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SELECTED STATISTICS UNITED STATES GENERAL AVIATION 1959-1975



FINAL REPORT

JULY, 1976

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United States General Aviation

Aircraft In Operation

Aircraft Fleet Size By Primary Use

Aircraft Total Flight Hours

Aircraft Flight Hours By Primary Use

Aircraft Cost of Operation

Retail Value Data

Aircraft Fuel Prices

1959-1975

FAA Contract No.: DOT-FA76WA-3819

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May 1976

Sources of Discrepancies in Data

The general aviation data published in this report may differ significantly from other historical data published by the FAA (e.g., in the Census of U.S. Civil Aircraft and the FAA Statistical Handbook of Aviation). These discrepancies are primarily due to differences in definition. Specifically, FAA data usually pertains only to the active general aviation fleet--those aircraft having currently valid certificates of airworthiness. The fleet and activity data presented in this report are typically higher than that published elsewhere by the FAA for the following reasons:

- (1) Fleet size information obtained from FAA sources was adjusted according to aircraft, new and used, sales reports and the results of special surveys undertaken by Aviation Data Services. The latter were incorporated because changes in FAA reporting procedures over time may have caused perturbations in the fleet size data base.
- (2) The data published in this report includes fleet and activity information for those aircraft whose certificate of airworthiness may have lapsed, so long as such lapse was not greater than six months. Typically such aircraft are removed from the Aircraft Registration Master File, the primary source of FAA data, without delay.
- (3) FAA activity data is based on information obtained from the optional section of the Aircraft Registration Eligibility, Identification and Activity Report. The data published in this report includes the foregoing but is supplemented by information from special surveys conducted by Aviation Data Services.

Preface

This report was prepared by Aviation Data Service, Inc. (ADS), Wichita, Kansas under contract with the Federal Aviation Administration (FAA), Office of Aviation Policy. This report presents data on General Aviation cost of operation, aircraft value, fuel cost, plus fleet size and hours flown. This information is presented in historical time series and is tabulated by aircraft type and user category. The period 1959 through 1975 is covered by this report.

Data provided in the present report updates and/or makes uniform data previously used in reports such as *"General Aviation Cost Impact Study,"* Battelle-Columbus (June 1973); *"Aircraft Retail Value and Cost Data,"* Aviation Data Service (March 1975); and, *"Study of The Effects of Increased Costs On Corporate and Business Flying,"* Battelle-Columbus (November 1975).

An explanation of the aircraft category codes provided in this report and the corresponding codes used in some sections of the Battelle-Columbus June 1973 study is as follows:

Aircraft Category Code

Aviation Data Service, Inc.	Aircraft Description	Battelle-Columbus Cost Impact Study
1	Single Engine Piston - 1 to 3 Seat	1
2	Single Engine Piston - 4 Place & Over	2
3	Twin Engine Piston - Under 12,500 lbs. TOGW	3
6	Twin Engine Turboprop - Under 12,500 lbs. TOGW	4
7	Twin Engine Turboprop - Over 12,500 lbs. TOGW	5
8	Twin Engine Turbojet/Fan - Under 20,000 lbs. TOGW	6
9	Twin Engine Turbojet/Fan - Over 20,000 lbs. TOGW	7
11	Multi-Engine Turbojet/Fan - Over 20,000 lbs. TOGW	8
12	Piston Engine - Rotary Wing	9
13	Turbine Engine - Rotary Wing	10

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AVIATION ACTIVITY DATA

The United States general aviation activity data presented herewith was provided by Aviation Data Service, Inc. (ADS), Wichita, Kansas. Estimates for the number of operational* aircraft and hours in service have been compiled for the aircraft types and user categories shown in the following tables for the calendar years 1959-1975.

The user categories portrayed in the following tables are defined as the standard FAA user categories:

- **Business and Executive Transportation** –
 - Business** – Any use of an aircraft not for compensation or hire by an individual for the purpose of transportation required by a business in which he is engaged.
 - Executive** – Any use of an aircraft by a corporation, company, or other organization for the purposes of transporting its employees and/or property not for compensation or hire and employing professional flight personnel for operation of the aircraft.
- **Personal Flying** – Any use of an aircraft for personal purposes not associated with a business or profession, and not for hire. This includes maintenance of pilot flight proficiency.
- **Aerial Application** – Aerial application in agriculture consists of those activities that involve the discharge of materials from aircraft in flight and a miscellaneous collection of minor activities that do not require the distribution of any materials. Generally the flying will be in support of health, forestry and agriculture activities.
- **Instructional Flying** – Any use of an aircraft for the purposes of formal instruction with the flight instructor aboard, or with maneuvers on particular flight(s) specified by the flight instructor. Excluded is flight proficiency flying after pilot certification and type rating.
- **Air Taxi** – Any use of an aircraft by the holder of an Air Taxi Operating Certificate (FAR Part 135) which is authorized by that certificate (includes operations by commuter air carriers and non-scheduled air taxi operators).
- **Industrial/Special** – Any use of an aircraft for specialized work allied with industrial activity, excluding transportation and aerial application (Examples: pipeline patrol, survey, advertising, photography, helicopter hoist).
- **Rental** – Aircraft used for short periods by various airmen on which an hourly, daily or weekly fee is paid.
- **Other** – Any use of an aircraft not accounted for by the previous user categories. (Examples: research and development, marketing and sales demonstrations, sport parachuting, etc.).

*Aircraft in operation are defined by ADS as those aircraft with a current airworthiness certificate. Prior to 1970 FAA designated aircraft with a current airworthiness certificate as "eligible aircraft". A change in definition was incorporated in 1970 to more clearly identify the active portion of the fleet.

AIRCRAFT IN OPERATION

Aircraft operational data is given in two sets of tables. Each table in the first set, Tables One through Nine, presents 1959-1975 data for the 14 aircraft types within a specific user category. The second set of Tables, 10 through 26, show the distribution of aircraft among user categories for each calendar year 1959 through 1975.

AIRCRAFT FLIGHT HOURS

Aircraft hours in service is also presented in two sets of tables. Tables 27 through 35 show 1959-1975 data within each specific user category. Tables 36 through 52 provides distribution of hours for each user category for each calendar year 1959 through 1975.

Aircraft In Operation
by
Calendar Year

1959-1975

TOTAL AIRCRAFT IN OPERATION
CALENDAR YEARS 1975-1959

	1975*	1974	1973	1972**	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	49,699	50,100	47,835	46,816	45,043	43,821	47,134	37,312	35,775	34,794	34,566	33,973	33,474	34,755	36,081	35,291	35,721
2. Single-Engine Piston 4 Place and Over	87,514	84,082	80,293	76,468	74,021	72,014	68,062	70,869	66,076	61,213	54,706	52,073	48,470	44,560	39,811	36,572	30,206
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	19,357	17,112	17,112	15,852	15,535	15,113	15,739	14,169	13,240	12,661	10,997	10,721	9,612	8,677	7,668	6,899	8,238
4. Twin-Engine Piston Over 12,500 Lbs. TOGW	1,058	1,177	1,124	1,181	1,258	1,225	1,063	1,034	917	1,134	1,084	825	837	846	836	994	1,261
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	278	283	271	262	292	286	214	184	137	183	119	80	76	156	155	244	238
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,856	1,382	1,329	1,119	1,067	1,040	917	680	437	61	30	7	1	---	---	---	---
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	213	211	202	197	235	229	224	252	246	227	246	149	133	99	88	59	31
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	770	641	612	540	504	489	476	432	335	283	58	50	12	5	5	4	---
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	440	407	388	382	363	351	369	255	172	85	31	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	254	239	228	219	196	191	179	120	94	112	6	31	24	25	24	1	---
ROTARY WING																	
12. Piston Engine	2,737	2,362	2,255	2,060	1,935	1,882	2,225	1,409	1,258	1,542	1,311	1,421	1,256	1,009	801	676	585
13. Turbine Engine	1,042	809	772	668	639	621	452	292	145	21	8	65	57	35	34	23	16
OTHER	12,367	9,192	8,778	7,638	6,533	6,356	2,858	4,507	3,360	1,464	990	1,203	1,218	791	650	684	623
TOTAL	176,905	168,817	161,190	153,402	147,621	143,618	139,912	131,515	122,192	113,780	104,152	100,598	95,170	90,958	86,153	81,447	76,919

