



**Federal Aviation
Administration**

ADMINISTRATOR'S FACT BOOK

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Introduction — Acting Administrator Daniel K. Elwell



**Federal Aviation
Administration**



“If you can’t measure it, you can’t improve it.”

It is hard to argue the point.

We are in the safest period in the history of aviation. The “Fact Book” is a page-by-page compendium of who we are and what we do. Without question, the FAA manages the most complex aviation system on the planet. Approaching a billion passengers. Thousands of pieces of equipment and facilities. And an elite corps of professionals to manage all of it.

The National Airspace System is a national treasure—a dynamic organism that’s constantly evolving. Knowing the precise areas experiencing air traffic growth can lead to a greater focus on implementing new technologies, reexamining resources and sharpening infrastructure requirements. Each of these has a vital role in the FAA’s primary mission: safety. This booklet enables you to connect the dots.

Dan Elwell

Acting Administrator
Federal Aviation Administration

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.

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Safety

Accidents, 2006-2015

Calendar Year	Fatal	Total
2006	2	33
2007	1	28
2008	2	27
2009	2	30
2010	1	30
2011	0	33
2012	0	26
2013	2	23
2014	0	32
2015	0	30

Source: National Transportation Safety Board (NTSB)

Accident Rates, 2006-2015

Calendar Year	Accidents per 100,000 Departures	Accidents per 100,000 Flight Hours
2006	0.304964968	0.171311021
2007	0.256212419	0.142585634
2008	0.258419375	0.141163436
2009	0.309117227	0.170195075
2010	0.311402113	0.169004696
2011	0.344325777	0.183711319
2012	0.276870318	0.14670835
2013	0.247760301	0.129811806
2014	0.347507966	0.180261115
2015	0.328780274	0.167330868

Source: National Transportation Safety Board (NTSB)

Flight Hours, 2006-2015

Calendar Year	Flight Hours (100,000s)
2006	192.63209
2007	196.37322
2008	191.26766
2009	176.26832
2010	177.50986
2011	179.62965
2012	177.22236
2013	177.17957
2014	177.52026
2015	179.28551

Source: National Transportation Safety Board (NTSB)

Since March 20, 1997, aircraft with 10 or more seats used in scheduled passenger service have operated under Title 14 Code of Federal Regulations (CFR) 121.

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) Air Traffic Control (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	2013	6	7	6	4	3	14	11	13	7	12	4	8	95
	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	37	32	26	29	28	15	302
	2017	11	27	38	29	43	67	52	47	21	27	18	5	385
Pilot Deviation	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
	2017	328	384	394	479	504	462	469	471	404	388	367	311	4961
Runway Incursion	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
	2017	119	113	127	155	174	160	164	157	156	138	102	79	1644
Surface Incident	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	63	46	68	715
	2017	73	75	67	76	81	78	75	60	57	50	38	48	778

Airspace Incident Data (continued)

Incident Type	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Vehicle Pedestrian Deviations	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	38	34	36	435	
	2017	31	37	44	34	44	45	50	39	39	40	27	18	448	
Loss of Separation	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	
	2017	507	485	566	565	554	632	533	558	528	525	503	401	6357	
Incident Rates	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	SRER
High Risk Analysis Events	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
System Risk Event Rate	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
	2017	1	2	1	3	1	3	1	1	1	1	3	1	19	2.989
Runway Incursion Category A & B	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	RI Rate
Runway Incursion Rate	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
	2017	0	1	1	0	0	1	0	1	0	0	1	0	5	0.099

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 Facilities (ARTCCs)

Air Traffic in the NAS

	FY16	FY17	% Change
Air Traffic Control Tower (ATCT)	53,327,606	53,483,486	0.3%
Terminal Radar Approach Control Facilities (TRACON)	37,712,883	38,085,456	1.0%
Air Route Traffic Control Centers (ARTCC)	43,231,160	43,857,291	1.4%

*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	FY16	FY17	% Change
1	ATL	Atlanta	902,230	889,730	-1.4%
2	ORD	Chicago	874,148	860,944	-1.5%
3	LAX	Los Angeles	722,537	725,604	0.4%
4	DFW	Dallas/Fort Worth	685,309	663,717	-3.2%
5	DEN	Denver	570,395	588,251	3.1%
6	LAS	Las Vegas	559,960	572,262	2.2%
7	CLT	Charlotte	549,643	556,756	1.3%
8	EWR	Newark	536,755	519,121	-3.3%
9	JFK	JFK	480,976	474,122	-1.4%
10	SFO	San Francisco	454,565	459,855	1.2%
11	IAH	Houston	485,111	457,630	-5.7%
12	PHX	Phoenix	463,444	454,738	-1.9%
13	LGA	LaGuardia	470,885	439,157	-6.7%
14	MSP	Minneapolis	416,877	421,402	1.1%
15	MIA	Miami	429,308	421,381	-1.8%
16	SEA	Seattle	418,764	418,365	-0.1%
17	BOS	Boston	407,639	413,932	1.5%
18	DTW	Detroit	394,436	395,834	0.4%
19	DVT	Phoenix Deer Valley	374,567	384,098	2.5%
20	PHL	Philadelphia	408,697	378,230	-7.5%
21	SLC	Salt Lake City	329,875	338,977	2.8%
22	MCO	Orlando	323,836	333,262	2.9%
23	DCA	Washington	341,595	330,778	-3.2%
24	GFK	Grand Forks	321,818	325,626	1.2%
25	APA	Denver Centennial	340,606	324,002	-4.9%
26	FLL	Fort Lauderdale	303,865	322,090	6.0%
27	SNA	John Wayne	313,527	314,886	0.4%
28	LGB	Long Beach	314,194	313,033	-0.4%
29	HNL	Honolulu	307,768	312,649	1.6%
30	DAB	Daytona Beach	312,125	308,815	-1.1%

