Federal Aviation Administration

ADMINISTRATOR'S FACT BOOK

December 2017

Compiled by: FAA Office of Communications

General phone number and website to contact the FAA: 1-866-TELL-FAA and www.faa.gov/contact

Federal Aviation Administration

Our nation's airspace system is the safest and most efficient in the world.

As FAA Administrator, I routinely interact with travelers and pilots who use the National Airspace System (NAS). As you might expect, the users of the NAS are very interested to better understand how we safely oversee and manage America's aviation system.

Now, there is a single source available to find those answers. I'm pleased to report that source, called the *Administrator's Fact Book,* is now available and it's online. Here, you will find facts, data, graphics and other materials that provide an overall picture of the many facets of our nation's complex airspace system.

Whether you are a researcher, journalist, economist, or aviation enthusiast, we at the FAA hope the *Administrator's Fact Book* meets your needs.

Sincerely,

Michael Huerta

FAA Mission and Vision

FAA Mission

To provide the safest, most efficient aerospace system in the world.

FAA Vision

We strive to reach the next level of safety, efficiency, environmental responsibility and global leadership. We are accountable to the American public and our stakeholders.

Table of Contents

Safety

Accidents, Fatalities and Rates by National Safety Board (NTSB) Classification, 1996 through 2015, for U.S. Air Carriers Operating Under 14 CFR 121, Scheduled Service (Airlines)

		Accidents		Fatalities					Accidents per 100,000 Flight Hours		Accidents per 1,000,000 Miles Flown		Accidents per 100,000 Departures	
Year		All	Fatal	Total	Aboard	Flight Hours	Miles Flown	Departures	All	Fatal	All	Fatal	All	Fatal
1996		31	3	342	342	12,971,676	5,449,997,000	7,851,298	0.239	0.023	0.0057	0.0006	0.395	0.038
1997		43	3	3	2	15,061,662	6,339,432,000	9,925,058	0.285	0.020	0.0068	0.0005	0.433	0.030
1998		41	1	1	0	15,921,447	6,343,690,000	10,535,196	0.258	0.006	0.0065	0.0002	0.389	0.009
1999		40	2	12	11	16,693,365	6,689,327,000	10,860,692	0.240	0.012	0.0060	0.0003	0.368	0.018
2000		49	2	89	89	17,478,519	7,152,260,000	11,053,826	0.280	0.011	0.0069	0.0003	0.443	0.018
2001	*	41	6	531	525	17,157,858	6,994,939,000	10,632,880	0.216	0.012	0.0053	0.0003	0.348	0.019
2002		34	0	0	0	16,718,781	6,927,954,000	10,276,107	0.203	-	0.0049	-	0.331	-
2003		51	2	22	21	16,887,756	7,015,935,000	10,227,924	0.302	0.012	0.0073	0.0003	0.499	0.020
2004		23	1	13	13	18,184,016	7,604,248,000	10,782,989	0.126	0.005	0.0030	0.0001	0.213	0.009
2005	32	34	3	22	20	18,712,191	7,843,717,000	10,910,460	0.182	0.016	0.0043	0.0004	0.312	0.027
2006	32	26	2	50	49	18,647,896	7,851,864,000	10,627,481	0.139	0.011	0.0033	0.0003	0.245	0.019
2007	32	26	0	0	0	19,014,677	8,024,313,000	10,734,170	0.137	-	0.0032	-	0.242	-
2008	32	20	0	0	0	18,580,166	7,813,371,000	10,282,575	0.108	-	0.0026	-	0.195	-
2009	32	26	1	50	49	17,182,970	7,248,702,000	9,564,891	0.151	0.006	0.0036	0.0001	0.272	0.010
2010	32	28	0	0	0	17,235,121	7,352,374,000	9,467,282	0.162	-	0.0038	-	0.296	-
2011	32	29	0	0	0	17,464,623	7,473,520,000	9,419,064	0.166	-	0.0039	-	0.308	-
2012	32	26	0	0	0	17,271,783	7,443,532,000	9,241,935	0.151	-	0.0035	-	0.281	-
2013	32	19	0	0	0	17,323,783	7,475,895,000	9,156,961	0.110	-	0.0025	-	0.207	-
2014	32	28	0	0	0	17,266,292	7,492,800,000	8,912,313	0.162	-	0.0037	-	0.314	-
2015		27	0	0	0	17,435,000	7,611,973,000	8,859,000	0.155	-	0.0035	-	0.305	-

Notes: 2015 data are preliminary.

Flight hours, miles and departures are compiled by the Federal Aviation Administration.

Since March 20, 1997, aircraft with 10 or more seats used in scheduled passenger service have been operated under 14 CFR 121.

Years followed by the symbol * are those in which an illegal act was responsible for an occurrence in this category. These acts, such as suicide and sabotage, are included in the totals for accidents and fatalities but are excluded for the purpose of accident rate computation. Table 12 contains a list of illegal act occurrences involving U.S. air carriers for the period covered by this table. Other than the persons aboard aircraft who were killed, fatalities resulting from the September 11, 2001, terrorist acts are excluded from this table.

Description of Air Traffic Incident Data

System Risk Event Rate: a 12-month rolling rate that compares the number of Risk Analysis Events (RAEs are events in which less than 66 percent of the required separation between aircraft was maintained) with the total number of validated losses of standard separation. Significantly improved data collection has led to an increase in reported events and RAEs since 2012. The total number of high-risk events remains low.

Runway incursions: the four categories (A, B, C or D) are based on defined criteria, including speed and the type and extent of any evasive action. Category A and B events are considered to have elevated risk.

Runway incursions are also classified by type: 1) pilot actions, measured as Pilot Deviations; 2) ATC actions, measured as Operational Incidents, and 3) actions by individuals driving or working in the vicinity of taxiways and runways, measured as Vehicle/Pedestrian Deviations.

Near Mid Air Collision (NMAC): when an aircraft flies within 500 feet of another aircraft, or a pilot or flight crew member reports a collision hazard between two or more aircraft.

Airspace Incident Data

Incident Type	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
Near Mid-air Collision	2012	3	7	7	10	8	8	3	7	7	8	4	4	76
	2013	6	7	7	4	3	14	11	13	7	12	4	8	96
	2014	6	8	12	9	15	25	17	9	15	11	7	9	143
	2015	7	10	15	8	10	16	12	28	12	5	10	12	145
	2016	17	15	13	14	30	46	38	33	26	29	28	15	304
Pilot Deviation	2012	35	307	357	262	324	360	314	323	296	278	306	260	3422
	2013	228	270	262	267	268	291	310	380	299	306	267	217	3365
	2014	251	246	301	339	349	342	374	352	307	371	305	269	3806
	2015	284	297	376	339	361	362	374	341	327	302	281	243	3887
	2016	245	344	343	364	333	368	411	373	367	387	376	404	4315
Runway Incursion	2012	80	74	112	99	126	127	103	108	95	96	90	87	1197
	2013	93	94	101	92	105	131	138	110	105	110	102	86	1267
	2014	82	89	87	110	121	128	138	127	84	116	122	74	1278
	2015	118	102	121	141	108	141	149	146	120	126	126	109	1507
	2016	105	134	129	132	126	134	157	137	145	150	141	119	1609
Surface Incident	2012	17	18	21	13	15	24	15	18	14	18	18	15	206
	2013	19	17	29	19	33	34	25	23	24	43	18	29	313
	2014	22	27	26	35	31	39	30	25	33	34	33	16	351
	2015	24	15	31	26	19	26	34	24	20	53	51	41	364
	2016	54	48	59	66	61	67	67	62	54	61	44	67	710

Airspace Incident Data (continued)

Incident Type	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
Vehicle Pedestrian Deviations	2012	22	22	29	29	20	36	25	23	22	24	24	22	298
	2013	22	29	30	32	31	25	34	34	26	40	19	21	343
	2014	26	30	27	44	42	32	43	28	38	24	41	16	391
	2015	43	25	32	42	19	35	46	35	27	36	27	23	390
	2016	34	31	34	39	39	31	43	37	39	37	34	36	434
Loss of Separation	2012	71	349	314	428	391	480	465	558	511	580	480	576	5203
	2013	640	493	540	598	554	511	581	588	578	584	539	529	6735
	2014	509	517	695	747	665	602	646	647	585	615	598	640	7466
	2015	562	512	567	589	572	574	590	764	668	683	649	683	7413
	2016	637	648	813	704	838	791	753	765	696	721	657	663	8686