* Preliminary Data

** Data revised to reflect updated information on inactive fleet.

Table 1

Prepared by R. W. Simpson, March 31, 1976

**BUSINESS/EXECUTIVE AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	3,532	3,083	2,944	2,758	2,619	2,548	1,109	1,678	1,610	1,565	863	849	837	869	902	882	893
2. Single-Engine Piston 4 Place and Over	30,428	26,406	20,411	20,078	20,013	19,470	12,973	18,568	17,312	16,038	13,379	12,758	11,875	10,917	9,754	8,960	7,400
3. Twin Engine Piston Under 12,500 Lbs. TOGW	11,697	11,349	10,677	10,187	9,957	9,688	8,898	9,238	8,630	8,255	7,286	7,108	6,373	5,753	5,084	4,574	5,462
4. Twin Engine Piston Over 12,500 Lbs. TOGW	549	591	619	682	712	693	727	709	627	776	827	629	639	645	638	758	962
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	27	10	18	27	32	32	17	15	11	15	4	3	3	5	5	8	8
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,313	1,109	1,059	877	772	752	779	578	371	52	28	5	1	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	192	196	189	186	222	216	212	238	232	214	232	141	125	94	83	56	29
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	638	562	537	471	418	406	357	324	251	212	42	36	9	3	3	4	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	391	383	366	354	329	318	351	242	163	81	31	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	211	222	211	192	180	175	164	110	86	103	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	456	358	342	294	285	277	234	232	208	254	257	279	246	196	157	132	115
13. Turbine Engine	309	249	237	206	204	199	163	128	64	1	5	41	36	22	21	18	15
OTHER	393	285	272	753	208	202	100	135	100	44	30	36	37	24	20	21	20
TOTAL	50,136	44,803	37,882	37,065	35,951	34,976	26,084	32,195	29,665	27,610	22,984	21,885	20,181	18,528	16,667	15,413	14,904

Prepared by R. W. Simpson, March 31, 1976

*Preliminary Data
Table 2

**PERSONAL AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	28,826	30,074	28,715	27,839	26,460	25,742	26,490	23,507	22,538	21,920	22,261	21,878	21,557	22,382	23,236	22,728	23,004
2. Single-Engine Piston 4 Place and Over	43,923	45,088	47,851	45,122	42,387	41,238	44,189	40,750	37,998	35,198	31,476	29,942	27,870	25,622	22,891	21,029	17,368
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	2,839	2,881	2,909	2,528	2,334	2,271	3,281	2,069	1,933	1,836	1,507	1,469	1,317	1,189	1,050	945	1,129
4. Twin-Engine Piston Over 12,500 Lbs. TOGW	80	68	65	102	73	71	48	46	41	51	30	23	23	24	23	28	35
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	18	12	2	4	14	14	4	4	3	4	---	---	---	---	---	---	---
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	31	22	22	31	16	16	18	14	9	1	1	1	1	---	---	---	---
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	2	3	3	1	1	1	2	2	3	2	4	2	2	2	1	1	1
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	13	19	18	8	9	8	9	9	7	6	1	1	---	---	---	---	---
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	9	12	12	4	7	7	---	---	---	---	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	2	---	---	4	2	2	2	2	1	1	---	---	---	---	---	---	---
ROTARY WING																	
12. Piston Engine	223	205	196	165	108	105	676	120	107	133	143	155	137	110	87	74	64
13. Turbine Engine	49	51	49	18	22	21	48	7	4	16	---	---	---	---	---	---	---
OTHER	8,841	6,581	6,285	5,326	4,671	4,545	1,867	3,426	2,554	1,112	787	958	970	630	517	544	496
TOTAL	84,856	85,016	86,127	81,152	76,104	74,041	76,634	69,956	65,198	60,280	56,210	54,429	51,876	49,959	47,805	45,349	42,097

Prepared by R. W. Simpson, March 31, 1976

*Preliminary Data
Table 3

**AERIAL APPLICATION AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	6,257	6,407	6,118	5,941	5,639	5,487	5,570	5,224	5,008	4,872	5,388	5,299	5,222	5,422	5,629	5,505	5,572
2. Single Engine Piston 4 Place and Over	165	164	163	168	137	133	87	71	61	61	87	104	97	89	80	73	60
3. Twin Engine Piston Under 12,500 Lbs. TOGW	98	77	73	71	66	64	42	43	40	38	24	21	19	17	15	14	16
4. Twin Engine Piston Over 12,500 Lbs. TOGW	163	199	181	108	111	108	69	67	60	74	46	35	35	36	35	42	53
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	74	78	89	59	65	63	15	13	10	13	--	--	--	--	--	--	--
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	3	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	597	539	515	504	472	459	338	262	233	285	157	170	151	120	96	81	70
13. Turbine Engine	16	16	15	5	8	7	--	3	1	--	--	--	--	--	--	--	--
OTHER	161	110	105	41	85	83	16	90	67	29	23	28	28	18	15	16	14
TOTAL	7,544	7,581	7,260	6,897	6,583	6,404	6,137	5,773	5,480	5,372	5,725	5,657	5,552	5,702	5,870	5,731	5,785