Rank	Airport Tower	Name	FY16	FY17	% Change
31	SFB	Orlando Sanford	286,491	304,078	6.1%
32	IAD	Dulles	299,210	299,553	0.1%
33	TEB	Teterboro	300,057	299,522	-0.2%
34	IWA	Phoenix/Williams Gateway	244,104	290,659	19.1%
35	TMB	Miami/Kendall-Tamiami Exec	283,701	289,197	1.9%
36	FFZ	Falcon Field	280,262	289,140	3.2%
37	ANC	Anchorage	287,432	287,450	0.0%
38	BWI	Baltimore	261,747	268,986	2.8%
39	PDX	Portland (OR)	257,792	262,989	2.0%
40	MDW	Chicago Midway	256,398	255,467	-0.4%
41	OAK	Oakland	244,792	254,090	3.8%
42	DAL	Dallas Love Field	252,572	252,507	0.0%
43	VNY	Van Nuys	232,335	245,255	5.6%
44	BNA	Nashville	226,754	243,042	7.2%
45	SEE	San Diego/Gillespie Field	222,248	238,000	7.1%
46	SAN	San Diego	229,567	236,726	3.1%
47	PRC	Prescott/E A Love Field	257,316	231,400	-10.1%
48	HWO	Hollywood/North Perry	186,131	227,557	22.3%
49	MEM	Memphis	229,274	227,303	-0.9%
50	HOU	Houston	224,730	226,592	0.8%

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

National Airspace System (NAS) Operational Inventory

Capability	As of March 1, 2018
Automation	2,526
Communications	19,245
Environmental	24,249
Mission Support	1,970
Navigation	13,236
Power	7,486
Surveillance	2,775
Weather	2,564

https://employees.faa.gov/org/linebusiness/ato/operations/technical_operations/ajw1/ajw1B/fsep/

Source: 2018_March_NOF.pdf

National Airspace System (NAS) On-Time Performance

Fiscal Year	NAS On-Time Performance
2015	90.7%
2016	92.0%
2017	91.9%

Percent of total flights net delays, diversions and cancellations.

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

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

Rank	TRACON	Name	FY16	FY17	% Change
1	SCT	Southern California	2,099,756	2,176,421	3.7%
2	N90	New York	1,949,388	1,953,663	0.2%
3	NCT	Northern California	1,586,639	1,607,203	1.3%
4	PCT	Potomac	1,426,859	1,378,247	-3.4%
5	C90	Chicago	1,254,412	1,255,922	0.1%
6	D10	Dallas - Ft Worth	1,213,222	1,202,735	-0.9%
7	A80	Atlanta	1,198,348	1,193,926	-0.4%
8	MIA	Miami Tower	1,009,725	1,039,406	2.9%
9	I90	Houston	913,611	903,379	-1.1%
10	D01	Denver	820,064	850,930	3.8%
11	P50	Phoenix	672,972	699,983	4.0%
12	F11	Central Florida	673,746	692,938	2.8%
13	A90	Boston	639,498	649,110	1.5%
14	CLT	Charlotte Tower	636,264	644,693	1.3%
15	L30	Las Vegas	605,514	609,118	0.6%
16	S46	Seattle	578,654	587,978	1.6%
17	PHL	Philadelphia	574,328	549,093	-4.4%
18	M98	Minneapolis	525,247	530,741	1.0%
19	D21	Detroit	521,998	523,154	0.2%
20	TPA	Tampa Tower	456,195	475,547	4.2%
21	HCF	Honolulu Control Facility	478,441	439,192	-8.2%
22	S56	Salt Lake City	408,675	431,241	5.5%
23	PBI	Palm Beach Tower	282,212	376,185	33.3%
24	JAX	Jacksonville Tower	361,549	363,248	0.5%
25	AUS	Austin Tower	303,650	330,448	8.8%
26	CMH	Columbus Tower	325,673	329,420	1.2%
27	SAT	San Antonio Tower	318,245	327,097	2.8%
28	ZSU	San Juan CERAP	324,336	325,096	0.2%
29	T75	St Louis	313,275	322,354	2.9%
30	DAB	Daytona Beach Tower	317,406	318,404	0.3%
31	P80	Portland	312,801	312,791	0.0%
32	P31	Pensacola	292,432	298,804	2.2%
33	M03	Memphis	301,930	297,172	-1.6%
34	BNA	Nashville Tower	264,992	286,214	8.0%
35	PIT	FAA Pittsburgh ATC Tower	260,171	271,633	4.4%
36	ATL	Anchorage	270,295	267,751	-0.9%
37	E10	High Desert	248,575	257,564	3.6%
38	IND	Indianapolis Tower	252,756	255,448	1.1%
39	RDU	Raleigh-Durham Tower	239,428	253,698	6.0%
40	CRP	Corpus Christi Tower	255,062	250,808	-1.7%
41	MSY	New Orleans Tower	248,248	250,068	0.7%
42	CVG	Cincinnati Tower	230,738	241,744	4.8%

Rank	TRACON	Name	FY16	FY17	% Change
43	RSW	Fort Myers Tower	225,797	236,807	4.9%
44	MKE	Milwaukee Tower	227,363	226,323	-0.5%
45	OKC	Oklahoma City Tower	222,389	221,579	-0.4%
46	SDF	Louisville Standiford Tower	208,772	219,719	5.2%
47	MCI	Kansas City Tower	211,004	214,297	1.6%
48	R90	Omaha	207,577	207,429	-0.1%
49	Y90	Yankee	205,504	201,846	-1.8%
50	TUL	Tulsa	190,577	200,526	5.2%