Incident Rates	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	SRER
High Risk Analysis Events	2012	2	3	2	5	3	2	5	9	2	2	1	3	39	7.496
System Risk Event Rate	2013	1	2	4	4	2	7	3	5	4	4	2	3	41	6.088
	2014	1	0	2	4	2	3	0	2	2	4	2	2	24	3.215
	2015	0	1	0	2	2	3	3	0	0	0	2	1	14	1.889
	2016	4	3	3	3	1	0	4	2	0	1	0	2	23	2.648

Runway Incursion Category A & B	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	RI Rate
Runway Incursion Rate	2012	0	4	2	2	0	2	1	1	0	0	0	0	12	0.239
	2013	0	1	2	1	1	3	2	0	1	2	1	2	16	0.320
	2014	1	3	1	1	1	0	2	0	0	2	1	2	14	0.282
	2015	3	1	1	3	0	1	0	0	1	2	2	0	14	0.282
	2016	3	3	1	0	2	2	2	2	0	3	1	0	19	0.379

Footnotes for Data Table

Pilot-reported NMACs with Unmanned Aircraft Systems (UAS) now account for more than half of all reported events.

The Pilot Deviation (PD) table includes events that did not have a loss of standard separation. PDs with a loss of standard separation are included in the Loss of Separation table.

Loss of Separation events include incidents attributable to both pilot and air traffic controller. This table includes airborne events where the loss of standard separation criteria has been validated.

All yearly totals and rates are tabulated for calendar year comparison and do not reflect performance target reporting, which are aligned to the fiscal year (October-September).

Originating source - Comprehensive Electronic Data Analysis and Reporting (CEDAR), Operations Network (OPSNET)

Air Traffic

Total Operations* at Towers, Terminal Radar Approach Control (TRACONs) and Air Route Traffic Control Centers (ARTCCs)

	Air Traffic in the NAS		
	FY15	FY16	% Change
Air Traffic Control Tower (ATCT)	53,001,110	53,327,606	0.6%
Terminal Radar Approach Control Facilities (TRACON)	37,170,968	37,712,883	1.5%
Air Route Traffic Control Centers (ARTCC)	41,918,263	43,231,160	3.1%

*Operations at TRACON and ARTCC facilities are also known as aircraft handled

Source: OPSNET, Office of Performance Analysis (AJR-G)

Total Operations by Air Traffic Control Tower (ATCT): Top 50

Rank	Airport Tower	Name	FY15	FY16	% Change
1	ATL	Atlanta	878,053	902,230	2.8%
2	ORD	Chicago	882,943	874,148	-1.0%
3	LAX	Los Angeles	687,179	722,537	5.1%
4	DFW	Dallas/Fort Worth	692,769	685,309	-1.1%
5	DEN	Denver	555,176	570,395	2.7%
6	LAS	Las Vegas	541,598	559,960	3.4%
7	CLT	Charlotte	549,491	549,643	0.0%
8	EWR	Newark	532,846	536,755	0.7%
9	IAH	Houston	513,445	485,111	-5.5%
10	JFK	JFK	464,472	480,976	3.6%
11	LGA	LaGuardia	470,469	470,885	0.1%
12	PHX	Phoenix	459,828	463,444	0.8%
13	SFO	San Francisco	436,826	454,565	4.1%
14	MIA	Miami	421,575	429,308	1.8%
15	MSP	Minneapolis	411,347	416,877	1.3%
16	PHL	Philadelphia	418,826	408,697	-2.4%
17	SEA	Seattle	384,053	418,764	9.0%
18	BOS	Boston	385,000	407,639	5.9%
19	DTW	Detroit	382,142	394,436	3.2%
20	DVT	Phoenix Deer Valley	373,550	374,567	0.3%
21	DCA	Washington	351,057	341,595	-2.7%
22	SLC	Salt Lake City	327,837	329,875	0.6%
23	APA	Denver Centennial	315,440	340,606	8.0%
24	MCO	Orlando	311,759	323,836	3.9%
25	LGB	Long Beach	319,775	314,194	-1.7%
26	GFK	Grand Forks	304,373	321,818	5.7%
27	HNL	Honolulu	315,049	307,768	-2.3%
28	DAB	Daytona Beach	302,137	312,125	3.3%
29	IAD	Dulles	307,046	299,210	-2.6%
30	SNA	John Wayne	286,821	313,527	9.3%
31	FLL	Fort Lauderdale	291,279	303,865	4.3%
33	ANC	Anchorage	290,802	287,432	-1.2%
34	TEB	Teterboro	255,933	300,057	17.2%
35	TMB	Miami Executive	264,174	283,701	7.4%
36	FFZ	Falcon Field	253,311	280,262	10.6%
37	PRC	Prescott Municipal	274,978	257,316	-6.4%
38	BWI	Baltimore	259,187	261,747	1.0%
39	MDW	Chicago Midway	258,104	256,398	-0.7%
40	PDX	Portland (OR)	245,988	257,792	4.8%
41	DAL	Dallas Love Field	236,213	252,572	6.9%
42	OAK	Oakland	229,680	244,792	6.6%
43	VNY	Van Nuys	241,194	232,335	-3.7%
44	IWA	Phoenix Mesa	222,045	244,104	9.9%
45	BFI	Boeing Field	219,641	242,133	10.2%
46	SAN	San Diego	227,344	229,567	1.0%
47	SEE	Gillespie Field	232,008	222,248	-4.2%
48	MEM	Memphis	223,958	229,274	2.4%
49	CHD	Chandler Municipal	226,302	219,528	-3.0%
50	HOU	Houston	219,558	224,730	2.4%

Source: OPSNET, Office of Performance Analysis (AJR-G)

Total Operations* by Terminal Radar Approach Control Facilities (TRACON): Top 50

Rank	TRACON	Name	FY15	FY16	% Change
1	SCT	Southern California	2,063,122	2,099,756	1.8%
2	N90	New York	1,892,552	1,949,388	3.0%
3	NCT	Northern California	1,558,229	1,586,639	1.8%
4	PCT	Potomac	1,417,578	1,426,859	0.7%
5	C90	Chicago	1,252,133	1,254,412	0.2%
6	D10	Dallas-Fort Worth	1,205,819	1,213,222	0.6%
7	A80	Atlanta	1,167,065	1,198,348	2.7%
8	MIA	Miami Tower	979,245	1,009,725	3.1%
9	I90	Houston	939,698	913,611	-2.8%
10	D01	Denver	792,982	820,064	3.4%
11	P50	Phoenix	670,361	672,972	0.4%
12	F11	Central Florida	654,086	673,746	3.0%
13	CLT	Charlotte Tower	631,118	636,264	0.8%
14	A90	Boston	605,674	639,498	5.6%
15	L30	Las Vegas	585,590	605,514	3.4%
16	PHL	Philadelphia Tower	586,777	574,328	-2.1%
17	S46	Seattle	539,485	578,654	7.3%
18	M98	Minneapolis	521,513	525,247	0.7%
19	D21	Detroit	505,740	521,998	3.2%
20	HCF	Honolulu Control Facility	474,765	478,441	0.8%
21	TPA	Tampa Tower	449,312	456,195	1.5%
22	S56	Salt Lake City	404,545	408,675	1.0%
23	JAX	Jacksonville Tower	343,878	361,549	5.1%
24	SAT	San Antonio Tower	328,008	318,245	-3.0%
25	DAB	Daytona Beach Tower	324,924	317,406	-2.3%
26	CMH	Columbus Tower	314,573	325,673	3.5%
27	ZSU	San Juan CERAP	313,713	324,336	3.4%
28	T75	St. Louis	301,881	313,275	3.8%
29	P80	Portland	302,142	312,801	3.5%
30	P31	Pensacola	302,852	292,432	-3.4%
31	AUS	Austin Tower	290,614	303,650	4.5%
32	M03	Memphis	285,437	301,930	5.8%
33	PBI	Palm Beach Tower	280,591	282,212	0.6%
34	A11	Anchorage	276,715	270,295	-2.3%
35	PIT	Pittsburgh Tower	255,510	260,171	1.8%
36	BNA	Nashville Tower	247,811	264,992	6.9%
37	E10	High Desert	250,710	248,575	-0.9%
38	MSY	New Orleans Tower	249,652	248,248	-0.6%
39	IND	Indianapolis Tower	240,459	252,756	5.1%
40	CRP	Corpus Christi Tower	237,223	255,062	7.5%
41	RDU	Raleigh-Durham Tower	231,008	239,428	3.6%
42	CVG	Cincinnati Tower	222,426	230,738	3.7%
43	MKE	Milwaukee Tower	224,925	227,363	1.1%
44	RSW	Fort Myers Tower	217,761	225,797	3.7%
45	OKC	Oklahoma City Tower	214,814	222,389	3.5%
46	MCI	Kansas City Tower	209,103	211,004	0.9%
47	SDF	Standiford Tower	203,499	208,772	2.6%
48	R90	Omaha	203,342	207,577	2.1%
49	Y90	Yankee	199,851	205,504	2.8%
50	ORF	Norfolk Tower	197,005	196,857	-0.1%