*Preliminary Data
Table 4

Prepared by R. W. Simpson, March 31, 1976

**INSTRUCTION AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	6,500	6,582	6,284	6,806	6,532	6,356	10,893	5,037	4,830	4,697	4,217	4,145	4,084	4,240	4,402	4,305	4,358
2. Single-Engine Piston 4 Place and Over	5,163	5,120	4,885	4,837	4,731	4,603	5,109	5,315	4,956	4,590	4,246	4,062	3,781	3,476	3,105	2,853	2,356
3. Twin Engine Piston Under 12,500 Lbs. TOGW	609	578	552	496	468	455	588	354	331	316	143	139	125	113	100	90	107
4. Twin Engine Piston Over 12,500 Lbs. TOGW	18	17	13	27	30	29	11	10	9	11	9	7	7	7	7	8	10
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	2	--	--	--	4	4	24	20	15	20	32	22	20	43	42	66	64
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	2	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	1	1	1	--	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	4	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	3	16	12	12	12	--	--
ROTARY WING																	
12. Piston Engine	204	196	188	137	89	87	153	84	75	92	92	99	88	70	56	47	40
13. Turbine Engine	7	1	1	5	--	--	--	--	--	2	--	--	--	--	--	--	--
OTHER	628	469	448	239	332	322	249	338	252	110	102	124	125	81	66	70	64
TOTAL	13,142	12,963	12,372	12,148	12,187	11,857	17,027	11,158	10,468	9,838	8,845	8,615	8,243	8,042	7,790	7,439	6,999

*Preliminary Data
Table 5

Prepared by R. W. Simpson, March 31, 1976

**AIR TAXI AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	114	109	104	117	107	104	218	187	179	174	194	204	201	208	216	212	214
2. Single-Engine Piston 4 Place and Over	1,775	1,771	1,691	1,613	1,759	1,711	2,731	3,898	3,634	3,367	3,406	3,228	3,005	2,763	2,468	2,268	1,873
3. Twin Engine Piston Under 12,500 Lbs. TOGW	2,636	2,117	2,023	1,785	1,867	1,816	2,162	1,785	1,668	1,595	1,502	1,458	1,307	1,180	1,043	938	1,120
4. Twin Engine Piston Over 12,500 Lbs. TOGW	83	14	14	26	23	22	13	12	11	14	24	18	18	19	18	22	28
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	83	99	81	68	76	74	53	46	34	46	26	17	17	34	34	53	52
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	264	229	218	162	227	221	92	68	44	6	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	2	6	5	6	6	6	4	5	5	4	1	1	1	1	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	87	46	42	42	47	46	95	86	67	57	14	12	3	2	2	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	14	4	5	6	1	1	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	369	400	382	442	476	463	411	359	321	393	388	422	372	300	237	200	174
13. Turbine Engine	421	289	276	277	242	235	118	95	47	--	2	16	14	9	9	4	1
OTHER	169	130	123	87	89	87	76	45	34	15	4	5	5	3	3	3	2
TOTAL	6,017	5,214	4,964	4,631	4,920	4,786	5,973	6,586	6,044	5,671	5,561	5,381	4,943	4,519	4,030	3,700	3,464

Prepared by R. W. Simpson, March 31, 1976

*Preliminary Data
Table 6

**INDUSTRIAL/SPECIAL AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	647	674	644	673	720	700	120	746	715	696	585	579	569	591	613	600	607
2. Single-Engine Piston 4 Place and Over	821	768	733	649	683	665	75	567	529	490	333	313	291	267	239	219	182
3. Twin Engine Piston Under 12,500 Lbs. TOGW	206	238	227	199	220	213	58	142	132	127	87	86	77	69	62	55	66
4. Twin Engine Piston Over 12,500 Lbs. TOGW	51	60	51	80	106	104	64	62	55	68	27	21	21	20	21	24	31
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	7	5	5	11	14	14	--	13	10	13	8	5	5	10	10	16	16
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	6	2	2	1	2	2	--	--	--	--	--	--	--	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	11	1	1	2	1	1	--	--	--	--	--	--	--	--	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	7	3	1	1	1	1	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	684	495	472	406	418	406	40	268	239	293	167	180	159	130	102	86	74
13. Turbine Engine	39	138	132	106	113	110	23	47	23	--	1	8	7	4	4	1	--
OTHER	156	119	114	50	82	80	52	45	34	15	5	6	6	4	4	3	3
TOTAL	2,635	2,503	2,382	2,178	2,361	2,297	432	1,880	1,737	1,702	1,213	1,198	1,135	1,095	1,055	1,004	979