*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	FY16	FY17
ZTL	Atlanta	3,047,184	3,101,809
ZNY	New York	2,684,769	2,706,705
ZDC	Washington	2,464,286	2,527,500
ZJX	Jacksonville	2,393,729	2,485,788
ZMA	Miami	2,546,654	2,480,528
ZAU	Chicago	2,397,472	2,422,857
ZOB	Cleveland	2,387,361	2,415,492
ZFW	Fort Worth	2,299,251	2,308,606
ZHU	Houston	2,250,837	2,250,740
ZLA	Los Angeles	2,229,653	2,240,289
ZME	Memphis	2,099,894	2,131,376
ZID	Indianapolis	2,023,298	2,068,296
ZMP	Minneapolis	1,941,944	1,977,176
ZDV	Denver	1,764,984	1,819,597
ZKC	Kansas City	1,751,235	1,792,081
ZOA	Oakland	1,640,881	1,734,144
ZAB	Albuquerque	1,564,647	1,566,140
ZBW	Boston	1,523,097	1,545,695
ZLC	Salt Lake City	1,394,441	1,429,054
ZSE	Seattle	1,173,627	1,206,438
ZAN	Anchorage	582,494	595,686
HCF	Honolulu Control Facility	489,032	471,946
ZSU	San Juan CERAP**	312,528	304,548
ZUA	Guam CERAP**	267,862	274,800

*Operations at ARTCC facilities are also known as aircraft handled

**CERAP (Center Radar Approach Control)

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

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

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

Fiscal Year 2017

CONUS** - AFSS*** Contract	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
Services via Specialist	277,172	258,808	204,943	199,984	220,890	241,289	251,199	252,913	267,963	288,485	284,508	257,763

Fiscal Year 2017

Alaska Facility	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
Barrow (BRW)	5,051	4,652	4,475	3,586	3,267	3,576	2,814	2,939	3,227	4,861	4,018	2,955
Cold Bay (CDB)	1,818	1,514	1,387	2,204	1,167	1,366	2,087	1,937	3,006	2,793	2,963	2,301
Dillingham (DLG)	5,146	4,444	4,610	3,308	3,273	3,851	4,157	5,199	7,243	7,524	7,576	5,961
Kenai (ENA)	11,602	11,690	11,498	10,044	9,586	10,553	12,595	16,425	19,542	22,559	19,554	17,050
Fairbanks (FAI)	6,142	5,857	6,196	5,877	6,289	7,612	6,069	8,135	10,406	11,994	13,861	13,214
Homer (HOM)	2,928	2,331	2,379	1,981	1,997	2,599	3,097	4,574	6,504	9,487	6,501	5,425
Illiamna (ILI) *	1,455	0	0	0	0	0	0	1,495	5,513	8,347	8,202	5,520
Juneau (JNU)	7,037	6,679	6,012	5,734	5,312	5,930	5,577	8,272	9,536	10,344	10,646	9,653
Ketchikan (KTN)	4,840	3,378	3,875	3,463	3,364	3,935	5,881	11,489	18,996	22,761	19,314	12,158
McGrath (MCG) *	0	0	0	0	0	0	0	1,178	1,902	1,467	1,734	1,816
Nome (OME)	9,024	8,055	6,766	8,982	8,501	9,570	9,219	10,385	11,195	10,362	11,782	12,466
Northway (ORT) *	0	0	0	0	0	0	0	844	690	697	1,236	1,575
Kotzebue (OTZ)	6,615	7,022	6,628	6,162	5,703	7,823	5,804	7,394	7,992	9,034	9,462	9,787
Palmer (PAQ)	2,798	2,036	1,735	1,976	1,647	2,139	3,224	3,338	3,740	3,569	3,570	3,342
Deadhorse (SCC)	2,124	1,967	1,957	1,682	1,623	1,976	2,241	2,684	2,853	2,801	3,511	2,895
Sitka (SIT)	2,447	2,002	1,772	1,816	1,901	2,778	3,150	3,726	5,033	5,336	5,907	3,823
Talkeetna (TKA)	1,971	1,098	608	564	667	2,274	3,421	7,010	10,635	11,245	8,603	5,021

*Seasonal Facility

**CONUS (Continental United States)

Source: Flight Service Stations, AJR-B

***AFSS (Automated Flight Service Station)

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

Fiscal Year	Number of Delayed Operations	% Change
2013	333,463	20.3%
2014	319,515	-4.2%
2015	333,818	4.5%
2016	342,294	2.5%
2017	443,098	29.4%

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

Percent Share of Delay Causes

Month	Total Delays	Percent Share of Delay Causes				
		Weather	Volume	Equip-ment	Runway	Other
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%

Percent Share of Delay Causes

Month	Total Delays	Weather	Volume	Equip-ment	Runway	Other
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%
Oct-16	26,619	48%	25%	0%	20%	6%
Nov-16	23,498	60%	32%	0%	5%	3%
Dec-16	25,411	54%	31%	0%	10%	4%
Jan-17	29,548	68%	21%	0%	7%	4%
Feb-17	25,607	55%	31%	2%	5%	7%
Mar-17	38,291	51%	28%	0%	4%	18%
Apr-17	41,977	54%	21%	0%	18%	7%
May-17	49,208	50%	17%	0%	27%	5%
Jun-17	52,981	69%	16%	0%	10%	4%
Jul-17	49,916	74%	16%	1%	5%	5%
Aug-17	47,951	72%	20%	0%	3%	4%
Sep-17	32,091	51%	33%	0%	8%	7%

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	1,253,814
Hobbyists	369,200
Non-Hobbyists	968,858
Remote Pilot Certificates Issued	113,947
Part 107 Waivers Issued	2,151
Top Five Waiver Requests Approved	
Night Operations	2,020
Operations Over People	23
Beyond Visual Line of Sight (BVLOS)	30
Altitude	27
Ops from Moving Vehicle	6
Airspace Authorizations Issued	29,780