*Operations at TRACON facilities are also known as aircraft handled

Source: OPSNET, Office of Performance Analysis (AJR-G)

Total Operations* by Air Route Traffic Control Centers (ARTCC)

ARTCC	Name	FY15	FY16
ZTL	Atlanta	2,923,189	3,047,184
ZNY	New York	2,611,131	2,684,769
ZMA	Miami	2,577,234	2,546,654
ZDC	Washington	2,426,733	2,464,286
ZOB	Cleveland	2,304,949	2,387,361
ZJX	Jacksonville	2,272,655	2,393,729
ZAU	Chicago	2,258,724	2,397,472
ZFW	Fort Worth	2,273,465	2,299,251
ZHU	Houston	2,241,133	2,250,837
ZLA	Los Angeles	2,118,926	2,229,653
ZME	Memphis	2,032,575	2,099,894
ZID	Indianapolis	1,953,334	2,023,298
ZMP	Minneapolis	1,895,435	1,941,944
ZKC	Kansas City	1,717,758	1,751,235
ZDV	Denver	1,696,035	1,764,984
ZOA	Oakland	1,557,960	1,640,881
ZAB	Alburquerque	1,518,002	1,564,647
ZBW	Boston	1,472,544	1,523,097
ZLC	Salt Lake City	1,337,087	1,394,441
ZSE	Seattle	1,102,124	1,173,627
ZAN	Anchorage	579,351	582,494
HCF	Honolulu Control Facility	488,415	489,032
ZSU	San Juan	309,799	312,528
ZUA	Guam	249,705	267,862

*Operations at ARTCC facilities are also know as aircraft handled

Source: OPSNET, Office of Performance Analysis (AJR-G)

Flight Service – Total Flight Services = 2 (Flight Plans + Pilot Weather Briefs) + Aircraft Contacts

	Fiscal Year 2015											
CONUS - AFSS Contract	**Oct-14**	**Nov-14**	**Dec-14**	**Jan-15**	**Feb-15**	**Mar-15**	**Apr-15**	**May-15**	**Jun-15**	**Jul-15**	**Aug-15**	**Sep-15**
Services via Specialist	371,921	302,699	279,695	269,379	251,010	319,039	331,870	347,986	352,446	383,551	350,440	329,540

	Fiscal Year 2015											
Alaska Facility	**Oct-14**	**Nov-14**	**Dec-14**	**Jan-15**	**Feb-15**	**Mar-15**	**Apr-15**	**May-15**	**Jun-15**	**Jul-15**	**Aug-15**	**Sep-15**
Barrow (BRW)	3,799	3,429	3,467	2,095	3,352	3,437	3,605	3,723	4,618	6,271	7,090	6,249
Cold Bay (CDB)	1,884	1,564	2,015	2,670	1,585	2,117	1,992	2,440	2,742	2,531	2,887	2,689
Dillingham (DLG)	4,061	3,291	2,941	3,281	3,457	4,533	4,637	5,721	7,715	8,142	7,472	6,927
Kenai (ENA)	15,000	11,735	12,186	11,237	11,136	12,780	14,112	17,706	21,336	22,343	22,035	18,976
Fairbanks (FAI)	8,404	5,838	7,350	5,410	6,215	8,429	7,963	8,591	13,132	14,569	15,001	14,459
Homer (HOM)	2,820	2,346	2,019	2,011	1,942	2,647	2,545	4,554	5,596	8,288	6,810	3,730
Illiamna (ILI) *	946	0	0	0	0	0	0	1,091	4,458	6,848	7,149	7,793
Juneau (JNU)	5,571	4,419	4,373	4,098	3,909	5,074	4,667	7,210	8,706	10,829	10,274	8,175
Ketchikan (KTN)	5,276	4,200	3,378	3,294	3,214	4,466	4,566	12,360	17,930	20,298	20,582	9,921
McGrath (MCG) *	0	0	0	0	0	0	0	1,173	1,985	1,596	1,645	1,890
Nome (OME)	9,756	7,362	10,155	9,257	8,633	10,992	9,305	10,563	10,441	12,846	14,806	9,708
Northway (ORT) *	0	0	0	0	0	0	0	520	1,005	1,195	1,082	1,432
Kotzebue (OTZ)	7,042	5,574	5,418	5,931	5,352	7,370	6,364	6,887	6,416	8,337	7,834	8,915
Palmer (PAQ)	1,871	1,242	1,083	1,489	1,259	1,880	1,827	2,800	3,335	3,171	3,299	2,695
Deadhorse (SCC)	2,868	2,566	3,202	2,443	2,003	2,211	2,572	3,352	2,881	3,416	4,232	3,180
Sitka (SIT)	2,884	2,255	2,253	2,304	2,389	2,952	3,063	3,861	4,407	5,167	5,194	3,565
Talkeetna (TKA)	1,850	1,301	957	1,447	1,075	2,678	2,471	8,475	9,939	10,829	11,892	5,105

	Fiscal Year 2016											
CONUS - AFSS Contract	**Oct-15**	**Nov-15**	**Dec-15**	**Jan-16**	**Feb-16**	**Mar-16**	**Apr-16**	**May-16**	**Jun-16**	**Jul-16**	**Aug-16**	**Sep-16**
Services via Specialist	315,006	272,125	236,872	229,190	240,886	270,626	275,545	284,917	301,106	325,029	296,686	280,694

	Fiscal Year 2016											
Alaska Facility	**Oct-15**	**Nov-15**	**Dec-15**	**Jan-16**	**Feb-16**	**Mar-16**	**Apr-16**	**May-16**	**Jun-16**	**Jul-16**	**Aug-16**	**Sep-16**
Barrow (BRW)	5,587	2,970	3,278	3,451	3,235	3,563	3,874	4,953	4,419	5,805	6,662	6,042
Cold Bay (CDB)	2,689	1,978	2,066	2,354	1,815	1,598	2,227	3,013	2,671	2,317	3,018	2,115
Dillingham (DLG)	6,164	3,677	4,034	4,020	3,930	4,869	5,166	5,482	9,161	7,778	8,273	6,118
Kenai (ENA)	13,727	8,988	10,617	9,563	9,293	12,209	12,528	18,073	18,896	23,053	20,113	17,403
Fairbanks (FAI)	8,683	7,894	6,382	6,545	6,740	8,989	8,242	9,080	12,264	13,184	13,451	12,713
Homer (HOM)	2,642	1,828	1,882	1,844	1,740	2,346	2,718	4,145	5,770	8,091	7,922	5,228
Illiamna (ILI) *	1,977	0	0	0	0	0	0	2,342	5,552	8,470	7,504	5,772
Juneau (JNU)	6,516	5,621	5,263	5,423	5,608	6,262	5,897	8,057	10,321	11,274	11,306	9,498
Ketchikan (KTN)	4,716	3,796	3,524	2,961	3,061	4,713	5,383	11,206	17,142	21,632	22,394	10,470
McGrath (MCG) *	0	0	0	0	0	1,067	0	1,620	1,430	1,529	1,791	2,084
Nome (OME)	11,712	9,634	7,816	6,872	6,804	7,922	8,932	8,266	10,189	12,143	10,239	8,181
Northway (ORT) *	0	0	0	0	0	0	0	668	760	685	1,078	1,521
Kotzebue (OTZ)	8,026	5,764	5,377	6,160	5,727	6,151	6,338	7,557	8,011	7,058	8,091	8,644
Palmer (PAQ)	1,835	1,085	1,168	1,588	1,739	2,310	2,889	4,416	3,387	4,058	3,518	2,838
Deadhorse (SCC)	2,598	2,213	2,372	2,271	2,042	3,764	2,377	2,332	2,339	2,566	3,984	2,710
Sitka (SIT)	2,712	2,316	2,074	2,074	2,131	2,808	2,629	3,659	4,590	5,067	4,901	3,181
Talkeetna (TKA)	1,493	510	520	731	1,266	2,123	3,261	6,428	9,597	10,698	9,058	6,004

