

Appendix C: Forecast Tables

TABLE 1
U.S. SHORT-TERM ECONOMIC FORECASTS

ECONOMIC VARIABLE	FISCAL YEAR 2024				FISCAL YEAR 2025				FISCAL YEAR 2026			
	1ST. QTR.	2ND. QTR.	3RD QTR.	4TH. QTR.	1ST. QTR.	2ND. QTR.	3RD QTR.	4TH. QTR.	1ST. QTR.	2ND. QTR.	3RD QTR.	4TH. QTR.
Real Personal Consumption Expenditure per Capita												
(2017 \$)	46,447	46,551	46,767	47,080	47,312	47,528	47,683	47,818	47,948	48,081	48,281	48,467
Year over year change	1.9%	1.1%	1.6%	2.0%	1.9%	2.1%	2.0%	1.6%	1.3%	1.2%	1.3%	1.4%
Refiners' Acquisition Cost - Average												
(Dollars per barrel)	79.55	76.38	81.81	76.79	71.04	68.71	67.31	66.27	63.75	61.28	58.83	60.74
Year over year change	-4.2%	2.5%	10.3%	-6.9%	-10.7%	-10.0%	-17.7%	-13.7%	-10.3%	-10.8%	-12.6%	-8.3%
Consumer Price Index												
(1982-84 = 1)	3.081	3.110	3.132	3.141	3.164	3.179	3.214	3.242	3.269	3.302	3.324	3.346
Year over year change	3.2%	3.2%	3.2%	2.6%	2.7%	2.2%	2.6%	3.2%	3.3%	3.9%	3.4%	3.2%
Source: S&P Global												

TABLE 2

U.S. LONG-TERM ECONOMIC FORECASTS

FISCAL YEAR	REAL GROSS DOMESTIC PRODUCT (Billions 2017 \$)	REAL PERSONAL CONSUMPTION EXPENDITURE PER CAPITA (2017 \$)	CONSUMER PRICE INDEX (1982-84=1.00)	REFINERS' ACQUISITION COST AVERAGE (Dollars per barrel)
<u>Historical</u>				
2010	16,675	36,370	2.17	74.61
2019	20,546	41,958	2.54	59.77
2020	20,321	41,086	2.58	43.15
2021	21,198	43,693	2.67	58.91
2022	21,963	45,424	2.88	93.50
2023	22,493	45,953	3.02	78.56
2024E	23,156	46,712	3.12	78.63
<u>Forecast</u>				
2025	23,634	47,585	3.20	68.33
2030	25,790	52,008	3.61	74.58
2035	28,072	57,140	4.03	89.41
2040	30,454	62,308	4.49	93.85
2045	32,930	67,629	5.00	98.86
<u>Avg Annual Growth</u>				
2010-24	2.4%	1.8%	2.6%	0.4%
2024-25	2.1%	1.9%	2.7%	-13.1%
2025-35	1.7%	1.8%	2.3%	2.7%
2025-45	1.7%	1.8%	2.3%	1.9%
Source: S&P Global				

TABLE 3
INTERNATIONAL GDP FORECASTS BY TRAVEL REGION

CALENDAR YEAR	GROSS DOMESTIC PRODUCT (In Billions of 2019 U.S. Dollars)						
	CANADA	MIDDLE EAST	AFRICA / EUROPE /	CARIBBEAN / LATIN AMERICA /	AUSTRALIA / NEW ZEALAND	CHINA / OTHER ASIA / JAPAN / PACIFIC BASIN /	WORLD
<u>Historical</u>							
2010	1,439	21,721		4,643	19,950		67,172
2019	1,744	26,007		5,413	30,737		87,749
2020	1,656	24,611		5,052	30,470		85,110
2021	1,754	26,169		5,413	32,503		90,562
2022	1,828	27,218		5,627	33,555		93,462
2023	1,856	27,483		5,758	34,995		96,082
2024E	1,879	27,819		5,879	36,375		98,687
<u>Forecast</u>							
2025	1,907	28,274		6,004	37,731		101,188
2030	2,069	31,221		6,894	45,431		115,521
2035	2,247	34,332		7,963	54,082		131,277
2040	2,456	37,584		9,168	63,746		148,459
2045	2,679	40,996		10,529	74,359		167,064
<u>Avg Annual Growth</u>							
2010-24	1.9%	1.8%		1.7%	4.4%		2.8%
2024-25	1.5%	1.6%		2.1%	3.7%		2.5%
2025-35	1.7%	2.0%		2.9%	3.7%		2.6%
2025-45	1.7%	1.9%		2.8%	3.5%		2.5%
Source: S&P Global, Comparative World Overview Tables (Interim Forecast, Monthly)							

TABLE 4
INTERNATIONAL GDP FORECASTS – SELECTED AREAS/COUNTRIES

CALENDAR YEAR	GROSS DOMESTIC PRODUCT (In Billions of 2019 U.S. Dollars)			
	NORTH AMERICA (USMCA)	EUROZONE	UNITED KINGDOM	CHINA
<u>Historical</u>				
2010	19,986	12,033	2,398	4,731
2019	24,588	13,595	2,851	5,117
2020	23,923	12,752	2,557	4,902
2021	25,372	13,552	2,777	5,038
2022	26,054	14,039	2,911	5,084
2023	26,787	14,109	2,921	5,159
2024E	27,471	14,212	2,945	5,153
<u>Forecast</u>				
2025	27,973	14,337	2,974	5,203
2030	30,548	15,331	3,168	5,417
2035	33,317	16,356	3,363	5,626
2040	36,269	17,349	3,569	5,828
2045	39,395	18,352	3,781	5,986
<u>Avg Annual Growth</u>				
2010-24	2.3%	1.2%	1.5%	0.6%
2024-25	1.8%	0.9%	1.0%	1.0%
2025-35	1.8%	1.3%	1.2%	0.8%
2025-45	1.7%	1.2%	1.2%	0.7%
Source: S&P Global, Comparative World Overview Tables (Interim Forecast, Monthly)				

TABLE 5
U.S. COMMERCIAL AIR CARRIERS¹
TOTAL SCHEDULED U.S. PASSENGER TRAFFIC

FISCAL YEAR	REVENUE PASSENGER ENPLANEMENTS (Millions)			REVENUE PASSENGER MILES (Billions)		
	DOMESTIC	INTERNATIONAL	TOTAL	DOMESTIC	INTERNATIONAL	TOTAL
<u>Historical</u>						
2010	635	77	712	555	231	786
2019	813	104	917	752	292	1,044
2020	465	49	513	423	129	551
2021	508	49	557	476	92	567
2022	739	91	830	696	213	909
2023	811	111	922	763	290	1,053
2024E	858	128	987	805	343	1,148
<u>Forecast</u>						
2025	877	133	1,010	833	359	1,192
2030	991	152	1,143	956	409	1,365
2035	1,131	179	1,310	1,105	473	1,578
2040	1,272	210	1,482	1,259	545	1,804
2045	1,422	245	1,667	1,426	625	2,051
<u>Avg Annual Growth</u>						
2010-24	2.2%	3.7%	2.4%	2.7%	2.9%	2.7%
2024-25	2.1%	3.9%	2.3%	3.5%	4.5%	3.8%
2025-35	2.6%	3.0%	2.6%	2.9%	2.8%	2.8%
2025-45	2.4%	3.1%	2.5%	2.7%	2.8%	2.8%

Source: Forms 41 and 298-C, U.S. Department of Transportation.

¹Sum of U.S. Mainline and Regional Air Carriers.

