
RDM	ANM	ROBERTS FIELD	REDMOND, OR
RME	AEA	GRIFFISS INTL	ROME, NY
RNM	AWP	RAMONA	RAMONA, CA
RNT	ANM	RENTON MUNI	RENTON, WA
ROG	ASW	ROGERS EXECUTIVE - CARTER FIELD	ROGERS, AR
RYN	AWP	RYAN FIELD	TUCSON, AZ
RYY	ASO	COBB COUNTY INTL-MCCOLLUM FIELD	ATLANTA, GA
SAC	AWP	SACRAMENTO EXECUTIVE	SACRAMENTO, CA
SAF	ASW	SANTA FE MUNI	SANTA FE, NM

Table B-5 List of FAA Contract Towers

Location Identifier	Region	Airport Name	City, State
SAW	AGL	SAWYER INTL	MARQUETTE, MI
SBP	AWP	SAN LUIS COUNTY RGNL	SAN LUIS OBISPO , CA
SBY	AEA	SALISBURY-OCEAN CITY WICOMICO RGNL	SALISBURY, MD
SDM	AWP	BROWN FIELD MUNI	SAN DIEGO, CA
SFF	ANM	FELTS FIELD	SPOKANE, WA
SGJ	ASO	NORTHEAST FLORIDA RGNL	ST AUGUSTINE, FL
SGR	ASW	SUGAR LAND RGNL	HOUSTON, TX
SIG	ASO	FERNANDO LUIS RIBAS DOMINICCI	SAN JUAN, PR
SJT	ASW	SAN ANGELO RGNL/MATHIS FIELD	SAN ANGELO, TX
SLE	ANM	MCNARY FLD	SALEM, OR
SLN	ACE	SALINA RGNL	SALINA, KS
SMX	AWP	SANTA MARIA PUB/CAPT G ALLAN HANCOCK FLD	SANTA MARIA, CA
SNS	AWP	SALINAS MUNI	SALINAS, CA
SPG	ASO	ALBERT WHITTED	ST PETERSBURG, FL
SQL	AWP	SAN CARLOS	SAN CARLOS, CA
SSF	ASW	STINSON MUNI	SAN ANTONIO, TX
STC	AGL	ST CLOUD RGNL	ST CLOUD, MN
STJ	ACE	ROSECRANS MEMORIAL	ST JOSEPH, MO
STX	ASO	HENRY E ROHLSSEN	CHRISTIANSTED, VI
SUA	ASO	WITHAM FIELD	STUART, FL
SUN	ANM	FRIEDMAN MEMORIAL	HAILEY, ID
SWF	AEA	STEWART INTL	NEW YORK , NY
SWO	ASW	STILLWATER RGNL	STILLWATER, OK
TCL	ASO	TUSCALOOSA RGNL	TUSCALOOSA, AL
TIW	ANM	TACOMA NARROWS	TACOMA, WA
TIX	ASO	SPACE COAST RGNL	TITUSVILLE, FL
TKI	ASW	MCKINNEY NATIONAL	DALLAS, TX
TOP	ACE	PHILIP BILLARD MUNI	TOPEKA, KS
TTD	ANM	PORTLAND-TROUTDALE	PORTLAND, OR
TTN	AEA	TRENTON MERCER	TRENTON, NJ
TUP	ASO	TUPELO RGNL	TUPELO, MS
TXK	ASW	TEXARKANA RGNL-WEBB FIELD	TEXARKANA, AR
TYR	ASW	TYLER POUNDS RGNL	TYLER, TX
TZR	AGL	BOLTON FIELD	COLUMBUS, OH
UAO	ANM	AURORA STATE	AURORA, OR
UES	AGL	WAUKESHA COUNTY	WAUKESHA, WI
UGN	AGL	WAUKEGAN NATIONAL	CHICAGO/WAUKEGAN , IL
UNV	AEA	UNIVERSITY PARK	STATE COLLEGE, PA
VCT	ASW	VICTORIA RGNL	VICTORIA, TX
VCV	AWP	SOUTHERN CALIFORNIA LOGISTICS	VICTORVILLE, CA
VQQ	ASO	CECIL	JACKSONVILLE, FL
WDG	ASW	ENID WOODRING RGNL	ENID, OK
WHP	AWP	WHITEMAN	LOS ANGELES, CA
WJF	AWP	GENERAL WM J FOX AIRFIELD	LANCASTER, CA
XNA	ASW	NORTHWEST ARKANSAS RGNL	FAYETTEVILLE/SPRINGDALE/ROGERS , AR
YKM	ANM	YAKIMA AIR TERMINAL/MCALLISTER FIELD	YAKIMA, WA

Listed 256 Airports