Prepared by R. W. Simpson, March 31, 1976

AVIATION DATA SERVICE, INC.
HEALTHY VULNERABLE OPERATION

*Preliminary Data
Table 7

**RENTAL AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959****

	1975*	1974	1973	1972	1971	1970	1969**	1968**	1967**	1966**	1965**	1964**	1963**	1962**	1961**	1960**	1959**
FIXED WING																	
1. Single-Engine Piston 1 to 3 Seat	2,308	2,380	2,272	2,097	2,108	2,050	--	--	--	--	--	--	--	--	--	--	--
2. Single-Engine Piston 4 Place and Over	4,098	3,903	3,726	3,445	3,482	3,388	--	--	--	--	--	--	--	--	--	--	--
3. Twin Engine Piston Under 12,500 Lbs. TOGW	393	335	320	285	264	256	--	--	--	--	--	--	--	--	--	--	--
4. Twin Engine Piston Over 12,500 Lbs. TOGW	36	69	47	34	41	40	--	--	--	--	--	--	--	--	--	--	--
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	40	30	29	16	14	14	--	--	--	--	--	--	--	--	--	--	--
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	9	3	3	3	2	2	--	--	--	--	--	--	--	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	1	1	1	--	1	1	--	--	--	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	3	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	21	33	32	13	19	19	--	--	--	--	--	--	--	--	--	--	--
13. Turbine Engine	9	12	11	7	7	7	--	--	--	--	--	--	--	--	--	--	--
OTHER	479	349	334	283	254	247	--	--	--	--	--	--	--	--	--	--	--
TOTAL	7,408	7,115	6,777	6,183	6,193	6,025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Preliminary Data
**Rental activity cannot be separately identified for 1969 and prior years.

Table 8

Prepared by R. W. Simpson, March 31, 1976

**OTHER AIRCRAFT IN OPERATION
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	1,515	791	754	785	858	834	2,734	933	895	870	1,058	1,019	1,004	1,043	1,083	1,059	1,073
2. Single Engine Piston 4 Place and Over	1,141	872	833	756	829	806	2,898	1,700	1,586	1,469	1,779	1,666	1,551	1,426	1,274	1,170	967
3. Twin Engine Piston Under 12,500 Lbs. TOGW	389	337	322	301	359	350	710	538	506	494	447	440	394	356	314	283	338
4. Twin Engine Piston Over 12,500 Lbs. TOGW	88	159	134	122	162	158	131	128	114	140	121	92	94	95	94	112	142
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	27	49	47	77	73	71	101	73	54	72	49	33	31	64	64	101	98
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	28	26	24	44	47	46	28	20	13	2	1	1	---	---	---	---	---
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	6	5	4	2	4	4	6	7	6	7	8	4	4	2	4	2	1
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	27	13	13	19	28	27	15	13	10	8	1	1	---	---	---	---	---
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	5	5	2	17	25	24	18	13	9	4	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	26	17	17	23	14	14	13	8	7	8	3	15	12	13	12	1	---
ROTARY WING																	
12. Piston Engine	183	136	128	99	68	66	373	84	75	92	107	116	103	83	66	56	48
13. Turbine Engine	192	53	51	44	43	42	100	12	6	2	---	---	---	---	---	---	---
OTHER	1,540	1,149	1,097	859	812	790	498	428	319	139	39	46	47	31	25	27	24
TOTAL	5,167	3,612	3,426	3,148	3,322	3,232	7,625	3,957	3,600	3,307	3,613	3,433	3,240	3,113	2,936	2,811	2,691

*Preliminary Data

Table 9

Prepared by R. W. Simpson, March 31, 1976

Aircraft Count By Primary Use by Calendar Year

1959-1975

Category	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
TOTAL	14,000	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000	25,000	26,000	27,000	28,000	29,000	30,000
General Aviation	10,000	10,500	11,000	11,500	12,000	12,500	13,000	13,500	14,000	14,500	15,000	15,500	16,000	16,500	17,000	17,500	18,000
Commercial	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Military	2,000	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000	9,500	10,000
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AVIATION DATA SERVICE, INC. - 1975
 10000 WASHINGTON AVENUE, SUITE 100
 WASHINGTON, D.C. 20007