TABLE 6

U.S. COMMERCIAL AIR CARRIERS¹

SCHEDULED PASSENGER CAPACITY, TRAFFIC, AND LOAD FACTORS

FISCAL YEAR	DOMESTIC				INTERNATIONAL				SYSTEM	
	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	ASMs (BIL)	% LOAD FACTOR
<u>Historical</u>										
2010	679	555	81.7	281	231	82.1	961	786		81.8
2019	883	752	85.2	352	292	82.9	1,235	1,044		84.5
2020	618	423	68.3	178	129	72.3	796	551		69.2
2021	658	476	72.3	171	92	53.5	829	567		68.5
2022	834	696	83.4	278	213	76.6	1,112	909		81.7
2023	907	763	84.1	348	290	83.4	1,255	1,053		83.9
2024E	961	805	83.7	418	343	82.1	1,380	1,148		83.2
<u>Forecast</u>										
2025	988	833	84.3	435	359	82.5	1,423	1,192		83.7
2030	1,113	956	85.9	491	409	83.3	1,604	1,365		85.1
2035	1,277	1,105	86.6	568	473	83.4	1,844	1,578		85.6
2040	1,451	1,259	86.8	654	545	83.4	2,105	1,804		85.7
2045	1,642	1,426	86.9	749	625	83.4	2,391	2,051		85.8
<u>Avg Annual Growth</u>										
2010-24	2.5%	2.7%		2.9%	2.9%		2.6%	2.7%		
2024-25	2.8%	3.5%		4.1%	4.5%		3.2%	3.8%		
2025-35	2.6%	2.9%		2.7%	2.8%		2.6%	2.8%		
2025-45	2.6%	2.7%		2.7%	2.8%		2.6%	2.8%		

Source: Forms 41 and 298-C, U.S. Department of Transportation.

¹Sum of U.S. Mainline and Regional Air Carriers.

TABLE 7
U.S. COMMERCIAL AIR CARRIERS¹
TOTAL SCHEDULED U.S. INTERNATIONAL PASSENGER TRAFFIC

FISCAL YEAR	REVENUE PASSENGER ENPLANEMENTS					REVENUE PASSENGER MILES				
	LATIN AMERICA			TOTAL		LATIN AMERICA			TOTAL	
	ATLANTIC AMERICA (Mil)	PACIFIC (Mil)	INTERNATIONAL (Mil)	ATLANTIC AMERICA (Mil)	PACIFIC (Mil)	ATLANTIC AMERICA (Bil)	PACIFIC (Bil)	INTERNATIONAL (Bil)	ATLANTIC AMERICA (Bil)	PACIFIC (Bil)
<u>Historical</u>										
2010	25	40	13	77	109	63	59	231		
2019	28	63	13	104	121	96	75	292		
2020	11	32	6	49	48	49	31	129		
2021	6	43	1	49	27	60	4	92		
2022	23	65	3	91	100	97	15	213		
2023	32	72	7	111	141	106	43	290		
2024E	36	81	11	128	159	121	63	343		
<u>Forecast</u>										
2025	37	84	12	133	162	127	70	359		
2030	40	98	14	152	179	148	82	409		
2035	44	119	16	179	198	183	93	473		
2040	48	144	18	210	218	222	105	545		
2045	53	172	20	245	239	266	119	625		
<u>Avg Annual Growth</u>										
2010-24	2.9%	5.2%	-1.2%	3.7%	2.7%	4.8%	0.5%	2.9%		
2024-25	1.6%	3.9%	11.2%	3.9%	2.1%	4.2%	11.4%	4.5%		
2025-35	1.8%	3.5%	2.7%	3.0%	2.0%	3.7%	2.8%	2.8%		
2025-45	1.8%	3.6%	2.6%	3.1%	2.0%	3.8%	2.7%	2.8%		

Source: Forms 41 and 298-C, U.S. Department of Transportation.

¹Sum of U.S. Mainline and Regional Air Carriers.

TABLE 8
U.S. AND FOREIGN FLAG CARRIERS
TOTAL PASSENGER TRAFFIC TO/FROM THE UNITED STATES

TOTAL PASSENGERS BY WORLD TRAVEL AREA (Millions)						
CALENDAR YEAR	ATLANTIC	LATIN AMERICA	PACIFIC	U.S./CANADA		TOTAL
<u>Historical</u>						
2010	56	53	27	22		158
2019	89	89	44	32		253
2020	17	33	9	7		67
2021	24	66	4	5		99
2022	71	88	15	21		195
2023	87	100	29	28		244
2024E	93	107	35	32		267
<u>Forecast</u>						
2025	98	112	38	33		281
2030	115	133	47	37		332
2035	131	156	55	42		384
2040	148	182	63	47		441
2045	167	210	72	53		502
<u>Avg Annual Growth</u>						
2010-24	3.7%	5.2%	1.8%	2.7%		3.8%
2024-25	4.8%	4.6%	9.3%	3.9%		5.2%
2025-35	3.0%	3.4%	3.7%	2.5%		3.2%
2025-45	2.7%	3.2%	3.3%	2.4%		3.0%
Source: US Customs & Border Protection data processed and released by Department of Commerce; data also received from Transport Canada.						

TABLE 9
U.S. COMMERCIAL AIR CARRIERS' FORECAST ASSUMPTIONS¹

SEATS PER AIRCRAFT MILE AND PASSENGER TRIP LENGTH

FISCAL YEAR	AVERAGE SEATS PER AIRCRAFT MILE		AVERAGE PASSENGER TRIP LENGTH	
	DOMESTIC (Seats/Mile)	INTERNATIONAL (Seats/Mile)	DOMESTIC (Miles)	INTERNATIONAL (Miles)
<u>Historical</u>				
2010	121.9	216.4	874.9	2,988.0
2019	141.1	221.3	924.9	2,813.9
2020	141.1	217.1	909.2	2,647.9
2021	144.9	198.6	937.3	1,859.6
2022	149.0	215.4	941.2	2,347.5
2023	154.6	224.9	940.4	2,610.0
2024E	154.9	226.7	937.6	2,673.1
<u>Forecast</u>				
2025	155.2	227.4	950.0	2,690.0
2030	157.9	229.0	964.4	2,693.1
2035	161.1	230.0	977.0	2,642.2
2040	164.7	231.1	990.0	2,593.5
2045	168.3	232.4	1,003.0	2,552.3
<u>Avg Annual Growth</u>				
2010-24	1.7%	0.3%	0.5%	-0.8%
2024-25	0.2%	0.3%	1.3%	0.6%
2025-35	0.4%	0.1%	0.3%	-0.2%
2025-45	0.4%	0.1%	0.3%	-0.3%
Source: Forms 41 and 298-C, U.S. Department of Transportation.				
¹ Sum of U.S. Mainline and Regional Air Carriers.				

TABLE 10

U. S. MAINLINE AIR CARRIERS
SCHEDULED PASSENGER TRAFFIC

FISCAL YEAR	REVENUE PASSENGER ENPLANEMENTS (Millions)			REVENUE PASSENGER MILES (Billions)		
	DOMESTIC	INTERNATIONAL	SYSTEM	DOMESTIC	INTERNATIONAL	SYSTEM
<u>Historical</u>						
2010	473	75	548	480	230	710
2019	654	100	754	674	290	963
2020	370	47	417	376	127	503
2021	402	47	449	422	90	512
2022	613	89	701	634	211	845
2023	696	109	805	710	289	998
2024E	731	126	857	747	342	1,088
<u>Forecast</u>						
2025	747	131	878	772	357	1,129
2030	844	149	993	886	407	1,293
2035	964	176	1,140	1,024	471	1,495
2040	1,084	207	1,290	1,166	543	1,708
2045	1,212	241	1,453	1,320	622	1,942
<u>Avg Annual Growth</u>						
2010-24	3.2%	3.8%	3.3%	3.2%	2.9%	3.1%
2024-25	2.1%	3.9%	2.4%	3.4%	4.5%	3.8%
2025-35	2.6%	3.0%	2.6%	2.9%	2.8%	2.8%
2025-45	2.5%	3.1%	2.6%	2.7%	2.8%	2.7%
Source: Form 41, U.S. Department of Transportation.						