*Seasonal Facility only open during the Summer

Source: Flight Service Stations, AJR-B

Fiscal Year (FY)/Number of Delayed Flights/Percentage Change

Fiscal Year	Number of Delayed Operations	% Change
2012	277,159	n/a
2013	333,463	20.3%
2014	319,515	-4.2%
2015	333,818	4.5%
2016	342,294	2.5%

Source: OPSNET, Office of Performance Analysis (AJR-G)

Percent Share of Delay Causes

		Percent Share of Delay Causes				
Month	Total Delays	Weather	Volume	Equip-ment	Runway	Other
Oct-11	19,284	67%	21%	1%	5%	6%
Nov-11	21,357	72%	19%	0%	4%	4%
Dec-11	18,698	72%	16%	4%	3%	5%
Jan-12	20,009	66%	15%	0%	14%	5%
Feb-12	14,618	63%	25%	0%	2%	10%
Mar-12	23,146	75%	16%	0%	4%	6%
Apr-12	15,789	64%	22%	0%	6%	8%
May-12	31,314	76%	13%	2%	4%	4%
Jun-12	23,988	63%	20%	0%	9%	8%
Jul-12	36,097	86%	9%	0%	2%	3%
Aug-12	28,993	76%	13%	1%	7%	4%
Sep-12	23,866	62%	15%	0%	18%	6%
Oct-12	23,110	61%	20%	1%	9%	9%
Nov-12	13,708	60%	27%	0%	4%	9%
Dec-12	22,467	63%	22%	3%	8%	4%
Jan-13	16,240	72%	17%	0%	5%	5%
Feb-13	17,031	72%	20%	1%	2%	5%
Mar-13	21,697	65%	27%	0%	5%	3%
Apr-13	37,117	55%	16%	0%	8%	21%
May-13	35,740	75%	15%	1%	4%	4%
Jun-13	46,693	84%	10%	0%	4%	2%
Jul-13	46,715	76%	13%	0%	3%	8%
Aug-13	31,101	76%	17%	1%	2%	4%
Sep-13	21,844	64%	22%	0%	9%	5%
Oct-13	21,066	60%	28%	0%	7%	6%
Nov-13	16,316	58%	29%	0%	6%	6%
Dec-13	21,809	58%	31%	0%	7%	4%
Jan-14	15,385	55%	25%	2%	11%	7%
Feb-14	19,755	63%	24%	0%	7%	5%
Mar-14	20,227	52%	31%	0%	11%	6%
Apr-14	25,912	50%	22%	1%	23%	4%
May-14	35,218	66%	15%	2%	13%	4%
Jun-14	43,059	75%	14%	0%	7%	4%
Jul-14	37,967	75%	16%	0%	5%	4%
Aug-14	34,499	73%	17%	0%	4%	6%
Sep-14	28,302	50%	21%	9%	8%	12%
Oct-14	31,940	44%	17%	26%	5%	7%
Nov-14	20,647	63%	27%	0%	5%	5%
Dec-14	28,206	59%	35%	0%	1%	4%
Jan-15	18,571	63%	29%	1%	2%	5%
Feb-15	18,553	59%	33%	0%	1%	6%
Mar-15	22,326	50%	25%	0%	18%	6%
Apr-15	24,416	62%	26%	0%	7%	5%
May-15	31,125	70%	20%	1%	4%	6%
Jun-15	41,560	79%	14%	0%	3%	4%
Jul-15	38,308	67%	15%	0%	12%	6%
Aug-15	32,711	58%	23%	1%	13%	5%
Sep-15	25,455	61%	22%	0%	9%	7%
Oct-15	21,893	56%	30%	1%	5%	8%
Nov-15	21,376	59%	30%	1%	3%	7%
Dec-15	29,087	61%	31%	0%	2%	5%
Jan-16	18,035	54%	39%	1%	1%	5%
Feb-16	20,989	66%	26%	0%	3%	5%
Mar-16	28,237	67%	26%	0%	3%	4%
Apr-16	22,683	65%	27%	0%	4%	4%
May-16	28,455	71%	22%	0%	2%	5%
Jun-16	39,238	72%	19%	0%	5%	4%
Jul-16	43,881	78%	15%	0%	3%	4%
Aug-16	41,335	74%	16%	2%	3%	5%
Sep-16	27,085	64%	23%	0%	8%	5%

Source: OPSNET, Office of Performance Analysis (AJR-G)

Airspace Modernization

The FAA is modernizing the nation's airspace from one centered largely on analog, ground-based technology to one that takes advantage of state-of-the-art, satellite-based and digital systems. This transformation from ground-based to satellite-enabled navigation and aircraft tracking, from voice to digital communication, and from limited data exchange to fully integrated information management (among many other improvements) is changing how we see, navigate and communicate in our nation's skies.

Many of these technologies and procedures are significantly improving safety, capacity and efficiency on runways and in our skies while reducing fuel burn, carbon emissions and noise:

Data Communications (Data Comm)

Data Comm revolutionizes communication between air traffic controllers and pilots. The new technology supplements radio voice messages, enabling controllers to transmit typed departure clearances that pilots can read and accept with the touch of a button. This translates directly into safer, more efficient operations, helping aircraft take off sooner and reach their destinations on time.

Data Comm tower service was successfully deployed, under budget and almost two-and-a-half years ahead of schedule, at 55 airports. Due to its success, air carriers requested and the FAA approved the deployment of Data Comm at seven more airports. When en route services are deployed, the system will be used for traffic at cruising altitude, and more kinds of messages can be exchanged.

Click on the following link for more information about Data Comm:

https://www.faa.gov/nextgen/update/progress_and_plans/data_comm/

Performance Based Navigation (PBN)

PBN routes and procedures are primarily satellite-based and not bound to traditional ground-based navigation aids. Aircraft are thus able to fly more directly from Point A to Point B. PBN procedures use satellite-based navigation and on-board aircraft equipment to navigate with greater precision through all phases of flight. They enhance safety through repeatable, predictable flight paths, improve airport arrival rates and reduce fuel burn. The FAA has published more than 9,000 PBN procedures and routes.

Click on the following link for more information about PBN:

https://www.faa.gov/nextgen/update/progress_and_plans/pbn/

Automatic Dependent Surveillance–Broadcast (ADS-B)

ADS-B, the satellite-enabled successor to radar, relies on GPS signals to determine and report aircraft position. It is replacing ground-based radars as the primary means of aircraft surveillance. ADS-B is one of the most important underlying technologies in the modernization effort.

The nationwide infrastructure for ADS-B was completed in April 2014. This means that the nation's airspace system now has satellite-based coverage wherever radar coverage exists — as well as in some areas that lack radar coverage, such as certain low-altitude airspace, the Gulf of Mexico and Alaska. By Jan. 1, 2020, aircraft operating in most controlled airspace (airspace in which transponders are required today) will be required to have ADS-B Out, which broadcasts aircraft position. Aircraft that fly only in uncontrolled airspace where no transponders are required are exempt from the mandate, as are aircraft without electrical systems, such as balloons and gliders. ADS-B In, which is not mandatory, gives pilots cockpit displays that show the position of nearby aircraft, weather conditions and other flight information. ADS-B In improves pilot situational awareness and greatly enhances safety, particularly for general aviation aircraft, which usually have no other system aboard for spotting nearby air traffic.