Source: UAS Integration Office

As of: November 28, 2018

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 shoreside 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)	
	2016	2015	2016	2015
TOTAL	211.8	210.0	24.8	24.1

By Type Aircraft	2016	2015	2016	2015
Piston	142.6	141.1	13.5	12.8
Turboprop	9.8	9.7	2.7	2.5
Jet	13.8	13.4	3.8	3.8
Rotary Wing	10.6	10.5	3.1	3.3
Experimental	27.6	27.9	1.2	1.3
Special Light Sport	2.5	2.4	0.2	0.2
Other	5.0	4.9	0.2	0.2

By Type Flying	2016	2015	2016	2015
Corporate	9.8	11.3	2.6	2.4
Business	16.2	15.9	1.8	1.8
Personal	142.1	139.7	7.9	7.4
Instructional	15.8	15.7	4.9	4.6
Aerial Application	3.2	3.3	0.9	0.9
Aerial Observation	6.1	5.5	1.4	1.4
Aerial Other	0.8	0.9	0.2	0.2
External Load	0.3	0.3	0.2	0.2
Other Work	1.3	1.3	0.4	0.2
Sightseeing	1.1	1.2	0.2	0.2
Air Tours	0.6	0.5	0.4	0.3
Air Taxi	5.8	6.5	2.4	2.5
Air Medical Services	2.5	2.4	0.9	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	1,638	2,054	1,533
Other Design Approvals Issued	3,249	3,290	1,519
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	1,556	1,571	1,491

*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

FAA Aerospace Forecast¹

Fiscal Year												FORECAST				
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2023	2028	2033	2038		
Domestic	Available Seat Miles (mil.)	679,479	693,479	694,413	699,837	711,048	743,569	783,072	809,013	848,648	924,213	1,002,827	1,108,102	1,228,116		
	Revenue Passenger Miles (mil.)	555,339	572,165	577,677	583,982	600,039	628,545	663,176	683,344	719,197	791,682	863,948	957,784	1,063,690		
	Enplanements (thou.)	634,811	650,094	653,787	654,399	668,953	696,284	726,194	743,473	778,127	844,316	909,105	994,587	1,089,931		
International	Available Seat Miles (mil.)	281,310	300,410	300,523	303,706	315,451	323,329	328,600	334,713	347,995	415,394	486,172	565,769	655,743		
	Revenue Passenger Miles (mil.)	230,961	242,476	244,565	250,264	256,693	260,968	264,782	271,268	282,082	336,724	394,304	459,062	532,297		
	Enplanements (thou.)	77,296	81,022	82,915	85,063	87,999	90,219	93,439	96,929	101,796	119,221	140,458	164,904	193,791		

¹ FAA Aerospace Forecast, March 2018

Terminal Area Forecast (TAF)²

Fiscal Year												FORECAST				
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2023	2028	2033	2038		
Operations, Itinerant (thou.)	Air Carrier	12,972	13,187	13,208	13,110	13,370	14,069	14,720	15,358	15,993	18,953	20,762	22,689	24,723		
	Air Taxi & Commuter	12,133	11,925	11,679	11,482	11,046	10,505	10,108	9,704	9,566	7,983	8,239	8,567	8,915		
	GA	34,402	33,767	33,641	33,102	32,572	32,402	32,136	32,141	32,240	32,774	33,346	33,962	34,629		
	Military	3,583	3,671	3,459	3,393	3,417	3,495	3,498	3,508	3,508	3,508	3,508	3,509	3,509		
	Total	63,090	62,550	61,987	61,088	60,405	60,471	60,463	60,710	61,307	63,218	65,855	68,726	71,777		
Operations, Local (thou.)	Civilian	36,768	36,079	35,882	35,668	35,574	35,881	35,731	35,925	36,218	36,862	37,549	38,288	39,090		
	Military	1,377	1,387	1,346	1,339	1,297	1,261	1,189	1,244	1,244	1,244	1,244	1,244	1,244		
	Total	38,145	37,467	37,229	37,007	36,872	37,142	36,920	37,169	37,463	38,106	38,793	39,533	40,334		

² Terminal Area Forecast, February 2018; includes active airports in the National Plan of Integrated Airport Systems (NPIAS)

Commercial Space Transportation

Licensed Commercial Launches

	FY2019	FY2018	FY2017	FY2016	FY2015
Licensed Commercial Launches					
TOTAL	<u>4</u>	32	18	11	8
Number of Orbital Launches	<u>4</u>	24	18	11	7
Number of Suborbital Launches	<u>0</u>	8	0	0	1
By Launch Vehicle Type					
Antares Configuration 120	<u>0</u>	0	0	0	0
Antares Configuration 130	<u>0</u>	0	0	0	1
Antares Configuration 230	<u>1</u>	2	1	0	0
Atlas V-401	<u>0</u>	0	2	2	0
Atlas V-421	<u>0</u>	0	0	1	0
Atlas V-431	<u>0</u>	0	1	0	0
Delta IV Heavy	<u>0</u>	0	0	0	1
Dragon Pad Abort Test Vehicle	<u>0</u>	0	0	0	1
Electron	<u>1</u>	1	1	0	0
Falcon 9	<u>2</u>	19	0	0	1
Falcon 9 Version 1.1	<u>0</u>	0	0	0	4
Falcon 9 Version 1.2	<u>0</u>	0	12	8	0
Falcon Heavy	<u>0</u>	1	0	0	0
Minotaur C	<u>0</u>	1	0	0	0
Minotaur IV	<u>0</u>	0	1	0	0
Rocket 1	<u>0</u>	1	0	0	0
SARGE	<u>0</u>	1	0	0	0
SpaceShip Two	<u>0</u>	3	0	0	0
New Shepard System	<u>0</u>	3	0	0	0