TABLE 11

U.S. MAINLINE AIR CARRIERS

SCHEDULED PASSENGER CAPACITY, TRAFFIC, AND LOAD FACTORS

FISCAL YEAR	DOMESTIC			INTERNATIONAL			SYSTEM		
	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR
Historical									
2010	581	480	82.7	279	230	82.2	860	710	82.5
2019	785	674	85.8	349	290	83.0	1,134	963	85.0
2020	547	376	68.7	176	127	72.4	723	503	69.6
2021	582	422	72.6	169	90	53.4	751	512	68.2
2022	756	634	83.9	276	211	76.6	1,032	845	81.9
2023	842	710	84.3	346	289	83.4	1,188	998	84.1
2024E	890	747	83.9	416	342	82.1	1,306	1,088	83.3
Forecast									
2025	914	772	84.5	433	357	82.5	1,347	1,129	83.8
2030	1,028	886	86.2	489	407	83.3	1,516	1,293	85.3
2035	1,179	1,024	86.9	565	471	83.4	1,744	1,495	85.7
2040	1,339	1,166	87.1	651	543	83.4	1,990	1,708	85.9
2045	1,515	1,320	87.1	745	622	83.5	2,260	1,942	85.9
Avg Annual Growth									
2010-24	3.1%	3.2%		2.9%	2.9%		3.0%	3.1%	
2024-25	2.7%	3.4%		4.1%	4.5%		3.1%	3.8%	
2025-35	2.6%	2.9%		2.7%	2.8%		2.6%	2.8%	
2025-45	2.6%	2.7%		2.7%	2.8%		2.6%	2.7%	
Source: Form 41, U.S. Department of Transportation.									

TABLE 12
U.S. MAINLINE AIR CARRIERS
SCHEDULED INTERNATIONAL PASSENGER ENPLANEMENTS

FISCAL YEAR	ATLANTIC	LATIN AMERICA	PACIFIC	TOTAL
<u>Historical</u>				
2010	24.5	37.2	12.9	74.6
2019	27.9	59.2	13.2	100.2
2020	10.8	30.3	5.6	46.7
2021	5.7	40.9	0.8	47.4
2022	22.6	63.3	2.6	88.5
2023	31.8	69.7	7.4	109.0
2024E	36.3	78.9	10.9	126.1
<u>Forecast</u>				
2025	36.9	82.0	12.1	131.0
2030	40.2	95.0	14.0	149.1
2035	44.1	116.0	15.9	176.0
2040	48.4	140.4	18.0	206.7
2045	52.9	167.7	20.3	240.9
<u>Avg Annual Growth</u>				
2010-24	2.9%	5.5%	-1.2%	3.8%
2024-25	1.6%	4.0%	11.2%	3.9%
2025-35	1.8%	3.5%	2.7%	3.0%
2025-45	1.8%	3.6%	2.6%	3.1%
Source: Form 41, U.S. Department of Transportation.				

TABLE 13
U.S. MAINLINE AIR CARRIERS
SCHEDULED PASSENGER CAPACITY, TRAFFIC, AND LOAD FACTORS
BY INTERNATIONAL TRAVEL REGIONS

FISCAL YEAR	ATLANTIC			LATIN AMERICA			PACIFIC			INTERNATIONAL		
	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR	ASMs (BIL)	RPMs (BIL)	% LOAD FACTOR
<u>Historical</u>												
2010	131	109	82.9	78	62	79.2	70	59	84.1	279	230	82.2
2019	146	121	82.9	112	94	83.5	91	75	82.6	349	290	83.0
2020	69	48	69.3	63	48	76.2	44	31	71.8	176	127	72.4
2021	57	27	47.8	92	59	63.5	20	4	22.4	169	90	53.4
2022	128	100	78.1	121	96	79.6	27	15	56.3	276	211	76.6
2023	171	141	82.6	122	104	85.8	54	43	80.5	346	289	83.4
2024E	193	159	82.5	141	120	84.8	83	63	76.6	416	342	82.1
<u>Forecast</u>												
2025	196	162	82.7	147	125	84.8	90	70	78.1	433	357	82.5
2030	216	179	82.7	173	146	84.8	100	82	82.1	489	407	83.3
2035	239	198	82.7	213	180	84.8	113	93	82.1	565	471	83.4
2040	264	218	82.7	259	219	84.8	128	105	82.1	651	543	83.4
2045	290	239	82.7	311	263	84.8	145	119	82.1	745	622	83.5
<u>Avg Annual Growth</u>												
2010-24	2.8%	2.7%		4.3%	4.9%		1.1%	0.5%		2.9%	2.9%	
2024-25	1.7%	2.1%		4.2%	4.2%		9.2%	11.4%		4.1%	4.5%	
2025-35	2.0%	2.0%		3.7%	3.7%		2.3%	2.8%		2.7%	2.8%	
2025-45	2.0%	2.0%		3.8%	3.8%		2.4%	2.7%		2.7%	2.8%	
Source: Form 41, U.S. Department of Transportation.												

TABLE 14

U.S. MAINLINE AIR CARRIER FORECAST ASSUMPTIONS

SEATS PER AIRCRAFT MILE

INTERNATIONAL						
FISCAL YEAR	DOMESTIC (Seats/Mile)	ATLANTIC (Seats/Mile)	LATIN AMERICA (Seats/Mile)	PACIFIC (Seats/Mile)	TOTAL (Seats/Mile)	SYSTEM (Seats/Mile)
Historical						
2010	152.0	231.7	171.7	287.2	220.9	169.2
2019	166.0	251.6	177.9	269.9	225.6	180.7
2020	166.7	256.2	178.5	256.5	221.8	177.4
2021	171.7	255.4	178.8	205.8	202.4	177.8
2022	171.0	260.0	180.4	265.8	218.3	181.5
2023	172.2	256.3	183.1	278.8	227.2	185.2
2024E	172.7	254.1	184.6	279.6	229.0	187.4
Forecast						
2025	173.2	254.6	185.1	280.4	229.7	188.1
2030	175.8	257.1	187.6	284.1	231.3	190.5
2035	178.9	259.6	190.1	287.9	232.2	193.3
2040	182.4	262.1	192.6	291.6	233.3	196.4
2045	186.0	264.6	195.1	295.4	234.5	199.6
Avg Annual Growth						
2010-24	0.9%	0.7%	0.5%	-0.2%	0.3%	0.7%
2024-25	0.3%	0.2%	0.3%	0.3%	0.3%	0.4%
2025-35	0.3%	0.2%	0.3%	0.3%	0.1%	0.3%
2025-45	0.4%	0.2%	0.3%	0.3%	0.1%	0.3%
Source: Form 41, U.S. Department of Transportation.						

TABLE 15
U.S. MAINLINE AIR CARRIER FORECAST ASSUMPTIONS
AVERAGE PASSENGER TRIP LENGTH

		INTERNATIONAL					
	DOMESTIC	ATLANTIC	LATIN AMERICA	PACIFIC	TOTAL	SYSTEM	
FISCAL YEAR	(Miles)	(Miles)	(Miles)	(Miles)	(Miles)	(Miles)	
Historical							
2010	1,015	4,433	1,660	4,587	3,077	1,296	
2019	1,030	4,330	1,582	5,709	2,890	1,278	
2020	1,015	4,442	1,577	5,634	2,725	1,207	
2021	1,050	4,756	1,434	5,809	1,906	1,140	
2022	1,035	4,435	1,517	5,835	2,388	1,206	
2023	1,020	4,428	1,498	5,841	2,649	1,241	
2024E	1,021	4,370	1,520	5,800	2,711	1,270	
Forecast							
2025	1,034	4,388	1,523	5,810	2,727	1,287	
2030	1,049	4,450	1,543	5,846	2,730	1,301	
2035	1,062	4,485	1,555	5,843	2,676	1,311	
2040	1,076	4,508	1,563	5,849	2,625	1,324	
2045	1,089	4,530	1,571	5,854	2,582	1,337	
Avg Annual Growth							
2010-24	0.0%	-0.1%	-0.6%	1.7%	-0.9%	-0.1%	
2024-25	1.3%	0.4%	0.2%	0.2%	0.6%	1.3%	
2025-35	0.3%	0.2%	0.2%	0.1%	-0.2%	0.2%	
2025-45	0.3%	0.2%	0.2%	0.0%	-0.3%	0.2%	
Source: Form 41, U.S. Department of Transportation.							