Click on the following link for more information about ADS-B:

https://www.faa.gov/nextgen/update/progress_and_plans/adsb/

Click on the following link for the latest ADS-B equipage numbers.

https://www.faa.gov/nextgen/equipadsb/levels/

En Route Automation Modernization (ERAM)

ERAM, which is fully deployed at the 20 en route centers across the country where controllers handle high-altitude traffic, processes flight and radar data, serves as a platform for communications, and generates data for controllers' screens. The technology enables controllers to track up to 1,900 aircraft at a time – an increase from 1,100 under the previous system. ERAM can also track aircraft using ADS-B.

Terminal Automation Modernization Replacement (TAMR)

TAMR is an FAA program that is fielding a technology advancement akin to ERAM, only for terminal, not en route, airspace, which is the airspace around major airports. The Standard Terminal Automation Replacement System (STARS) combines multiple air traffic control technologies into a single, state-of-the-art platform. STARS is now in use at 70 terminal radar approach control (TRACON) facilities, including the "Big 11" TRACONs that control 80 percent of all traffic arriving and departing from U.S. airports.

Click on the following link for more information about ERAM and TAMR:

https://www.faa.gov/nextgen/update/progress_and_plans/automation/

System Wide Information Management (SWIM)

SWIM is one of the most important programs in the FAA's modernization effort. One of the keys to a safe and efficient flight is to give the people responsible for that flight the right information at the right time. As such, SWIM provides near real-time, accurate flight, surveillance, weather and aeronautical information in a flexible, secure digital architecture. It is the data-sharing backbone of modernization: it receives information collected independently, combines it and distributes it as data to authorized users in the aviation community. This provides common situational awareness and facilitates collaborative decision making – an integral part of delivering aircraft safely to their destinations on time.

Click on the following link for more information about SWIM:

https://www.faa.gov/nextgen/update/progress_and_plans/swim/

Unmanned Aircraft Systems (UAS)

UAS Metrics

Total Registrations	947,970
Hobbyists	845,170
Non-Hobbyists	102,800
Remote Pilot Certificates Issued	70,043
Part 107 Waivers Issued	1,208
Top Five Waiver Requests (Percent)	
Night Operations	70%
Operations Over People	29%
BVLOS	17%
Altitude	9%
Ops from Moving Vehicle	7%
Airspace Authorizations Issued	10,965

BVLOS: Beyond the Visionary Loss of Sight

Source: Office of Unmanned Aircraft Systems,

As of: Nov. 29, 2017

Airports

Definitions of Landing Facilities

Airport:
An area of land or water which is used, or intended to be used, for the aircraft takeoff and landing.

https://www.faa.gov/airports/resources/publications/orders/compliance_5190_6/

Heliport:
The area of land, water, or a structure used or intended to be used for the landing and takeoff of helicopters, together with appurtenant buildings and facilities.

https://www.faa.gov/documentLibrary/media/Advisory_Circular/150_5390_2c.pdf

Seaplane Base:
A designated area of water used or intended to be used for the landing and takeoff of seaplanes and shore side access.

https://www.faa.gov/documentLibrary/media/Advisory_Circular/draft-150-5395-1B-Seaplane-Bases.pdf

Civil Public Use Part 139:
14 CFR Part 139 requires the FAA to issue airport operating certificates to airports that---

- Serve scheduled and unscheduled air carrier aircraft with more than 30 seats;
- Serve scheduled air carrier operations in aircraft with more than 9 seats but less than 31 seats; and
- The FAA Administrator requires to have a certificate.

https://www.faa.gov/airports/airport_safety/part139_cert/what-is-part-139/

Public Use Airports:
A public airport or a privately owned airport used or intended to be used for public purposes.

https://www.faa.gov/airports/resources/publications/orders/compliance_5190_6/

Private Use Airports:
A publicly owned or privately owned airport not open to the public.

https://www.faa.gov/airports/resources/publications/orders/compliance_5190_6/

Number of U.S. Airports

	2016	2015	2014
Total Airports	19,576	19,524	19,299
Airports	13,154	13,156	13,089
Heliports	5,763	5,709	5,553
Seaplane Bases	497	493	488
Gliderports	35	35	36
Balloonports	13	13	13
Ultralight Flightparks	114	118	120
Total Civil Public Use Airports	5,119	5,136	5,145
Civil Public Use Part 139	529	531	537
Civil Public Uses Non-Part 139	4,590	4,605	4,608
Civil Public Use Airports Abandoned	20	14	15
Newly Established Public Use	4	8	10
Total Civil Private Use Airports	14,168	14,096	13,863
Civil Private Use Airports Abandoned	222	112	307
Newly Established Private Use	305	352	171
Military Airports	283	287	286

Source: Office of Airports, 202-267-9590

Aircraft

Number of Aircraft by Carriers

Type of Carrier	Count of Aircraft
Domestic, flag, supplemental, and cargo air carriers aircraft	7,146
Commuters	11,057
Air Taxis	324
TOTAL	18,527

U.S. General Aviation and Part 135 Activity (Calendar Years)

	Estimated Active Aircraft (Thousands)		Estimated Hours Flown (Millions)	
	2015	2014	2015	2014
TOTAL	**210.0**	**204.4**	**24.1**	**23.3**
By Type Aircraft				
Piston	141.1	139.2	12.8	12.0
Turboprop	9.7	9.8	2.5	2.6
Jet	13.4	12.4	3.8	3.9
Rotary Wing	10.5	10.0	3.3	3.2
Experimental	27.9	26.2	1.3	1.2
Special Light Sport	2.4	2.2	0.2	0.2
Other	4.9	4.7	0.2	0.2
By Type Flying				
Corporate	11.3	11.9	2.4	2.8
Business	15.9	15.8	1.8	1.7
Personal	139.7	135.7	7.4	6.9
Instructional	15.7	13.2	4.6	3.8
Aerial Application	3.3	3.1	0.9	0.9
Aerial Observation	5.5	6.0	1.4	1.5
Aerial Other	0.9	0.9	0.2	0.2
External Load	0.3	0.3	0.2	0.2
Other Work	1.3	1.2	0.2	0.3
Sightseeing	1.2	1.7	0.2	0.2
Air Tours	0.5	0.4	0.3	0.3
Air Taxi	6.5	6.9	2.5	2.6
Air Medical Services	2.4	2.5	0.8	0.8

Source: Office of Aviation Safety, (202) 267-3131

Aircraft Certification Service, Aircraft Certification Mission and Program Files

	FY15	FY16	*FY17
Type Certificates/Supplemental Type Certificates Issued	1638	2054	1533
Other Design Approvals Issued	3249	3290	1519
Production Approvals (Including Amendments) Issued	36	39	29
Airworthiness Certificates Issued	889	735	311
New Airworthiness Directives (AD) Issued	124	150	106
*New Designees (Representative of the Administrator) Appointed	-	-	-
Total Active Designees	1556	1571	1491

*FY2017 thru April Only. Counted twice a year.

*New Designees are no longer tracked.

As of: 09/06/2017

Source: AIR-9E0, (202) 267-3948

Industry Trends

Forecast for U.S. Commercial Air Carriers Total Revenue Passenger Enplanements

Fiscal Year	Passengers
FY 2017	838 Million
FY 2021	916 Million

Historical U.S. Commercial Air Carriers Total Revenue Passenger Enplanements

Fiscal Year	Passengers
FY 2015	786 Million
FY 2016	820 Million

National Airspace System (NAS) On-Time Performance

Fiscal Year	NAS On-Time Performance
FY 2015	90.7%
FY 2016	92.0%

Percent of total flights net delays, diversions and cancellations.