By Launch Site					
Cape Canaveral Air Force Station	<u>0</u>	10	5	11	7
Kennedy Space Center	<u>1</u>	4	7	0	0
Mahia Peninsula, New Zealand	<u>1</u>	1	1	0	0
Mid-Atlantic Regional	<u>1</u>	2	1	0	1
Mojave Air and Space Port	<u>0</u>	3	0	0	0
Pacific Spaceport Complex Alaska	<u>0</u>	1	0	0	0
Spaceport America	<u>0</u>	1	0	0	0
Vandenberg Air Force Base	<u>1</u>	7	4	0	0
West Texas Launch Site	<u>0</u>	3	0	0	0

Experimental Permit Launches

	FY2019	FY2018	FY2017	FY2016	FY2015
Experimental Permit Launches					
TOTAL	<u>0</u>	0	1	4	2

Re-Entries

	FY2019	FY2018	FY2017	FY2016	FY2015
Re-entries					
TOTAL	<u>0</u>	3	3	2	4
By Vehicle					
Dragon	<u>0</u>	3	3	2	3
Orion spacecraft	<u>0</u>	0	0	0	1

Active Launch Site Operator Licenses

Operator	Site	Location
Harris Corporation	California Spaceport	California
Oklahoma Space Industry Development Authority	Burns Flat, Oklahoma	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	Alaska
Virginia Commercial Space Flight Authority	Wallops Flight Facility	Virginia
Adams County Colorado	Spaceport Colorado	Colorado

Source: provided on 11-30-2018; by FAA Office of Commercial Space Transportation, 202-267-7793

Airmen

Airmen Certification System – Active Pilots Summary (October 1, 2018)

Note: These totals are based on airmen addresses.

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS
AA-Americas*	2	0	0	8	3	7	20
AE-Europe And Canada*	85	2	0	60	54	81	282
Alabama	2,032	81	3	2,094	1,986	1,539	7,735
Alaska	1,756	56	1	2,605	1,637	2,244	8,299
American Samoa	0	0	0	0	0	2	2
AP-Pacific*	246	1	0	49	80	46	480
Arkansas	1,648	87	1	1,652	1,094	988	5,470
Arizona	5,123	177	0	5,081	4,464	5,837	20,682
California	17,634	522	7	20,513	10,665	12,635	61,976
Colorado	4,407	148	1	4,671	3,113	6,598	18,938
Connecticut	1,122	29	0	1,569	741	1,400	4,861
Delaware	370	14	0	366	219	431	1,400
Dist of Columbia	218	4	0	210	84	136	652
Fed St Micronesia*	0	0	0	0	2	0	2
Florida	18,995	578	2	13,785	10,979	19,481	63,820
Georgia	4,518	160	4	4,600	2,614	7,561	19,457
Guam	34	0	0	18	20	107	179
Hawaii	859	16	0	547	712	1,292	3,426
Idaho	1,331	89	2	1,743	1,099	1,197	5,461
Illinois	4,279	304	6	5,084	2,559	4,925	17,157
Indiana	2,882	206	3	3,302	1,640	2,428	10,461
Iowa	1,381	99	6	2,027	922	763	5,198
Kansas	1,800	88	3	2,621	1,263	1,370	7,145
Kentucky	1,579	58	6	1,641	858	2,146	6,288
Louisiana	1,557	66	0	1,631	1,128	1,193	5,575
Maine	598	53	1	843	468	533	2,496

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS
Marshall Islands*	0	0	0	0	0	1	1
Maryland	2,927	92	3	2,223	1,278	1,853	8,376
Massachusetts	2,392	65	1	2,714	1,203	1,651	8,026
Michigan	3,592	218	8	4,742	2,260	3,488	14,308
Minnesota	2,843	109	1	3,948	2,060	3,942	12,903
Mississippi	1,453	31	1	1,148	857	978	4,468
Missouri	2,628	164	4	3,115	1,652	2,205	9,768
Montana	1,005	36	2	1,374	896	687	4,000
Nebraska	1,057	38	0	1,284	638	661	3,678
New Hampshire	742	48	2	983	586	1,443	3,804
New Jersey	2,551	43	3	2,568	1,350	2,400	8,915
New Mexico	1,204	77	2	1,468	1,016	660	4,427
New York	5,449	139	13	5,102	2,696	3,185	16,584
Nevada	1,602	58	1	1,755	1,459	2,972	7,847
North Carolina	3,760	166	4	4,441	2,454	4,701	15,526
North Dakota	1,164	26	0	1,055	1,102	298	3,645
North Mariana ISL	5	0	0	1	4	3	13
Ohio	4,024	253	21	5,154	2,358	4,037	15,847
Oklahoma	2,745	55	1	2,641	1,597	1,597	8,636
Oregon	2,426	103	2	3,289	2,044	1,644	9,508
Palau*	0	0	0	1	0	0	1
Pennsylvania	4,110	195	9	4,648	2,433	4,368	15,763
Puerto Rico	702	48	0	330	232	359	1,671
Rhode Island	286	9	0	290	149	240	974
South Carolina	1,723	77	0	2,041	1,145	2,242	7,228
South Dakota	562	56	1	794	525	461	2,399
Tennessee	3,157	112	3	3,219	1,951	4,532	12,974
Texas	14,329	404	4	13,669	8,720	17,534	54,660
Utah	2,534	74	0	2,307	1,578	2,695	9,188
Vermont	310	10	1	451	256	239	1,267

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS
Virginia	3,838	155	4	3,784	2,546	4,469	14,796
Virgin Islands	57	1	0	47	27	40	172
Washington	5,183	216	2	5,937	3,291	6,574	21,203
West Virginia	575	41	1	568	318	321	1,824
Wisconsin	2,400	262	3	3,406	1,360	2,207	9,638
Wyoming	514	22	1	702	332	339	1,910

*Note: The Flight Standards Region includes Armed Forces (military personnel holding civilian certificate and stationed in a foreign country), and Federated States of Micronesia, Marshall Islands, and Palau.