TABLE 16
U.S. MAINLINE AIR CARRIER FORECAST ASSUMPTIONS
PASSENGER YIELDS

FISCAL YEAR	REVENUE PER PASSENGER MILE					
	DOMESTIC			INTERNATIONAL		
	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)
<u>Historical</u>						
2010	12.62	17.55	12.84	17.85	12.69	17.64
2019	14.12	16.79	13.47	16.00	13.92	16.55
2020	13.40	15.70	13.48	15.79	13.42	15.72
2021	11.73	13.31	12.84	14.57	11.93	13.53
2022	15.58	16.37	15.35	16.14	15.52	16.31
2023	16.68	17.19	16.93	17.45	16.75	17.27
2024E	16.19	16.19	16.48	16.48	16.28	16.28
<u>Forecast</u>						
2025	17.48	17.02	16.93	16.48	17.31	16.85
2030	19.13	16.51	18.64	16.09	18.98	16.38
2035	20.88	16.13	20.18	15.58	20.66	15.96
2040	22.48	15.61	21.64	15.03	22.21	15.43
2045	24.26	15.11	23.29	14.50	23.95	14.91
<u>Avg Annual Growth</u>						
2010-24	1.8%	-0.6%	1.8%	-0.6%	1.8%	-0.6%
2024-25	8.0%	5.2%	2.7%	0.0%	6.3%	3.5%
2025-35	1.8%	-0.5%	1.8%	-0.6%	1.8%	-0.5%
2025-45	1.7%	-0.6%	1.6%	-0.6%	1.6%	-0.6%
Source: Form 41, U.S. Department of Transportation.						

TABLE 17

U.S. MAINLINE AIR CARRIER FORECAST ASSUMPTIONS

INTERNATIONAL PASSENGER YIELDS BY REGION

FISCAL YEAR	REVENUE PER PASSENGER MILE							
	ATLANTIC		LATIN AMERICA		PACIFIC		TOTAL INTERNATIONAL	
	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)
<u>Historical</u>								
2010	12.73	18.25	13.33	19.11	12.50	17.92	12.84	18.40
2019	14.04	17.20	14.20	17.39	11.63	14.25	13.47	16.49
2020	13.49	16.29	14.60	17.63	11.75	14.19	13.48	16.27
2021	11.82	13.82	12.59	14.71	22.48	26.27	12.84	15.01
2022	15.68	16.98	14.64	15.85	17.79	19.27	15.35	16.63
2023	17.09	17.62	16.75	17.26	16.85	17.37	16.93	17.45
2024E	17.30	17.30	15.69	15.69	15.92	15.92	16.48	16.48
<u>Forecast</u>								
2025	17.68	17.21	16.32	15.88	16.28	15.84	16.93	16.48
2030	19.42	16.78	18.07	15.61	17.98	15.54	18.65	16.11
2035	21.16	16.37	19.38	14.99	19.63	15.19	20.18	15.61
2040	22.88	15.96	20.59	14.36	21.27	14.84	21.65	15.10
2045	24.83	15.57	21.95	13.76	23.13	14.50	23.29	14.60
<u>Avg Annual Growth</u>								
2010-24	2.2%	-0.4%	1.2%	-1.4%	1.7%	-0.8%	1.8%	-0.8%
2024-25	2.2%	-0.5%	4.0%	1.2%	2.2%	-0.5%	2.7%	0.0%
2025-35	1.8%	-0.5%	1.7%	-0.6%	1.9%	-0.4%	1.8%	-0.5%
2025-45	1.7%	-0.5%	1.5%	-0.7%	1.8%	-0.4%	1.6%	-0.6%
Source: Form 41, U.S. Department of Transportation.								

TABLE 18

U.S. MAINLINE AIR CARRIER FORECAST ASSUMPTIONS

JET FUEL PRICES

FISCAL YEAR	DOMESTIC		INTERNATIONAL		SYSTEM	
	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)	CURRENT \$ (Cents)	FY 2024 \$ (Cents)
<u>Historical</u>						
2010	219.16	314.09	220.12	315.48	219.49	314.57
2019	205.67	251.95	207.82	254.58	206.42	252.86
2020	166.65	201.23	167.21	201.90	166.84	201.45
2021	177.23	207.17	171.82	200.84	175.49	205.13
2022	309.28	334.98	315.20	341.40	311.23	337.10
2023	295.08	304.17	290.73	299.68	293.57	302.61
2024E	271.52	271.52	273.49	273.49	272.23	272.23
<u>Forecast</u>						
2025	236.02	229.85	237.73	231.51	236.63	230.44
2030	241.36	208.31	243.11	209.82	241.99	208.85
2035	294.50	227.46	296.64	229.10	295.27	228.05
2040	309.74	215.12	311.99	216.68	310.55	215.68
2045	326.39	203.26	328.75	204.73	327.23	203.79
<u>Avg Annual Growth</u>						
2010-24	1.5%	-1.0%	1.6%	-1.0%	1.5%	-1.0%
2024-25	-13.1%	-15.3%	-13.1%	-15.3%	-13.1%	-15.3%
2025-35	2.2%	-0.1%	2.2%	-0.1%	2.2%	-0.1%
2025-45	1.6%	-0.6%	1.6%	-0.6%	1.6%	-0.6%
Source: Form 41, U.S. Department of Transportation						

TABLE 19
U.S. COMMERCIAL AIR CARRIERS
AIR CARGO REVENUE TON MILES^{1, 2, 3}

FISCAL YEAR	ALL-CARGO CARRIER RTMS (Millions)		PASSENGER CARRIER RTMS (Millions)		TOTAL RTMS (Millions)	
	DOMESTIC	INT'L.	DOMESTIC	INT'L.	DOMESTIC	INT'L.
<u>Historical</u>						
2010	11,306	15,971	27,276	1,495	6,246	7,742
2019	14,737	19,668	34,405	1,468	6,984	8,452
2020	16,665	21,964	38,630	1,136	4,130	5,266
2021	18,555	26,580	45,135	1,318	4,836	6,154
2022	18,376	26,090	44,466	1,447	5,625	7,072
2023	16,358	24,184	40,542	1,219	5,522	6,741
2024E	16,901	23,285	40,185	1,221	6,580	7,800
<u>Forecast</u>						
2025	17,376	24,247	41,622	1,243	7,120	8,363
2030	19,596	29,959	49,555	1,334	8,181	9,515
2035	21,763	35,848	57,611	1,408	9,074	10,482
2040	23,937	42,301	66,237	1,467	9,890	11,357
2045	26,155	49,470	75,625	1,515	10,639	12,155
<u>Avg Annual Growth</u>						
2010-24	2.9%	2.7%	2.8%	-1.4%	0.4%	0.1%
2024-25	2.8%	4.1%	3.6%	1.8%	8.2%	7.2%
2025-35	2.3%	4.0%	3.3%	1.3%	2.5%	2.3%
2025-45	2.1%	3.6%	3.0%	1.0%	2.0%	1.9%
Source: Form 41, U.S. Department of Transportation						

¹Includes freight/express and mail revenue ton miles on mainline air carriers and regionals/commuters.

²Domestic figures from 2000 through 2002 exclude Airborne Express, Inc.; international figures for 2003 and beyond include new reporting of contract service by U.S. carriers for foreign flag carriers.

³Domestic figures from 2003 and beyond include Airborne Express, Inc.