**AIRCRAFT — BY PRIMARY USE CATEGORY
CALENDAR YEAR 1975***

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	49,699	3,532	28,826	6,500	114	647	2,308	1,515
2. Single-Engine Piston 4 Place and Over	87,514	30,428	43,923	5,163	1,776	821	4,098	1,141
3. Twin Engine Piston Under 12,500 Lbs. TOGW	18,867	11,697	2,839	98	2,636	206	393	389
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,068	549	80	163	83	51	36	88
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	278	27	18	74	83	7	40	27
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,656	1,313	31	3	264	6	9	28
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	213	192	2	--	2	11	--	6
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	770	638	13	--	87	--	1	27
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	440	391	9	6	14	7	3	5
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	254	211	2	4	--	--	11	26
ROTARY WING								
12. Piston Engine	2,737	456	223	597	204	684	21	183
13. Turbine Engine	1,042	309	49	16	7	39	9	192
OTHER	12,367	393	8,841	161	169	156	479	1,540
TOTAL	176,905	50,136	84,856	7,544	6,017	2,635	7,408	5,167

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 10

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1974**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	50,100	3,083	30,074	6,407	6,582	109	674	2,380	791
2. Single-Engine Piston 4 Place and Over	84,092	26,406	45,088	164	5,120	1,771	768	3,903	872
3. Twin Engine Piston Under 12,500 Lbs. TOGW	17,912	11,349	2,881	77	578	2,117	238	335	337
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,177	591	68	199	17	14	60	69	159
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	283	10	12	78	--	99	5	30	49
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	1,392	1,109	22	1	--	229	2	3	26
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	211	196	3	--	--	6	1	--	5
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	641	562	19	--	--	46	--	1	13
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	407	383	12	--	--	4	3	--	5
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	239	222	--	--	--	--	--	--	17
ROTARY WING									
12. Piston Engine	2,362	358	205	539	196	400	495	33	136
13. Turbine Engine	809	249	51	16	1	289	138	12	53
OTHER	9,192	285	6,581	110	469	130	119	349	1,149
TOTAL	168,817	44,803	85,016	7,591	12,963	5,214	2,503	7,115	3,612

Prepared by R. W. Simpson, March 31, 1976

Table 11

**AIRCRAFT — BY PRIMARY USE CATEGORY
CALENDAR YEAR 1973**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	47,835	2,944	28,715	6,118	6,284	104	644	2,272	754
2. Single-Engine Piston 4 Place and Over	80,293	20,411	47,851	163	4,885	1,691	733	3,726	833
3. Twin Engine Piston Under 12,500 Lbs. TOGW	17,103	10,677	2,909	73	552	2,023	227	320	322
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,124	619	65	181	13	14	51	47	134
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	271	18	2	89	—	81	5	29	47
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	1,329	1,059	22	1	—	218	2	3	24
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	202	189	3	—	—	5	1	—	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	612	537	18	—	1	42	—	1	13
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	388	366	12	—	—	5	1	2	2
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	—	—	—	—	—	—	—	—	—
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	228	211	—	—	—	—	—	—	17
ROTARY WING									
12. Piston Engine	2,255	342	196	515	188	382	472	32	128
13. Turbine Engine	772	237	49	15	1	276	132	11	51
OTHER	8,778	272	6,285	105	448	123	114	334	1,097
TOTAL	161,190	37,882	86,127	7,260	12,372	4,964	2,382	6,777	3,426

Prepared by R. W. Simpson, March 31, 1976

Table 12

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1972***

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	46,816	2,758	27,839	5,941	6,606	117	673	2,097	785
2. Single-Engine Piston 4 Place and Over	76,468	20,078	45,122	168	4,637	1,613	649	3,445	756
3. Twin Engine Piston Under 12,500 Lbs. TOGW	15,852	10,187	2,528	71	496	1,785	199	285	301
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,181	682	102	108	27	26	80	34	122
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	262	27	4	59	--	68	11	16	77
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,119	877	31	--	1	162	1	3	44
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	197	186	1	--	--	6	2	--	2
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	540	471	8	--	--	42	--	--	19
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	382	354	4	--	--	6	1	--	17
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	219	192	4	--	--	--	--	--	23
ROTARY WING									
12. Piston Engine	2,060	294	165	504	137	442	406	13	99
13. Turbine Engine	668	206	18	5	5	277	106	7	44
OTHER	7,638	753	5,326	41	239	87	50	283	859
TOTAL	153,402	37,065	81,152	6,897	12,148	4,631	2,178	6,183	3,148