Airmen Certification System – Active Pilots Summary (Grand Totals, October 1, 2018)

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS
State/US Territory Totals:	158,432	6,242	145	167,873	100,815	159,973	593,480
Foreign Address Totals:	11,597	26	0	7,749	14,860	7,819	42,051

FAA Resources

Washington Headquarters, Routing Symbols, Officials

Routing Symbol	Officials
AOA	<p>Administrator</p> <p>Daniel K. Elwell, Acting, 202-267-3111, Daniel.Elwell@faa.gov</p> <p>Tina Amereihn, Chief of Staff, 202-267-3180, Tina.Amereihn@faa.gov</p>
ADA	<p>Deputy Administrator</p> <p>Carl Burleson, 202-267-8111, Carl.Burleson@faa.gov</p> <p>Elisabeth Smeda, Senior Advisor, 202-267-6541, Elisabeth.Smeda@faa.gov</p> <p>Senior Advisor, Unmanned Aircraft Systems Integration</p> <p>Vacant</p>
AAE	<p>Office of Audit and Evaluation</p> <p>Director, H. Clayton Foushee, 202-267-9000, Clay.Foushee@faa.gov</p>
AJO	<p>Chief Operating Officer, Air Traffic Organization</p> <p>Teri L. Bristol, 202-267-1240, Teri.Bristol@faa.gov</p> <p>Timothy Arel, Deputy Chief Operating Officer, 202-267-1240, Timothy.Arel@faa.gov</p>
AJG	<p>Management Services</p> <p>Vice President, Lisbeth L. Mack, 202-267-9341, Lisbeth.Mack@faa.gov</p>
AJI	<p>Safety and Technical Training</p> <p>Vice President, Jeffrey Vincent, 404-305-6212, Jeffrey.Vincent@faa.gov</p>
AJM	<p>Program Management Organization</p> <p>Vice President, Kristen G. Burnham, 202-267-3280, Kristen.Burnham@faa.gov</p>
AJR	<p>Systems Operations</p> <p>Vice President, Michael C. Artist, 202-267-0753, Mike.C.Artist@faa.gov</p>
AJT	<p>Air Traffic Services</p> <p>Vice President, Glen Martin, 202-267-0896, Glen.Martin@faa.gov</p>
AJV	<p>Mission Support Services</p> <p>Jodi McCarthy, 202-267-8261, Jodi.McCarthy@faa.gov</p>
AJW	<p>Technical Operations Services</p> <p>Vice President, Vaughn A. Turner, 202-267-3366, Vaughn.Turner@faa.gov</p>
ACR	<p>Assistant Administrator for Civil Rights</p> <p>Courtney L. Wilkerson, Acting, 202-267-3264, Courtney.Wilkerson@faa.gov</p> <p>Deputy Assistant Administrator, Courtney L. Wilkerson, 202-267-3264, Courtney.Wilkerson@faa.gov</p>
AFN	<p>Assistant Administrator for Finance and Management</p> <p>Mark House, Acting, 202-267-8627, Mark.House@faa.gov</p>
ABA	<p>Deputy Assistant Administrator for Financial Services/CFO</p> <p>Carl Burrus, Acting, 202-267-9105, Carl.Burrus@faa.gov</p>
ACQ	<p>Deputy Assistant Administrator for Acquisition and Business</p> <p>Nathan S. Tash, 202-267-7222, Nathan.Tash@faa.gov</p>
AIT	<p>Deputy Assistant Administrator for Information and Technology</p> <p>Sean Torpey, Acting, 202-267-8627, Sean.Torpey@faa.gov</p>
ARC	<p>Deputy Assistant Administrator for Regions and Center Operations</p> <p>Joseph N. Miniace, Acting, 816-329-3050 Joseph.N.Miniace@faa.gov</p>