TABLE 20
U.S. COMMERCIAL AIR CARRIERS
INTERNATIONAL AIR CARGO REVENUE TON MILES BY REGION^{1, 2}

FISCAL YEAR	ATLANTIC (MILLIONS)	LATIN AMERICA (MILLIONS)	PACIFIC (MILLIONS)	OTHER INTERNATIONAL (MILLIONS)	TOTAL (MILLIONS)
<u>Historical</u>					
2010	6,786	1,990	7,897	5,545	22,217
2019	7,426	1,661	10,429	7,135	26,652
2020	6,669	1,296	10,198	7,931	26,095
2021	7,603	1,608	11,555	10,650	31,416
2022	8,763	1,666	10,905	10,382	31,715
2023	8,352	1,418	12,015	7,921	29,706
2024E	8,436	1,696	11,001	8,732	29,865
<u>Forecast</u>					
2025	8,748	1,717	11,646	9,256	31,367
2030	10,182	1,911	14,611	11,437	38,140
2035	11,567	2,107	17,346	13,902	44,922
2040	13,016	2,273	20,110	16,791	52,191
2045	14,549	2,417	23,011	20,133	60,110
<u>Avg Annual Growth</u>					
2010-24	1.6%	-1.1%	2.4%	3.3%	2.1%
2024-25	3.7%	1.2%	5.9%	6.0%	5.0%
2025-35	2.8%	2.1%	4.1%	4.2%	3.7%
2025-45	2.6%	1.7%	3.5%	4.0%	3.3%
Source: Form 41, U.S. Department of Transportation					

¹Includes freight/express and mail revenue ton miles on mainline air carriers and regionals/commuters.

²Figures for 2003 and beyond include new reporting of contract service by U.S. carriers for foreign flag carriers.

TABLE 21
U.S. MAINLINE AIR CARRIERS
PASSENGER JET AIRCRAFT

CALENDAR YEAR	LARGE NARROWBODY				LARGE WIDEBODY				LARGE		REGIONAL		
	2 ENGINE	3 ENGINE	4 ENGINE	TOTAL	2 ENGINE	3 ENGINE	4 ENGINE	TOTAL	JETS	JETS	JETS	JETS	TOTAL JETS
<u>Historical</u>													
2010	3,120	8	1	3,129	470	9	43	522	3,651	71			3,722
2019	3,775	0	0	3,775	553	0	0	553	4,328	60			4,388
2020	2,860	0	0	2,860	298	0	0	298	3,158	23			3,181
2021	2,828	0	0	2,828	281	0	0	281	3,109	23			3,132
2022	3,429	0	0	3,429	426	0	0	426	3,855	60			3,915
2023	4,210	0	0	4,210	550	0	0	550	4,760	72			4,832
2024E	4,240	0	0	4,240	540	0	0	540	4,780	49			4,829
<u>Forecast</u>													
2025	4,079	0	0	4,079	523	0	0	523	4,602	24			4,626
2030	4,241	0	0	4,241	615	0	0	615	4,856	0			4,856
2035	4,753	0	0	4,753	701	0	0	701	5,454	0			5,454
2040	5,262	0	0	5,262	817	0	0	817	6,079	0			6,079
2045	5,917	0	0	5,917	937	0	0	937	6,854	0			6,854
<u>Avg Annual Growth</u>													
2010-24	2.2%	N.A.	N.A.	2.2%	1.0%	N.A.	N.A.	0.2%	1.9%	-2.6%			1.9%
2024-25	-3.8%	N.A.	N.A.	-3.8%	-3.1%	N.A.	N.A.	-3.1%	-3.7%	N.A.			-4.2%
2025-35	1.5%	N.A.	N.A.	1.5%	3.0%	N.A.	N.A.	3.0%	1.7%	N.A.			1.7%
2025-45	1.9%	N.A.	N.A.	1.9%	3.0%	N.A.	N.A.	3.0%	2.0%	N.A.			2.0%
Note: N.A. - Not Applicable													

TABLE 22

U.S. MAINLINE AIR CARRIERS
CARGO JET AIRCRAFT

CALENDAR YEAR	LARGE NARROWBODY				LARGE WIDEBODY			
	2 ENGINE	3 ENGINE	4 ENGINE	TOTAL	2 ENGINE	3 ENGINE	4 ENGINE	TOTAL
<u>Historical</u>								
2010	153	104	31	288	265	200	97	562
2019	216	10	2	228	419	120	112	651
2020	200	10	0	210	414	115	109	638
2021	213	8	0	221	434	111	110	655
2022	219	7	0	226	469	118	122	709
2023	225	9	0	234	494	107	133	734
2024E	182	2	0	184	488	65	124	677
<u>Forecast</u>								
2025	189	2	0	191	519	57	127	703
2030	255	0	0	255	653	33	140	826
2035	264	0	0	264	756	33	137	926
2040	256	0	0	256	900	13	118	1,031
2045	265	0	0	265	1,039	2	93	1,134
<u>Avg Annual Growth</u>								
2010-24	1.2%	-24.6%	N.A.	-3.1%	4.5%	-7.7%	1.8%	1.3%
2024-25	3.8%	0.0%	N.A.	3.8%	6.4%	-12.3%	2.4%	3.8%
2025-35	3.4%	N.A.	N.A.	3.3%	3.8%	-5.3%	0.8%	2.8%
2025-45	1.7%	N.A.	N.A.	1.7%	3.5%	-15.4%	-1.5%	2.4%
Note: N.A. - Not Applicable								

TABLE 23
TOTAL JET FUEL AND AVIATION GASOLINE FUEL CONSUMPTION
U.S. CIVIL AVIATION AIRCRAFT
(Millions of Gallons)

FISCAL YEAR	JET FUEL			AVIATION GASOLINE		
	U.S. AIR CARRIERS ^{1, 2}		GENERAL	AVIATION GASOLINE		TOTAL FUEL
	DOMESTIC	INT'L.	AVIATION	AIR CARRIER	GENERAL AVIATION	CONSUMED
<u>Historical</u>						
2010	12,036	6,315	18,351	1,435	19,786	223
2019	14,648	7,043	21,691	1,510	23,202	202
2020	10,538	4,732	15,270	1,342	16,612	206
2021	11,587	4,824	16,410	1,909	18,320	231
2022	14,170	6,116	20,287	2,048	22,334	235
2023	14,488	6,931	21,419	1,776	23,195	258
2024E	14,855	7,590	22,446	1,840	24,286	251
<u>Forecast</u>						
2025	15,464	7,821	23,285	1,904	25,190	244
2030	16,572	8,391	24,963	2,178	27,141	227
2035	18,090	9,231	27,322	2,443	29,765	223
2040	19,563	10,115	29,679	2,695	32,374	223
2045	21,069	11,022	32,091	2,933	35,024	227
<u>Avg Annual Growth</u>						
2010-24	1.5%	1.3%	1.4%	1.8%	1.5%	0.9%
2024-25	4.1%	3.0%	3.7%	3.5%	3.7%	-2.7%
2025-35	1.6%	1.7%	1.6%	2.5%	1.7%	-0.9%
2025-45	1.6%	1.7%	1.6%	2.2%	1.7%	-0.4%

Source: Air carrier jet fuel, Form 41, U.S. Department of Transportation; all others, FAA APO estimates.

¹Includes both passenger (mainline and regional air carrier) and cargo carriers.²Forecast assumes 1.0% annual improvement in available seat miles per gallon for U.S. Commercial Air Carrier

TABLE 24

U.S. REGIONAL CARRIER FORECAST ASSUMPTIONS

FISCAL YEAR	AVERAGE SEATS PER AIRCRAFT MILE		AVERAGE PASSENGER TRIP LENGTH		REVENUE PER PASSENGER MILE**	
	DOMESTIC (Seats/Mile)	INT'L (Seats/Mile)	DOMESTIC (Miles)	INT'L (Miles)	TOTAL (Miles)	2023 \$ (Cents)
<u>Historical</u>						
2010	56.1	53.2	56.1	503	465	15.74
2019	64.1	70.9	64.3	670	496	11.48
2020	64.6	70.7	64.8	675	497	10.96
2021	66.0	72.9	66.1	662	511	9.63
2022	66.3	72.5	66.4	640	490	12.77
2023	66.9	73.4	67.1	630	461	13.62
2024E	67.7	72.2	67.8	652	461	13.00
<u>Forecast</u>						
2025	68.2	72.5	68.3	665	471	14.02
2030	70.7	74.0	70.8	679	481	15.33
2035	73.3	75.5	73.4	692	490	16.73
2040	76.1	77.0	76.1	706	500	18.00
2045	78.9	78.5	78.9	720	510	19.42
<u>Avg Annual Growth</u>						
2010-24	1.3%	2.2%	1.4%	1.9%	-0.1%	-1.4%
2024-25	0.7%	0.4%	0.7%	2.1%	2.1%	7.8%
2025-35	0.7%	0.4%	0.7%	0.4%	0.4%	1.8%
2025-45	0.7%	0.4%	0.7%	0.4%	0.4%	1.6%

Source: Form 41 and 298C, U.S. Department of Transportation.