*Data revised to reflect updated information on inactive fleet

Prepared by R. W. Simpson, March 31, 1976

Table 13

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1971**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	45,043	2,619	26,450	5,639	6,532	107	720	2,108	858
2. Single-Engine Piston 4 Place and Over	74,021	20,013	42,387	137	4,731	1,759	683	3,482	829
3. Twin Engine Piston Under 12,500 Lbs. TOGW	15,535	9,957	2,334	66	468	1,867	220	264	359
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,258	712	73	111	30	23	106	41	162
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	292	32	14	65	4	76	14	14	73
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	1,067	772	16	--	1	227	2	2	47
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	235	222	1	--	--	6	1	1	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	504	418	9	--	--	47	1	1	28
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	363	329	7	--	--	1	1	--	25
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	196	130	2	--	--	--	--	--	14
ROTARY WING									
12. Piston Engine	1,935	285	108	472	89	476	418	19	68
13. Turbine Engine	639	204	22	8	--	242	113	7	43
OTHER	6,533	208	4,671	85	332	89	82	254	812
TOTAL	147,621	35,951	76,104	6,583	12,187	4,920	2,361	6,193	3,322

Prepared by R. W. Simpson, March 31, 1976

Table 14

**AIRCRAFT — BY PRIMARY USE CATEGORY
CALENDAR YEAR 1970**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	43,821	2,548	25,742	5,487	6,356	104	700	2,050	834
2. Single-Engine Piston 4 Place and Over	72,014	19,470	41,238	133	4,603	1,711	665	3,388	806
3. Twin Engine Piston Under 12,500 Lbs. TOGW	15,113	9,688	2,271	64	455	1,816	213	256	350
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,225	693	71	108	29	22	104	40	158
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	286	32	14	63	4	74	14	14	71
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,040	752	16	--	1	221	2	2	46
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	229	216	1	--	--	6	1	1	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	489	406	8	--	--	46	1	1	27
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	351	318	7	--	--	1	1	--	24
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	191	175	2	--	--	--	--	--	14
ROTARY WING									
12. Piston Engine	1,882	277	105	459	87	463	406	19	66
13. Turbine Engine	621	199	21	7	--	235	110	7	42
OTHER	6,356	202	4,545	83	322	87	80	247	790
TOTAL	143,618	34,976	74,041	6,404	11,857	4,786	2,297	6,025	3,232

Prepared by R. W. Simpson, March 31, 1976

Table 15

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1969**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	47,134	1,109	26,490	5,570	10,893	218	120	--	2,734
2. Single-Engine Piston 4 Place and Over	68,062	12,973	44,189	87	5,109	2,731	75	--	2,898
3. Twin Engine Piston Under 12,500 Lbs. TOGW	15,739	8,898	3,281	42	588	2,162	58	--	710
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,063	727	48	69	11	13	64	--	131
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	214	17	4	15	24	53	--	--	101
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	917	779	18	--	--	92	--	--	28
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	224	212	2	--	--	4	--	--	6
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	476	357	9	--	--	95	--	--	15
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	369	351	--	--	--	--	--	--	18
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	179	164	2	--	--	--	--	--	13
ROTARY WING									
12. Piston Engine	2,225	234	676	338	153	411	40	--	373
13. Turbine Engine	452	163	48	--	--	118	23	--	100
OTHER	2,858	100	1,867	16	249	76	52	--	498
TOTAL	139,912	26,084	76,634	6,137	17,027	5,973	432	--	7,625

Prepared by R. W. Simpson, March 31, 1976

Table 16

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1968**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	37,312	1,678	23,507	5,224	5,037	187	746	--	933
2. Single-Engine Piston 4 Place and Over	70,869	18,568	40,750	71	5,315	3,898	567	--	1,700
3. Twin Engine Piston Under 12,500 Lbs. TOGW	14,169	9,238	2,069	43	354	1,785	142	--	538
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,034	709	46	67	10	12	62	--	128
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	184	15	4	13	20	46	13	--	73
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	680	578	14	--	--	68	--	--	20
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	252	238	2	--	--	5	--	--	7
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	432	324	9	--	--	86	--	--	13
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	255	242	--	--	--	--	--	--	13
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	120	110	2	--	--	--	--	--	8
ROTARY WING									
12. Piston Engine	1,409	232	120	262	84	359	268	--	84
13. Turbine Engine	292	128	7	3	--	95	47	--	12
OTHER	4,507	135	3,426	90	338	45	45	--	428
TOTAL	131,515	32,195	69,956	5,773	11,158	6,586	1,890	--	3,957