Routing Symbol	Officials
AGC	<p>Chief Counsel</p> <p>Charles Trippe, 202-267-3222, Charles.Trippe@faa.gov</p> <p>Principal Deputy Chief Counsel</p> <p>Patricia McNall, 202-267-3773, Pat.McNall@faa.gov</p>
AGI	<p>Assistant Administrator for Government and Industry Affairs</p> <p>Christopher Brown, 202-267-3277, Chris.C.Brown@faa.gov</p>
AHR	<p>Assistant Administrator for Human Resource Management</p> <p>Annie B. Andrews, 202-267-3456, Annie.B.Andrews@faa.gov</p> <p>Acting Deputy Assistant Administrator, Lisbeth Mack, 202-267-9341, Lisbeth.Mack@faa.gov</p>
AHA	<p>Office of the Accountability Board</p> <p>Executive Director, Tammy Van Keuren, 202-267-3817, Tammy.Van.Keuren@faa.gov</p>
AHB	<p>Director, Compensation, Benefits and Worklife, Elizabeth A. Dayan, 202-267-4028, Elizabeth.Dayan@faa.gov</p>
AHD	<p>Director, Talent Development (Chief Learning Officer), Melissa King, 202-267-9041, Melissa.King@faa.gov</p>
AHF	<p>Director, Human Resource Services, M. Renee Coates, 202-267-3850, Renee.Coates@faa.gov</p>
AHL	<p>Director, Labor and Employee Relations, Laura R. Glading, 202-267-6268, Laura.Glading@faa.gov</p>
ANG	<p>Assistant Administrator for NextGen</p> <p>Pamela D. Whitley, Acting, 202-267-7111, Pamela.Whitley@faa.gov</p> <p>Deputy Assistant Administrator, Pamela D. Whitley, 202-267-7111, Pamela.Whitley@faa.gov</p> <p>Director, Joint Program Development Office, Karlin R. Toner, 202-267-0104, Karlin.Toner@faa.gov</p> <p>Chief Scientific and Technical Advisor for Architecture and Systems Development, Steven W. Bradford, 202-267-1218, Steve.Bradford@faa.gov</p> <p>Director, NAS Systems Engineering Service Office, Michele M. Merkle, 202-267-2708, Michele.Merkle@faa.gov</p> <p>Director, Portfolio Management and Technology Development, Paul V. Fontaine, 202-267-9251, Paul.Fontaine@faa.gov</p> <p>Director, Interagency Planning Office, Roosevelt Mercer, Jr., 202-267-4963, Roosevelt.Mercer@faa.gov</p>
AOC	<p>Assistant Administrator for Communications</p> <p>Gregory Martin, 202-267-3454, Gregory.Martin@faa.gov</p> <p>Deputy, Public Affairs, Laura J. Brown, 202-267-3455, Laura.J.Brown@faa.gov</p> <p>Deputy, Corporate Communications, Jeannie Shiffer, 202-267-8859, Jeannie.Shiffer@faa.gov</p>
APL	<p>Assistant Administrator for Policy, International Affairs and Environment</p> <p>Benjamin Bailey Edwards, 202-267-7654, Bailey.Edwards@faa.gov</p> <p>Deputy, Assistant Administrator, Nancy E. Shellabarger, Acting, 202-267-7954, Nan.Shellabarger@faa.gov</p>
AEE	<p>Office of Environment and Energy</p> <p>Executive Director, Kevin W. Welsh, 202-267-1451, Kevin.Welsh@faa.gov</p>
API	<p>Office of International Affairs</p> <p>Executive Director, Christopher Rocheleau, Chris.Rocheleau@faa.gov</p>
APO	<p>Office of Aviation Policy and Plans</p> <p>David Chien, Acting, 202-267-3274, David.Chien@faa.gov</p>

Routing Symbol	Officials
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
AXF	Office of Joint Security and Hazardous Materials Office, West Director, Office of Infrastructure Protection, Patricia A. Pausch, 847-294-74115, Patricia.Pausch@faa.gov
AXH	Office of Hazardous Materials Director, Janet McLaughlin, 202-267-9419, Janet.McLaughlin@faa.gov
AXI	Director, Office of Investigations Michelle Root, 202-267-1456, Michelle.Root@faa.gov
AXM	Director, Office of Business and Mission Services Donald Faulkner, 202-267-8005, Don.Faulkner@faa.gov
AXO	Office of National Security Programs and Incident Response Director, Joshua P. Holtzman, 202-267-7980, Joshua.Holtzman@faa.gov
AXP	Director, Office of Personnel Security Gerald K. Moore, 424-405-7100, 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 Vacant
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
AOS	Office of Quality, Integration and Executive Services Director, Sunny Lee-Fanning, 202-267-9664. Sunny.Lee-Fanning@faa.gov

Routing Symbol	Officials
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

Major Field Organizations, Routing Symbols, Officials

Routing Symbol	Officials
AAL	Alaskan Region, Regional Administrator Kerry Long, 907-271-5645, Kerry.Long@faa.gov 222 West 7th Avenue, Box 14 Anchorage, AL 99513-7587 Regional Operations Center, 206-231-2000
ACE	Central Region, Regional Administrator Joseph Miniace, 816-329-3050, Joseph.N.Niniace@faa.gov 901 Locust Street, Suite 501 Kansas City, Missouri 64106-2641 Regional Operations Center, 817-222-5006
AEA	Eastern Region, Regional Administrator Jennifer Solomon, 718-553-3000, Jennifer.Solomon@faa.gov 1 Aviation Plaza Jamaica, New York 11434-4809 Regional Operations Center, 404-305-5150
AGL	Great Lakes Region, Regional Administrator Rebecca MacPherson, 847-294-7294, Rebecca.MacPherson@faa.gov O'Hare Lake Office Center 2300 East Devon Avenue, Room 401 Des Plaines, Illinois 60018 Regional Operations Center, 817-222-5006
AMC	Mike Munroney 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 David Spencer, Acting, 781-238-7020, David.Spencer@faa.gov 1200 District Avenue Burlington, Massachusetts 01803 Regional Operations Center, 404-305-5150

Routing Symbol	Officials
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 Keith Deberry, 405-954-8700, Keith.Deberry@faa.gov 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, 206-231-2001, David.Suomi@faa.gov 2200 South 216th Street Des Moines, Washington 98198 Regional Operations Center, 206-231-2000
ASO	Southern Region, Regional Administrator Michael C. O'Harra, 404-305-5000, Michael.O'Harra@faa.gov 1701 Columbia Avenue College Park, GA 30337 Regional Operations Center, 404-305-5150
ASW	Southwest Region, Regional Administrator Terry L. Biggio, 817-222-5001, Terry.Biggio@faa.gov 10101 Hillwood Parkway Fort Worth, TX 76177 Regional Operations Center, 817-222-500
AWP	Western-Pacific Region, Regional Administrator Tamara Swann, Acting, 424-405-7000, Tamara.Swann@faa.gov 777 S. Aviation Blvd., Suite 150 El Segundo, CA 90245 Regional Operations Center, 206-231-2000