Source: ASPM and ASQP, Office of Performance Analysis (AJR-G)

Commercial Space Transportation

Licensed Commercial Launches

	FY2018	FY2017	FY2016	FY2015	FY2014
Licensed Commercial Launches					
TOTAL	5	18	11	8	12
Number of Orbital Launches	5	18	11	7	12
Number of Suborbital Launches	0	0	0	1	0
By Launch Vehicle Type					
Antares Configuration 120	0	0	0	0	2
Antares Configuration 130	0	0	0	1	0
Antares Configuration 230	1	1	0	0	0
Atlas V-401	0	2	2	0	1
Atlas V-421	0	0	1	0	0
Atlas V-431	0	1	0	0	0
Delta IV Heavy	0	0	0	1	0
Dragon Pad Abort Test Vehicle	0	0	0	1	0
Electron	0	1	0	0	0
Falcon 9	0	0	0	1	3
Falcon 9 Version 1.1	0	0	0	4	4
Falcon 9 Version 1.2	3	12	8	0	0
Minotaur C	1	0	0	0	0
Minotaur I	0	0	0	0	1
Minotaur IV	0	1	0	0	0
Zenit-3SL	0	0	0	0	1
By Launch Site					
Cape Canaveral Air Force Station	0	5	11	7	7
Kennedy Space Center	2	7	0	0	0
Mahia Peninsula, New Zealand	0	1	0	0	0
Mid-Atlantics Regional Spaceport	0	1	0	1	2
Pacific Ocean	0	0	0	0	1
Vandenberg Air Force Base	2	4	0	0	1
Wallops Flight Facility	1	0	0	0	1

Experimental Permit Launches

	FY2018	FY2017	FY2016	FY2015	FY2014
Experimental Permit Launches					
TOTAL	0	1	4	2	7

Re-entries

	FY2018	FY2017	FY2016	FY2015	FY2014
Re-entries					
TOTAL	0	3	2	4	1
By Vehicle					
Dragon	0	3	2	3	1
Orion spacecraft	0	0	0	1	0

Active Launch Site Operator Licenses

Operator	Site
Harris Corporation	California Spaceport, California
Oklahoma Space Industry Development Authority	Burns Flat, Oklahoma
Space Florida	Cape Canaveral Air Force Station, Florida
Houston Airport System	Ellington Airport, Texas
Jacksonville Aviation Authority	Cecil Field, Florida
Midland International Airport	Midland International Airport, Texas
Mojave Air & Space Port	Mojave Air & Space Port, California
New Mexico Spaceflight Authority	Spaceport America, New Mexico
Alaska Aerospace Development Corporation	Pacific Spaceport Complex, Alaska
Virginia Commercial Space Flight Authority	Wallops Flight Facility, Virgina

Source: provided on 10-24-17; by FAA Office of Commercial Space Transportation, 202-267-7793

Airmen

Airmen Certification Service – M70 Active Pilots Summary (Grand Totals, November 1, 2017)

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS	Foreign Based Pilot	Flight Instructor	Auth In-structor	Remote Pilot	Flight Engineer	Foreign Based Flight Engineer	Row TOTAL (excludes Remote Pilots; double counting CFIs and Flight Engineers)
State/US Territory Totals:	135,295	6,023	157	167,444	98,625	156,867	564,411	6,945	103,153	17	62,062	34,540	4	709,070
Foreign Address Totals:	10,738	24	0	7,867	15,869	7,946	42,444	31,485	2,871	0	511	193	8	77,001
GRAND TOTALS:	146,033	6,047	157	175,311	114,494	164,813	606,855	38,430	106,024	17	62,573	34,733	12	786,071

FAA Resources

Washington Headquarters, Routing Symbols, Officials

Routing Symbol	Officials
AOA	**Administrator**
	Michael P. Huerta, 202-267-3111, Michael.Huerta@faa.gov
	Christopher J. Rocheleau, Chief of Staff, 202-267-3180, Chris.Rocheleau@faa.gov
	Max Slutsky, Senior Advisor, 202-267-9869, Max.Slutsky@faa.gov
ADA	**Deputy Administrator**
	Daniel K. Elwell, 202-267-8111, Daniel.Elwell@faa.gov
	Elisabeth Smeda, Senior Advisor, 202-267-6541, Elisabeth.Smeda@faa.gov
	Senior Advisor, Unmanned Aircraft Systems Integration
	Vacant
AAE	Office of Audit and Evaluation
	Director, H. Clayton Foushee, 202-267-9000, Clay.Foushee@faa.gov
AJO	**Chief Operating Officer, Air Traffic Organization**
	Teri L. Bristol, 202-267-1240, Teri.Bristol@faa.gov
	Timothy Arel, Deputy Chief Operating Officer, 202-267-1240, Timothy.Arel@faa.gov
AJG	Management Services
	Vice President, Lisbeth L. Mack, 202-267-9341, Lisbeth.Mack@faa.gov
AJI	Safety and Technical Training
	Vice President, Terry L. Biggio, 202-267-4957, Terry.Biggio@faa.gov
AJM	Program Management Organization
	Vice President, Kristen G. Burnham, 202-267-3280, Kristen.Burnham@faa.gov
AJR	Systems Operations
	Vice President, Michael C. Artist, 202-267-0753, Mike.C.Artist@faa.gov
AJT	Air Traffic Services
	Vice President, Glen Martin, 202-267-0896, Glen.Martin@faa.gov
AJV	Mission Support Services
	Vice President, Elizabeth L. Ray, 202-267-8261, Elizabeth.Ray@faa.gov
AJW	Technical Operations Services
	Vice President, Vaughn A. Turner, 202-267-3366, Vaughn.Turner@faa.gov
ACR	**Assistant Administrator for Civil Rights**
	Mamie K. Mallory, 202-267-8087, Mamie.Mallory@faa.gov
	Deputy Assistant Administrator, Courtney L. Wilkerson, 202-267-3264, Courtney.Wilkerson@faa.gov
AFN	**Assistant Administrator for Finance and Management**
	Victoria B. Wassmer, 202-267-8627, Victoria.Wassmer@faa.gov
ABA	Deputy Assistant Administrator for Financial Services/CFO
	Mark S. House, 202-267-9105, Mark.House@faa.gov
ACQ	Deputy Assistant Administrator for Acquisition and Business
	Nathan S. Tash, 202-267-7222, Nathan.Tash@faa.gov
AIT	Deputy Assistant Administrator for Information and Technology
	Tina M. Amereihn, 202-267-8627, Tina.Amereihn@faa.gov
ARC	Deputy Assistant Administrator for Regions and Center Operations
	Vacant

Routing Symbol	Officials
AGC	**Chief Counsel**
	Charles Trippe, 202-267-3222, Charles.Trippe@faa.gov
	Principal Deputy Chief Counsel
	Patricia McNall, 202-267-3773, Pat.McNall@faa.gov
AGI	**Assistant Administrator for Government and Industry Affairs**
	Christopher Brown, 202-267-3277, Chris.C.Brown@faa.gov
AHR	**Assistant Administrator for Human Resource Management**
	Annie B. Andrews, 202-267-3456, Annie.B.Andrews@faa.gov
	Deputy Assistant Administrator, Gwendolyn DeFilippi, 202-267-3456, Gwendolyn.DeFilippi@faa.gov
AHA	Office of the Accountability Board
	Executive Director, Tammy Van Keuren, 202-267-3817, Tammy.Van.Keuren@faa.gov
AHB	Director, Compensation, Benefits and Worklife, Elizabeth A. Dayan, 202-267-4028, Elizabeth.Dayan@faa.gov
AHD	Director, Talent Development (Chief Learning Officer), Melissa King, 202-267-9041, Melissa.King@faa.gov
AHF	Director, Human Resource Services, M. Renee Coates, 202-267-3850, Renee.Coates@faa.gov
AHL	Director, Labor and Employee Relations, Laura R. Glading, 202-267-6268. Laura.Glading@faa.gov
ANG	**Assistant Administrator for NextGen**
	Pamela D. Whitley, Acting, 202-267-7111, Pamela.Whitley@faa.gov
	Deputy Assistant Administrator, Michele M. Merkle, Acting, 202-267-2708, Michele.Merkle@faa.gov
	Director, Joint Program Development Office, Karlin R. Toner, 202-267-0104, Karlin.Toner@faa.gov
	Chief Scientific and Technical Advisor for Architecture and Systems Development, Steven W. Bradford, 202-267-1218, Steve.Bradford@faa.gov
	Chief Scientific and Technical Advisor for NAS System Software, Vacant
	Director, NAS Systems Engineering Service Office, Michele M. Merkle, 202-267-2708, Michele.Merkle@faa.gov
	Director, Research and Technology Development, Paul V. Fontaine, 202-267-9251, Paul.Fontaine@faa.gov
	Director, Interagency Planning Office, Roosevelt Mercer, Jr., 202-267-4963, Roosevelt.Mercer@faa.gov
AOC	**Assistant Administrator for Communications**
	Gregory Martin, 202-267-3454, Gregory.Martin@faa.gov
	Deputy, Public Affairs, Laura J. Brown, 202-267-3455, Laura.J.Brown@faa.gov
	Deputy, Corporate Communications, Jeannie Shiffer, 202-267-8859, Jeannie.Shiffer@faa.gov
APL	**Assistant Administrator for Policy, International Affairs and Environment**
	Vacant
	Assistant Administrator for Policy, International Affairs, Environment and Energy
	Jennifer Solomon, 202-267-3927, Jennifer.Solomon@faa.gov
	Deputy, Assistant Administrator, Carl E. Burleson, 202-267-7954, Carl.Burleson@faa.gov
AEE	Office of Environment and Energy
	Executive Director, Kevin W. Welsh, 202-267-1451, Kevin.Welsh@faa.gov