** Reporting carriers.

TABLE 25
U.S. REGIONAL CARRIERS
SCHEDULED PASSENGER TRAFFIC
(In Millions)

FISCAL YEAR	REVENUE PASSENGERS			REVENUE PASSENGER MILES		
	DOMESTIC	INTERNATIONAL	TOTAL	DOMESTIC	INTERNATIONAL	TOTAL
<u>Historical</u>						
2010	162	3	164	75,028	1,347	76,375
2019	159	4	163	78,358	2,376	80,734
2020	94	2	96	46,667	1,229	47,896
2021	106	2	108	53,699	1,221	54,921
2022	127	2	129	61,839	1,335	63,175
2023	115	2	118	52,787	1,348	54,136
2024E	127	2	130	58,289	1,532	59,820
<u>Forecast</u>						
2025	130	2	132	60,759	1,597	62,356
2030	147	3	149	69,936	1,838	71,774
2035	167	3	170	81,429	2,140	83,568
2040	188	3	192	93,365	2,454	95,818
2045	210	4	214	106,469	2,798	109,267
<u>Avg Annual Growth</u>						
2010-24	-1.7%	-0.9%	-1.7%	-1.8%	0.9%	-1.7%
2024-25	2.1%	2.1%	2.1%	4.2%	4.2%	4.2%
2025-35	2.6%	2.6%	2.6%	3.0%	3.0%	3.0%
2025-45	2.4%	2.4%	2.4%	2.8%	2.8%	2.8%
Source: Form 41 and 298C, U.S. Department of Transportation.						

TABLE 26
U.S. REGIONAL CARRIERS
SCHEDULED PASSENGER CAPACITY, TRAFFIC, AND LOAD FACTORS

YEAR	DOMESTIC			INTERNATIONAL			TOTAL		
	ASMs (MIL)	RPMs (MIL)	% LOAD FACTOR	ASMs (MIL)	RPMs (MIL)	% LOAD FACTOR	ASMs (MIL)	RPMs (MIL)	% LOAD FACTOR
Historical									
2010	98,454	75,028	76.2	1,857	1,347	72.5	100,311	76,375	76.1
2019	98,120	78,358	79.9	3,116	2,376	76.3	101,236	80,734	79.7
2020	70,861	46,667	65.9	1,812	1,229	67.9	72,673	47,896	65.9
2021	75,964	53,699	70.7	1,836	1,221	66.5	77,800	54,921	70.6
2022	77,916	61,839	79.4	1,833	1,335	72.8	79,749	63,175	79.2
2023	65,422	52,787	80.7	1,685	1,348	80.0	67,107	54,136	80.7
2024E	71,343	58,289	81.7	1,943	1,532	78.8	73,286	59,820	81.6
Forecast									
2025	74,187	60,759	81.9	2,020	1,597	79.0	76,207	62,356	81.8
2030	84,852	69,936	82.4	2,311	1,838	79.5	87,163	71,774	82.3
2035	97,831	81,429	83.2	2,664	2,140	80.3	100,495	83,568	83.2
2040	111,811	93,365	83.5	3,045	2,454	80.6	114,856	95,818	83.4
2045	127,319	106,469	83.6	3,467	2,798	80.7	130,786	109,267	83.5
Avg Annual Growth									
2010-24	-2.3%	-1.8%		0.3%	0.9%		-2.2%	-1.7%	
2024-25	4.0%	4.2%		4.0%	4.2%		4.0%	4.2%	
2025-35	2.8%	3.0%		2.8%	3.0%		2.8%	3.0%	
2025-45	2.7%	2.8%		2.7%	2.8%		2.7%	2.8%	
Source: Form 41 and 298C, U.S. Department of Transportation.									

TABLE 27

**U.S. REGIONAL CARRIERS
PASSENGER AIRCRAFT**

AS OF JANUARY 1	REGIONAL AIRCRAFT															
	LESS THAN 9 SEATS					31 TO 40 SEATS					OVER 40 SEATS				TOTAL FLEET	
	SEATS	SEATS	SEATS	SEATS	SEATS	PROP	JET	TOTAL	PROP	JET	TOTAL	NON JET	JET	TOTAL		
<u>Historical</u>																
2010	440	92	82	144	28	172	99	1,728	857	1,756	2,613					
2019	374	72	19	11	0	11	39	1,846	515	1,846	2,361					
2020	276	74	20	11	0	11	40	1,434	421	1,434	1,855					
2021	268	69	16	10	0	10	38	1,406	401	1,406	1,807					
2022	247	59	18	3	3	6	49	1,623	376	1,626	2,002					
2023	245	57	7	3	1	4	24	1,435	336	1,436	1,772					
2024E	240	56	7	3	1	4	21	1,369	327	1,370	1,697					
<u>Forecast</u>																
2025	237	55	7	3	1	4	19	1,406	321	1,407	1,728					
2030	221	52	6	3	0	3	20	1,440	302	1,440	1,742					
2035	203	47	6	3	0	3	22	1,634	282	1,634	1,916					
2040	183	43	5	3	0	3	25	1,862	260	1,862	2,122					
2045	164	38	5	3	0	3	30	2,114	240	2,114	2,354					
<u>Avg Annual Growth</u>																
2010-24	-4.2%	-3.5%	-16.1%	-24.2%	-21.2%	-23.6%	-10.5%	-1.6%	-6.7%	-1.8%	-3.0%					
2024-25	-1.2%	-1.2%	-1.2%	0.0%	0.0%	0.0%	-9.5%	2.7%	-1.8%	2.7%	1.8%					
2025-35	-1.5%	-1.5%	-1.5%	0.0%	N.A.	N.A.	1.5%	1.5%	-1.3%	1.5%	1.0%					
2025-45	-1.8%	-1.8%	-1.8%	0.0%	N.A.	N.A.	2.3%	2.1%	-1.5%	2.1%	1.6%					
Note: N.A. - Not Applicable																