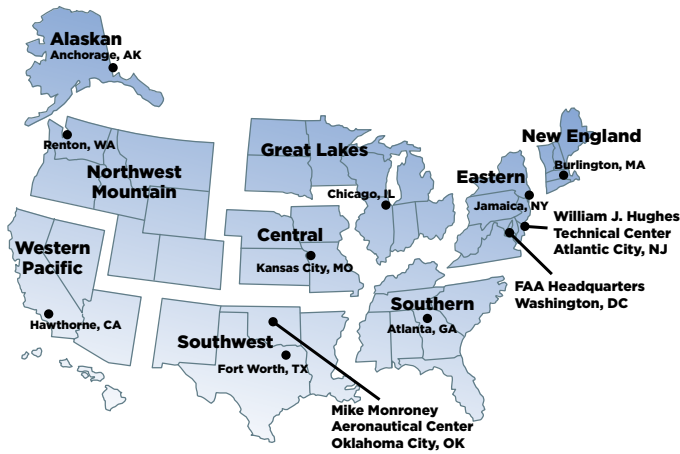
International Area Offices, Routing Symbols, Officials

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 August 15, 2018

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

Line of Business	Year	
	2016	2017
Air Traffic Organization (ATO)	31,248	31,174
Airports (ARP)	551	554
Aviation Safety (AVS)	7,424	7,404
Commercial Space Transportation (AST)	95	98
Security & Hazardous Materials Safety (ASH)	491	492
Staff Offices	5,416	5,420
Grand Total	45,225	45,142

Location (Region/Center)	2016	2017
Aeronautical Center	3,436	3,440
Alaskan	844	840
Central	1,962	1,950
Eastern	4,303	4,286
Great Lakes	5,095	5,092
New England	1,275	1,263
Northwest Mountain	3,849	3,842
Southern	6,232	6,180
Southwest	4,608	4,569
Western-Pacific	4,290	4,271
Washington Headquarters	8,603	8,682
Technical Center	728	727
Grand Total	45,225	45,142

Source: AHP-200; 202-267-2830

Data pulled from 2017 and 2018 Pay Period: 3

Full-Time, Permanent Employees Only;

As of February 23, 2018

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

Line of Business	2016		2017	
	Minority	Non-Minority	Minority	Non-Minority
Air Traffic Organization (ATO)	16.24%	83.76%	16.5%	83.5%
Airports (ARP)	19.24%	80.76%	19.7%	80.3%
Aviation Safety (AVS)	15.87%	84.13%	15.9%	84.1%
Commercial Space Transportation (AST)	15.79%	84.21%	16.3%	83.7%
Security & Hazardous Materials Safety (ASH)	23.22%	76.78%	23.2%	76.8%
Staff Offices	22.18%	77.82%	22.3%	77.7%
Grand Total	17.00%	83.00%	17.2%	82.8%

Location (Region/Center)	Minority	Non-Minority	Minority	Non-Minority
Aeronautical Center	16.50%	83.50%	16.9%	83.1%
Alaskan	13.63%	86.37%	13.7%	86.3%
Central	10.70%	89.30%	10.8%	89.2%
Eastern	14.46%	85.54%	14.7%	85.3%
Great Lakes	8.87%	91.13%	9.0%	91.0%
New England	7.61%	92.39%	7.5%	92.5%
Northwest Mountain	11.51%	88.49%	11.5%	88.5%
Southern	20.47%	79.53%	20.9%	79.1%
Southwest	19.57%	80.43%	19.6%	80.4%
Western-Pacific	24.64%	75.36%	25.1%	74.9%
Washington Headquarters	21.36%	78.64%	21.6%	78.4%
Technical Center	14.97%	85.03%	15.0%	85.0%
Grand Total	17.00%	83.00%	17.2%	82.8%

Source: AHP-200; 202-267-2830

Data pulled from 2017 and 2018 Pay Period: 3

Full-Time, Permanent Employees Only

As of February 23, 2018

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

Line of Business	2016		2017	
	Female	Male	Female	Male
Air Traffic Organization (ATO)	19.16%	80.84%	19.2%	80.8%
Airports (ARP)	38.48%	61.52%	38.8%	61.2%
Aviation Safety (AVS)	25.84%	74.16%	25.7%	74.3%
Commercial Space Transportation (AST)	32.63%	67.37%	31.6%	68.4%
Security & Hazardous Materials Safety (ASH)	39.92%	60.08%	39.6%	60.4%
Staff Offices	44.46%	55.54%	44.5%	55.5%
Grand Total	23.78%	76.22%	23.8%	76.2%

Line of Business	Female	Male	Female	Male
Aeronautical Center	34.14%	65.86%	34.2%	65.8%
Alaskan	19.19%	80.81%	19.4%	80.6%
Central	20.44%	79.56%	20.2%	79.8%
Eastern	17.94%	82.06%	18.0%	82.0%
Great Lakes	17.08%	82.92%	17.1%	82.9%
New England	21.10%	78.90%	21.1%	78.9%
Northwest Mountain	23.02%	76.98%	22.9%	77.1%
Southern	19.77%	80.23%	19.9%	80.1%
Southwest	19.60%	80.40%	19.4%	80.6%
Western-Pacific	20.28%	79.72%	20.2%	79.8%
Washington Headquarters	34.91%	65.09%	34.9%	65.1%
Technical Center	29.12%	70.88%	29.2%	70.8%
Grand Total	23.78%	76.22%	23.8%	76.2%

Source: AHP-200; 202-267-2830

Data pulled from 2017 and 2018 Pay Period: 3

Full-Time, Permanent Employees Only;

As of February 23, 2018

Labor Relations Bargaining Units Labor Agreements Employees Represented

	Bargaining Units	Labor Agreements	Employees Represented
Unions	33	15	34,912
AFGE	4	3	1,547
AFSCME (HQ)	1	1	2,342
LIUNA	1	1	165
NAGE	2	2	173
NATCA	15	3	19,173
NFFE	3	1	607
PAACE	2	2	311
PASS	5	2	10,594
Unrepresented			892
Nonbargaining			9,130
		Total employees:	44,934

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 February 3, 2018

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)

RAPCON (Radar Approach Control)

CCF (Combined Control Facility)

**CERAP (Center Radar Approach Control)

Recently Published Rulemaking Documents

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