Routing Symbol	Officials
API	Office of International Affairs
	Executive Director, Christopher Rocheleau, Chris.Rocheleau@faa.gov
APO	Office of Aviation Policy and Plans
	Nancy E. Shellabarger, 202-267-3274, Nan.Shellabarger@faa.gov
ASH	**Associate Administrator for Security and Hazardous Materials**
	Claudio Manno, 202-267-7211, Claudio.Manno@faa.gov
	Deputy, Angela H. Stubblefield, 202-267-7211, Angela.H.Stubblefield
ADG	Office of Hazardous Materials
	Director, Janet McLaughlin, 202-267-9419, Janet.McLaughlin@faa.gov
AEO	Office of National Security Programs and Incident Response
	Director, Joshua P. Holtzman, 202-267-7980, Joshua.Holtzman@faa.gov
AHW	Office of Joint Security and Hazardous Materials Office, West
	Director, Patricia A. Pausch, 425-227-2705, Patricia.Pausch@faa.gov
AXI	Director, Office of Investigations
	Michelle Root, 425-227-2715, Michelle.Root@faa.gov
AXM	Director, Office of Business and Mission Services
	Donald Faulkner, 202-267-8005, Don.Faulkner@faa.gov
AXP	Director, Office of Personnel Security
	Gerald K. Moore, 310-725-3730, Gerald.Moore@faa.gov
ARP	**Associate Administrator for Airports**
	Winsome Lenfert, Acting, 202-267-9590, Winsome.A.Lenfert@faa.gov
	Deputy, Winsome Lenfert, 202-267-9590, Winsome.A.Lenfert@faa.gov
AAS	Office of Airport Safety and Programming
	Director, John R. Dermody, 202-267-3053, John.Dermody@faa.gov
ACO	Office of Airport Compliance and Management Analysis
	Director, Kevin Willis, 202-267-8741, Kevin.Willis@faa.gov
APP	Office of Airport Planning and Programming
	Director, Brian E. Black, 202-267-8775, Elliott.Black@faa.gov
AST	**Associate Administrator for Commercial Space Transportation**
	Dr. George C. Nield, 202-267-7793, George.Nield@faa.gov
	Deputy, Kelvin Coleman, 202-267-7793, Kelvin.Coleman@faa.gov
	Strategic Operations for Commercial Space Transportation
	Director, Dorothy Reimold, 202-267-7635, Dorothy.Reimold@faa.gov
AVS	**Associate Administrator for Aviation Safety**
	Ali Bahrami, 202-267-3131, Ali.Bahrami@faa.gov
	Deputy Associate Administrator
	John Hickey, 202-267-7804, John.Hickey@faa.gov
AAM	Office of Aerospace Medicine
	Michael A. Berry, MD, 202-267-3535, Michael.Berry-MD@faa.gov
AFX	Flight Standards Service
	Executive Director, John S. Duncan, 202-267-8237, John.S.Duncan@faa.gov
AIR	Aircraft Certification Service
	Executive Director, Dorenda D. Baker, 2022677270, Dorenda.Baker@faa.gov
AOV	Office of Air Traffic Safety Oversight Service
	Vacant
AQS	Office of Quality, Integration and Executive Services
	Director, Sunny Lee-Fanning, 202-267-9664. Sunny.Lee-Fanning@faa.gov
ARM	Office of Rulemaking
	Director, Lirio L. Liu, 202-267-9677, Lirio.Liu@faa.gov
AUS	Office of Unmanned Aircraft Systems
	Director, Earl A. Lawrence, 202-267-0168, Earl.Lawrence@faa.gov
AVP	Office of Accident Investigation and Prevention
	Director, Michael J. O'Donnell, 202-267-8776, Michael.J.Odonnell@faa.gov
AVP	Office of Accident Investigation and Prevention
	Director, Michael J. O'Donnell, 202-267-8776, Michael.J.Odonnell@faa.gov

Major Field Organizations, Routing Symbols, Officials

Routing Symbol	Officials
AAL	Alaskan Region, Regional Administrator
	Kerry B. Long, 907-271-5645, Kerry.Long@faa.gov
	222 West 7th Avenue, Box 14
	Anchorage, AL 99513-7587
	Duty Officer, 907-271-5936
ACE	Central Region, Regional Administrator
	Joseph N. Miniace, 816-329-3050, Joseph.N.Miniace@faa.gov
	901 Locust
	Kansas City, Missouri 64106-2641
	Duty Officer, 816-426-4600
AEA	Eastern Region, Regional Administrator
	Marie Kennington-Gardiner, Acting, 718-977-6750, Marie.Kennington-Gardiner@faa.gov
	1 Aviation Plaza
	Jamaica, New York 11434-4809
	Duty Officer, 718-553-3100
AGL	Great Lakes Region, Regional Administrator
	Christina Drouet, Acting, 847-294-7294, Christina.Drouet@faa.gov
	2300 East Devon Avenue
	Des Plaines, Illinois 60018
	Duty Officer, 847-294-7410
AMC	Mike Monroney Aeronautical Center, Director
	Michelle Coppedge, 405-954-4521, Michelle.Coppedge@faa.gov
	6500 South MacArthur
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
ANE	New England Region, Regional Administrator
	Amy Corbett, 781-238-7020, Amy.Corbett@faa.gov
	1200 District Avenue
	Burlington, Massachusetts 01803

Routing Symbol	Officials
	Duty Officer, 404-305-5150
ANG	William J. Hughes Technical Center, Director
	Shelly J. Yak
	Atlantic City International Airport
	New Jersey 08405
	Duty Officer, 609-485-6482
AMA	FAA Academy, Director
	Vacant
	Building 12, Room 129
	P.O. Box 25082
	Oklahoma City, Oklahoma 73125
	Duty Office, 202-267-8627
AMK	Enterprise Services Center, Director
	Robyn M. Burk
	6500 South MacArthur Boulevard
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
AML	FAA Logistics Center, Program Director
	Randall Burke
	6500 South MacArthur Boulevard
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
ANM	Northwest Mountain Region, Regional Administrator
	David Suomi, 425-227-2002, David.Suomi@faa.gov
	1601 Lind Avenue, S.W.
	Renton, Washington 98055-4056
	Duty Officer, 907-271-5936
ASO	Southern Region, Regional Administrator
	Pearlis Johnson, Acting, 425-227-2002, Pearlis.Johnson@faa.gov
	1701 Columbia Avenue
	College Park, GA 30337
	Duty Officer, 404-305-5150
ASW	Southwest Region, Regional Administrator
	Robert Lowe, Acting
	2601 Meacham Boulevard
	Fort Worth, Texas 76137-4298
	Duty Officer, 817-222-5006
AWP	Western-Pacific Region, Regional Administrator
	Dennis Roberts
	15000 Aviation Boulevard
	Hawthorne, California 90261
	Duty Officer, 907-271-5936

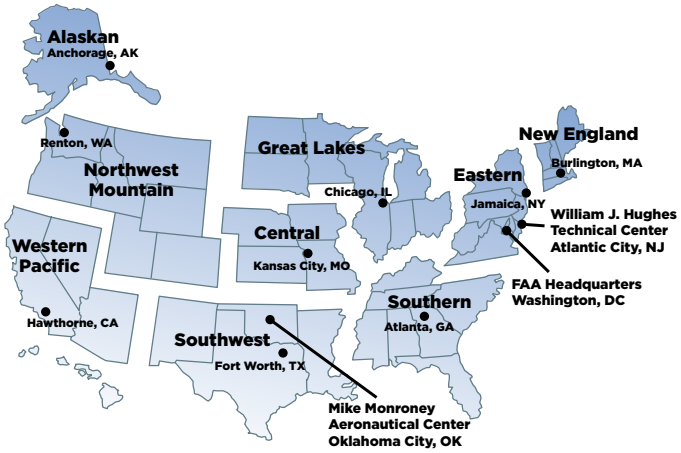
International Area Offices, Routing Symbols, Officials