TABLE 28
ACTIVE GENERAL AVIATION AND AIR TAXI AIRCRAFT

AS OF DEC. 31	FIXED WING										TOTAL			
	PISTON			TURBINE			ROTORCRAFT				GENERAL AVIATION		TOTAL	
	SINGLE ENGINE	MULTI-ENGINE	TOTAL	TURBO PROP	TURBO JET	TOTAL	PISTON	TURBINE	TOTAL	EXPERIMENTAL**	LIGHT SPORT	OTHER FLEET	PISTONS	TOTAL TURBINES
<u>Historical*</u>														
2010	139,519	15,900	155,419	9,369	11,484	20,853	3,588	6,514	10,102	24,784	6,528	5,684	223,370	27,367
2019	128,926	12,470	141,396	10,242	14,888	25,130	3,089	7,109	10,198	27,449	2,675	4,133	210,981	32,239
2020	124,059	11,947	136,006	10,317	15,316	25,633	2,930	6,816	9,746	26,367	2,570	3,818	204,140	32,449
2021	126,735	11,885	138,620	10,391	15,270	25,661	3,012	7,020	10,032	27,960	2,650	4,271	209,194	32,681
2022	126,076	11,652	137,728	10,713	16,126	26,839	2,748	7,021	9,769	28,062	2,666	4,476	209,540	33,860
2023	127,573	11,727	139,300	10,951	16,537	27,488	2,909	7,142	10,051	30,114	3,007	4,262	214,222	34,630
2024E	127,105	11,645	138,750	11,030	17,010	28,040	2,930	7,300	10,230	30,295	3,175	4,450	214,940	35,340
<u>Forecast</u>														
2025	126,690	11,580	138,270	11,100	17,505	28,605	2,955	7,465	10,420	30,425	3,285	4,595	215,600	36,070
2030	125,265	11,275	136,540	11,425	20,235	31,660	3,100	8,340	11,440	31,190	3,865	4,710	219,405	40,000
2035	124,340	11,085	135,425	11,935	23,335	35,270	3,230	9,290	12,520	32,325	4,500	4,765	224,805	44,560
2040	123,800	10,950	134,750	12,660	26,565	39,225	3,335	10,285	13,620	33,475	5,180	4,800	231,050	49,510
2045	123,925	10,925	134,850	13,540	29,865	43,405	3,435	11,280	14,715	34,670	5,870	4,840	238,350	54,685
<u>Avg Annual Growth</u>														
2010-24	-0.7%	-2.2%	-0.8%	1.2%	2.8%	2.1%	-1.4%	0.8%	0.1%	1.4%	-5.0%	-1.7%	-0.3%	1.8%
2024-25	-0.3%	-0.6%	-0.3%	0.6%	2.9%	2.0%	0.9%	2.3%	1.9%	0.4%	3.5%	3.3%	0.3%	2.1%
2025-35	-0.2%	-0.4%	-0.2%	0.7%	2.9%	2.1%	0.9%	2.2%	1.9%	0.6%	3.2%	0.4%	0.4%	2.1%
2025-45	-0.1%	-0.3%	-0.1%	1.0%	2.7%	2.1%	0.8%	2.1%	1.7%	0.7%	2.9%	0.3%	0.5%	2.1%

* Source: 2001-2010, 2012-2023, FAA General Aviation and Air Taxi Activity (and Avionics) Surveys.

**Experimental Light-sport category that was previously shown under Sport Aircraft is moved under Experimental Aircraft category, starting in 2012.

Note: An active aircraft is one that has a current registration and was flown at least one hour during the calendar year.

TABLE 29
ACTIVE GENERAL AVIATION AND AIR TAXI HOURS FLOWN
(In Thousands)

AS OF DEC. 31	PISTON				FIXED WING				ROTORCRAFT				TOTAL			
	SINGLE ENGINE		MULTI-ENGINE		TOTAL		TURBO PROP		TURBO JET		TURBINE TURBO		TOTAL		PISTON TURBINE	
	31	ENGINE	ENGINE	ENGINE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
Historical*																
2010	12,161	1,818	13,979	2,325	3,375	5,700	794	2,611	3,405	1,226	311	181	24,802	14,773	8,311	
2019	12,700	1,731	14,431	2,619	3,926	6,546	628	2,369	2,997	1,269	189	135	25,566	15,059	8,914	
2020	11,603	1,336	12,939	2,344	3,336	5,681	537	1,871	2,408	1,176	202	86	22,492	13,477	7,552	
2021	12,808	1,494	14,302	2,720	4,868	7,587	578	2,178	2,756	1,394	245	156	26,441	14,880	9,765	
2022	12,999	1,432	14,431	2,846	5,238	8,084	537	2,238	2,775	1,279	231	153	26,953	14,969	10,322	
2023	14,613	1,492	16,105	2,841	4,628	7,469	668	2,239	2,907	1,594	355	132	28,563	16,773	9,708	
2024E	14,087	1,493	15,580	2,936	4,850	7,786	674	2,295	2,969	1,564	352	143	28,394	16,254	10,082	
Forecast																
2025	13,584	1,495	15,079	2,994	5,085	8,079	682	2,354	3,036	1,531	350	152	28,227	15,760	10,434	
2030	12,238	1,498	13,736	3,184	6,125	9,309	724	2,670	3,394	1,575	362	168	28,544	14,460	11,979	
2035	11,990	1,498	13,488	3,347	7,186	10,533	759	3,012	3,771	1,656	423	172	30,044	14,247	13,545	
2040	12,035	1,507	13,542	3,548	8,253	11,802	788	3,359	4,147	1,744	498	175	31,908	14,330	15,161	
2045	12,232	1,539	13,771	3,782	9,320	13,102	816	3,712	4,528	1,837	576	177	33,991	14,587	16,814	
Avg Annual Growth																
2010-24	1.1%	-1.4%	0.8%	1.7%	2.6%	2.3%	-1.2%	-0.9%	-1.0%	1.8%	0.9%	-1.7%	1.0%	0.7%	1.4%	
2024-25	-3.6%	0.1%	-3.2%	2.0%	4.8%	3.8%	1.2%	2.6%	2.2%	-2.1%	-0.6%	6.4%	-0.6%	-3.0%	3.5%	
2025-35	-1.2%	0.0%	-1.1%	1.1%	3.5%	2.7%	1.1%	2.5%	2.2%	0.8%	1.9%	1.3%	0.6%	-1.0%	2.6%	
2025-45	-0.5%	0.1%	-0.5%	1.2%	3.1%	2.4%	0.9%	2.3%	2.0%	0.9%	2.5%	0.8%	0.9%	-0.4%	2.4%	

* Source: 2001-2010, 2012-2023, FAA General Aviation and Air Taxi Activity (and Avionics) Surveys.

**Experimental Light-sport category that was previously shown under Sport Aircraft is moved under Experimental Aircraft category, starting in 2012.

Note: An active aircraft is one that has a current registration and was flown at least one hour during the calendar year.

TABLE 30
ACTIVE PILOTS BY TYPE OF CERTIFICATE, EXCLUDING STUDENT PILOTS*

AS OF DEC. 31	RECREA- TIONAL	SPORT PILOT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	ROTOR- CRAFT ONLY	GLIDER ONLY	TOTAL LESS STUDENT PILOTS	INSTRUMENT RATED PILOTS ¹	GA PILOTS (EXCLUDING STUDENTS & ATPs)
Historical**										
2010	212	3,682	202,020	123,705	142,198	15,377	21,275	508,469	318,001	366,271
2019	127	6,467	161,105	100,863	164,947	14,248	19,143	466,900	314,168	301,953
2020	105	6,643	160,860	103,879	164,193	13,629	19,753	469,062	316,651	304,869
2021	85	6,801	161,459	104,610	163,934	13,191	20,328	470,408	317,169	306,474
2022	79	6,957	164,090	104,498	166,738	13,180	20,804	476,346	321,217	309,608
2023	71	7,144	167,711	106,711	174,113	13,428	21,292	490,470	332,313	316,357
2024	59	7,309	172,012	109,727	179,194	13,429	21,545	503,275	342,400	324,081
Forecast										
2025	50	7,560	174,950	112,200	183,900	13,600	21,800	514,060	351,350	330,160
2030	5	8,815	178,550	120,000	192,000	14,500	23,100	536,970	363,900	344,970
2035	0	10,090	176,700	123,150	199,400	15,650	23,750	548,740	373,650	349,340
2040	0	11,405	175,550	124,300	206,300	16,650	24,050	558,255	382,300	351,955
2045	0	12,530	176,100	124,750	213,400	17,650	24,150	568,580	390,450	355,180
Avg Annual Growth										
2010-24	-8.7%	5.0%	-1.1%	-0.9%	1.7%	-1.0%	0.1%	-0.1%	0.5%	-0.9%
2024-25	-15.3%	3.4%	1.7%	2.3%	2.6%	1.3%	1.2%	2.1%	2.6%	1.9%
2025-35	-100.0%	2.9%	0.1%	0.9%	0.8%	1.4%	0.9%	0.7%	0.6%	0.6%
2025-45	-99.9%	2.6%	0.0%	0.5%	0.7%	1.3%	0.5%	0.5%	0.5%	0.4%
** Source: FAA U.S. Civil Airmen Statistics.										

** Source: FAA U.S. Civil Airmen Statistics.

* Starting with April 2016, there is no expiration date on the new student pilot certificates. This generates a cumulative increase in the student pilot numbers and breaks the link between student pilot and private pilot or higher level certificates. Since there is no sufficient data yet to forecast the student certificates under the new rule, student pilot forecast is suspended and excluded from this table.

¹ Instrument rated pilots should not be added to other categories in deriving total.

Note: An active pilot is a person with a pilot certificate and a valid medical certificate.

TABLE 31
GENERAL AVIATION AIRCRAFT FUEL CONSUMPTION
(In Millions of Gallons)

FIXED WING													
PISTON					TURBINE			ROTORCRAFT			TOTAL FUEL CONSUMED		
		SINGLE ENGINE	MULTI-ENGINE	TURBO PROP	TURBO JET	PISTON	TURBINE	EXPERIMENTAL** / OTHER	LIGHT SPORT**	AVGAS	JET FUEL	TOTAL	
Historical*													
2010		133	54	187	1,123	11	125	22	1	221	1,435	1,656	
2019		131	45	213	1,170	8	127	16	1	200	1,510	1,711	
2020		146	35	201	1,036	8	105	14	1	204	1,342	1,546	
2021		155	47	230	1,557	8	123	18	1	229	1,909	2,138	
2022		158	45	242	1,683	8	123	21	1	233	2,048	2,281	
2023		175	46	237	1,420	9	118	24	2	256	1,776	2,032	
2024E		168	46	244	1,475	9	121	24	2	249	1,840	2,089	
Forecast													
2025		162	46	248	1,533	10	123	23	2	242	1,904	2,147	
2030		144	45	258	1,785	10	136	24	2	225	2,178	2,403	
2035		140	44	264	2,030	11	149	25	2	221	2,443	2,665	
2040		137	43	274	2,260	11	162	26	2	221	2,695	2,916	
2045		139	44	285	2,479	11	168	28	3	225	2,933	3,157	
Avg Annual Growth													
2010-24		1.7%	-1.1%	1.9%	2.0%	-0.9%	-0.2%	0.7%	1.8%	0.9%	1.8%	1.7%	
2024-25		-3.8%	-0.3%	1.5%	3.9%	1.1%	2.3%	-1.5%	-0.9%	-2.7%	3.5%	2.7%	
2025-35		-1.5%	-0.4%	0.6%	2.8%	1.0%	1.9%	0.8%	1.5%	-0.9%	2.5%	2.2%	
2025-45		-0.8%	-0.2%	0.7%	2.4%	0.8%	1.6%	0.9%	2.2%	-0.4%	2.2%	1.9%	
*Source: FAA APO Estimates.													

*Source: FAA APO Estimates.

**Experimental Light-sport category that was previously shown under Sport Aircraft is moved under Experimental Aircraft category, starting in 2012.

Note: Detail may not add to total because of independent rounding.

TABLE 32
TOTAL COMBINED AIRCRAFT OPERATIONS AT AIRPORTS
WITH FAA AND CONTRACT TRAFFIC CONTROL SERVICE
(In Thousands)

FISCAL YEAR	AIR			GENERAL AVIATION				MILITARY			NUMBER OF TOWERS	
	CARRIER	AIR TAXI/ COMMUTER	ITINERANT	LOCAL	TOTAL	ITINERANT	LOCAL	TOTAL	LOCAL	TOTAL	FAA	CONTRACT
<u>Historical</u>												
2010	12,658	9,410	14,864	11,716	26,580	1,309	1,298	2,607		51,255	264	244
2019	16,195	7,274	14,459	13,373	27,832	1,401	1,134	2,536		53,836	264	256
2020	11,742	5,514	12,791	12,597	25,387	1,245	1,020	2,265		44,907	264	256
2021	12,214	5,893	13,891	13,652	27,543	1,339	1,075	2,414		48,064	264	258
2022	15,150	6,522	14,635	14,029	28,664	1,268	986	2,254		52,591	264	260
2023	16,158	6,456	14,582	15,270	29,852	1,194	866	2,060		54,526	264	262
2024E	17,052	6,733	14,917	15,971	30,888	1,131	697	1,829		56,502	264	264
<u>Forecast</u>												
2025	17,529	7,029	15,348	16,456	31,804	1,145	722	1,867		58,229	264	265
2030	20,076	7,108	16,180	17,289	33,469	1,145	722	1,867		62,521	264	265
2035	22,024	7,753	16,480	17,621	34,101	1,145	722	1,867		65,744	264	265
2040	24,138	8,430	16,788	17,963	34,751	1,145	722	1,867		69,187	264	265
2045	26,382	9,143	17,106	18,316	35,421	1,145	722	1,867		72,813	264	265
<u>Avg Annual Growth</u>												
2010-24	2.2%	-2.4%	0.0%	2.2%	1.1%	-1.0%	-4.3%	-2.5%		0.7%		
2024-25	2.8%	4.4%	2.9%	3.0%	3.0%	1.2%	3.5%	2.1%		3.1%		
2025-35	2.3%	1.0%	0.7%	0.7%	0.7%	0.0%	0.0%	0.0%		1.2%		
2025-45	2.1%	1.3%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%		1.1%		
Source: FAA Air Traffic Activity.												

TABLE 33
TOTAL TRACON OPERATIONS
(In Thousands)

FISCAL YEAR	AIR CARRIER	AIR TAXI/ COMMUTER	GENERAL AVIATION	MILITARY	OVERFLIGHT	TOTAL
<u>Historical</u>						
2010	12,575	8,512	10,761	2,050	4,840	38,738
2019	16,014	6,600	10,960	1,946	3,706	39,227
2020	11,617	5,153	9,691	1,763	3,050	31,274
2021	12,045	5,462	10,742	1,894	3,393	33,536
2022	14,967	5,925	11,376	1,825	3,601	37,694
2023	15,957	5,823	11,001	1,699	3,509	37,988
2024E	16,841	6,054	11,133	1,630	3,599	39,256
<u>Forecast</u>						
2025	17,308	6,319	11,413	1,630	3,701	40,371
2030	19,802	6,136	12,057	1,630	3,997	43,622
2035	21,702	6,644	12,253	1,630	4,259	46,488
2040	23,767	7,174	12,454	1,630	4,540	49,566
2045	25,960	7,729	12,660	1,630	4,836	52,815
<u>Avg Annual Growth</u>						
2010-24	2.1%	-2.4%	0.2%	-1.6%	-2.1%	0.1%
2024-25	2.8%	4.4%	2.5%	0.0%	2.8%	2.8%
2025-35	2.3%	0.5%	0.7%	0.0%	1.4%	1.4%
2025-45	2.0%	1.0%	0.5%	0.0%	1.3%	1.4%
Source: FAA Air Traffic Activity.						

TABLE 34
IFR AIRCRAFT HANDLED
AT FAA EN ROUTE TRAFFIC CONTROL CENTERS
(In Thousands)

FISCAL YEAR	IFR AIRCRAFT HANDLED			
	COMMERCIAL	GENERAL AVIATION	MILITARY	TOTAL
<u>Historical</u>				
2010	30,965	6,550	2,982	40,498
2019	35,783	6,309	1,645	43,737
2020	25,608	5,096	1,404	32,108
2021	26,449	6,124	1,525	34,098
2022	32,891	7,034	1,511	41,437
2023	34,436	6,461	1,416	42,313
2024E	36,209	6,284	1,385	43,878
<u>Forecast</u>				
2025	36,868	6,427	1,385	44,681
2030	41,452	6,830	1,385	49,667
2035	45,240	7,036	1,385	53,661
2040	49,391	7,252	1,385	58,029
2045	53,810	7,480	1,385	62,676
<u>Avg Annual Growth</u>				
2010-24	1.1%	-0.3%	-5.3%	0.6%
2024-25	1.8%	2.3%	0.0%	1.8%
2025-35	2.1%	0.9%	0.0%	1.8%
2025-45	1.9%	0.8%	0.0%	1.7%
Source: FAA Air Traffic Activity				