Routing Symbol	Officials
AEU	Africa, Europe and Middle East Office
	Director, Catherine M. Lang, 228-11-5159, Katherine.M.Lang@faa.gov
APC	Asia, Pacific Office
	Director, Carey Fagan, +65 6476-9475, Carey.Fagan@faa.gov
AWH	Western Hemisphere
	Director, Christopher Barks, 507-317-5370, Christopher.Barks@faa.gov

Source: Office of Human Resource Management (AHR) - AHF-300

As of September 5, 2017

FAA Regions



Source: Office of FAA Regions and Center Operations, 202-267-9011

FAA Budget Summary

	FY 2016 Enacted	FY 2017 Enacted
Operations	**9,909,724**	**10,025,852**
Air Traffic (ATO)	7,506,934	7,559,785
Aviation Safety (AVS)	1,258,411	1,298,482
Commercial Space (AST)	17,800	19,826
Finance & Management (AFN)	760,500	771,342
NextGen (ANG)	60,089	60,155
Security & Hazmat Safety (ASH)	99,239	107,161
Staff Offices	206,751	209,101
Facilities & Equipment	**2,855,000**	**2,855,000**
Activity 1 Engineering & Testing	156,050	156,960
Activity 2 ATC Facilities & Equip.	1,832,201	1,791,710
Activity 3 Non-ATC Fac. & Equip.	171,000	182,930
Activity 4 Mission Support	225,700	237,400
Activity 5 Personnel & Expenses	470,049	486,000
Research, Engineering & Dev.	**166,000**	**176,500**
Safety	95,969	105,370
Economic Competitiveness	22,589	22,243
Environmental Sustainability	41,897	43,187
Mission Support	5,545	5,700
Grants-in-aid for Airports	**3,350,000**	**3,350,000**
Personnel & Related Expenses	107,100	107,691
Airport Cooperative Research	15,000	15,000
Grants-in-aid for Airports	3,191,900	3,185,934
Airport Technology Research	31,000	31,375
Small Community Air Service	5,000	10,000
TOTAL	16,280,724	16,407,352

Source: FAA Office of Financial Services

FAA Workforce Data: Line of Business and Location

	Year	
Line of Business	**2016**	**2017**
Air Traffic Organization (ATO)	31248	31078
Airports (ARP)	551	534
Aviation Safety (AVS)	7424	7301
Commercial Space Transportation (AST)	95	96
Security & Hazardous Materials Safety (ASH)	491	486
Staff Offices	5416	5357
Grand Total	45225	44852
Location (Region/Center)	**2016**	**2017**
Aeronautical Center	3436	3105
Alaskan	844	790
Central	1962	1563
Eastern	4303	4150
Great Lkaes	5095	4990
New England	1275	1064
Northwest Mountains	3849	3279
Southern	6232	6013
Southwest	4608	4256
Western-Pacific	4290	4170
Washington Headquarters	8603	10743
Technical Center	728	729
Grand Total	45225	44852

Source: Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

FAA Workforce Demographics: Minorities and Non-Minorities (Line of Business and Location)

	2016		2017	
Line of Business	**Minority**	**Non-Minority**	**Minority**	**Non-Minority**
Air Traffic Organization (ATO)	16.24%	83.76%	17.58%	82.42%
Airports (ARP)	19.24%	80.76%	19.85%	80.15%
Aviation Safety (AVS)	15.87%	84.13%	16.45%	83.55%
Commercial Space Transportation (AST)	15.79%	84.21%	18.75%	81.25%
Security & Hazardous Materials Safety (ASH)	23.22%	76.78%	24.90%	75.10%
Staff Offices	22.18%	77.82%	22.74%	77.26%
Grand Total	17.00%	83.00%	18.12%	81.88%
Location (Region/Center)	**Minority**	**Non-Minority**	**Minority**	**Non-Minority**
Aeronautical Center	16.50%	83.50%	17.07%	82.93%
Alaskan	13.63%	86.37%	15.06%	84.94%
Central	10.70%	89.30%	10.11%	89.89%
Eastern	14.46%	85.54%	15.73%	84.27%
Great Lkaes	8.87%	91.13%	9.64%	90.36%
New England	7.61%	92.39%	6.48%	93.52%
Northwest Mountains	11.51%	88.49%	10.86%	89.14%
Southern	20.47%	79.53%	22.19%	77.81%
Southwest	19.57%	80.43%	20.86%	79.14%
Western-Pacific	24.64%	75.36%	26.52%	73.48%
Washington Headquarters	21.36%	78.64%	21.58%	78.42%
Technical Center	14.97%	85.03%	15.91%	84.09%
Grand Total	17.00%	83.00%	18.12%	81.88%

Source: Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

FAA Workforce Demographics: Female and Male (Line of Business and Location)

	2016		2017	
Line of Business	**Female**	**Male**	**Female**	**Male**
Air Traffic Organization (ATO)	19.16%	80.84%	19.07%	80.93%
Airports (ARP)	38.48%	61.52%	38.58%	61.42%
Aviation Safety (AVS)	25.84%	74.16%	25.79%	74.21%
Commercial Space Transportation (AST)	32.63%	67.37%	30.21%	69.79%
Security & Hazardous Materials Safety (ASH)	39.92%	60.08%	41.15%	58.85%
Staff Offices	44.46%	55.54%	44.28%	55.72%
Grand Total	23.78%	76.22%	23.67%	76.33%
Line of Business	**Female**	**Male**	**Female**	**Male**
Aeronautical Center	34.14%	65.86%	32.85%	67.15%
Alaskan	19.19%	80.81%	18.35%	81.65%
Central	20.44%	79.56%	18.11%	81.89%
Eastern	17.94%	82.06%	17.25%	82.75%
Great Lkaes	17.08%	82.92%	16.55%	83.45%
New England	21.10%	78.90%	20.11%	79.89%
Northwest Mountains	23.02%	76.98%	21.23%	78.77%
Southern	19.77%	80.23%	19.46%	80.54%
Southwest	19.60%	80.40%	18.61%	81.39%
Western-Pacific	20.28%	79.72%	20.07%	79.93%
Washington Headquarters	34.91%	65.09%	34.46%	65.54%
Technical Center	29.12%	70.88%	29.63%	70.37%
Grand Total	23.78%	76.22%	23.67%	76.33%

Source: Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

Labor Relations Bargaining Units Labor Agreements Employees Represented

	Bargaining Units	Labor Agreements	Employees Represented
Unions	**33**	**15**	**35,215**
AFGE	4	3	1,556
AFSCME (HQ)	1	1	2,360
LIUNA	1	1	179
NAGE	2	2	170
NATCA	15	3	19,299
NFFE	3	1	612
PAACE	2	2	314
PASS	5	2	10,725
Unrepresented			971
Nonbargaining			9,300
		Total employees:	45,486

AFGE	American Federation of Government Employees
AFSCME	American Federation of State, County and Municipal Employees
LIUNA	Laborers' International Union of North America
NAGE	National Association of Government Employees
NATCA	National Air Traffic Controllers Association
NFFE	National Federation of Federal Employees
PAACE	Professional Association of Aeronautical Center Employees
PASS	Professional Aviation Safety Specialists

Source: Office of Human Resource Management (AHR): AHL-400
As of November 11, 2017

Air Traffic-related Facilities

Airports	**19,601**
Public Airports	5,116
Private Airports	14,485
ATC Towers	**521**
Federal	268
Contract	253
TRACONs	**160**
Stand-Alone	27
Combined ATC Towers	132
RAPCON	1
En Route Centers	**25**
ARTCC	21
CERAP/CCF	4

Source: OPSNET, Office of Performance Analysis (AJR-G)

Recently Published Rulemaking Documents

Recently published rulemaking documents can be found on the FAA website at the link below.

https://www.faa.gov/regulations_policies/rulemaking/recently_published/