Prepared by R. W. Simpson, March 31, 1976

Table 17

**AIRCRAFT — BY PRIMARY USE CATEGORY
CALENDAR YEAR 1967**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	35,775	1,610	22,538	5,008	4,830	179	715	895	--
2. Single-Engine Piston 4 Place and Over	66,076	17,312	37,998	61	4,956	3,634	529	1,586	--
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	13,240	8,630	1,933	40	331	1,668	132	506	--
4. Twin-Engine Piston Over 12,500 Lbs. TOGW	917	627	41	60	9	11	55	114	--
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	137	11	3	10	15	34	10	54	--
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	437	371	9	--	--	44	--	13	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	246	232	3	--	--	5	--	6	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	335	251	7	--	--	67	--	10	--
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	172	163	--	--	--	--	--	9	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	94	86	1	--	--	--	--	7	--
ROTARY WING									
12. Piston Engine	1,258	208	107	233	75	321	239	75	--
13. Turbine Engine	145	64	4	1	--	47	23	6	--
OTHER	3,360	100	2,554	67	252	34	34	319	--
TOTAL	122,192	29,665	65,198	5,480	10,468	6,044	1,737	3,600	--

Prepared by R. W. Simpson, March 31, 1976

Table 18

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1966**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	34,794	1,565	21,920	4,872	4,697	174	696	--	870
2. Single-Engine Piston 4 Place and Over	61,213	16,038	35,198	61	4,590	3,367	490	--	1,469
3. Twin Engine Piston Under 12,500 Lbs. TOGW	12,661	8,255	1,836	38	316	1,595	127	--	494
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,134	776	51	74	11	14	68	--	140
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	183	15	4	13	20	46	13	--	72
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	61	52	1	--	--	6	--	--	2
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	227	214	2	--	--	4	--	--	7
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	283	212	6	--	--	57	--	--	8
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	85	81	--	--	--	--	--	--	4
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	112	103	1	--	--	--	--	--	8
ROTARY WING									
12. Piston Engine	1,542	254	133	285	92	393	293	--	92
13. Turbine Engine	21	1	16	--	2	--	--	--	2
OTHER	1,464	44	1,112	29	110	15	15	--	139
TOTAL	113,780	27,610	60,280	5,372	9,838	5,671	1,702	--	3,307

Prepared by R. W. Simpson, March 31, 1976

Table 19

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1965**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	34,566	863	22,261	5,388	4,217	194	585	--	1,058
2. Single-Engine Piston 4 Place and Over	54,706	13,379	31,476	87	4,246	3,406	333	--	1,779
3. Twin Engine Piston Under 12,500 Lbs. TOGW	10,997	7,286	1,507	24	143	1,502	87	--	448
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,084	827	30	46	9	24	27	--	121
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	119	4	--	--	32	26	8	--	49
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	30	28	1	--	--	--	--	--	1
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	246	232	4	--	1	1	--	--	8
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	58	42	1	--	--	14	--	--	1
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	31	31	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	6	--	--	--	3	--	--	--	3
ROTARY WING									
12. Piston Engine	1,311	257	143	157	92	388	167	--	107
13. Turbine Engine	8	5	--	--	--	2	1	--	--
OTHER	990	30	787	23	102	4	5	--	39
TOTAL	104,152	22,984	56,210	5,725	8,845	5,561	1,213	--	3,614

Prepared by R. W. Simpson, March 31, 1976

Table 20

**AIRCRAFT — BY PRIMARY USE CATEGORY
CALENDAR YEAR 1964**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	33,973	849	21,878	5,299	4,145	204	579	1,019
2. Single-Engine Piston 4 Place and Over	52,073	12,758	29,942	104	4,062	3,228	313	1,666
3. Twin Engine Piston Under 12,500 Lbs. TOGW	10,721	7,108	1,469	21	139	1,458	86	440
4. Twin Engine Piston Over 12,500 Lbs. TOGW	825	629	23	35	7	18	21	92
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	80	3	--	--	22	17	5	33
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	7	5	1	--	--	--	--	1
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	149	141	2	--	1	1	--	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	50	36	1	--	--	12	--	1
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	31	--	--	--	16	--	--	15
ROTARY WING								
12. Piston Engine	1,421	279	155	170	99	422	180	116
13. Turbine Engine	65	41	--	--	--	16	8	--
OTHER	1,203	36	958	28	124	5	6	46
TOTAL	100,598	21,885	54,429	5,657	8,615	5,381	1,198	3,433

Prepared by R. W. Simpson, March 31, 1976

Table 21

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1963**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	33,474	837	21,557	5,222	4,084	201	569	1,004
2. Single-Engine Piston 4 Place and Over	48,470	11,875	27,870	97	3,781	3,005	291	1,551
3. Twin Engine Piston Under 12,500 Lbs. TOGW	9,612	6,373	1,317	19	125	1,307	77	394
4. Twin Engine Piston Over 12,500 Lbs. TOGW	837	639	23	35	7	18	21	94
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	76	3	--	--	20	17	5	31
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	1	1	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	133	125	2	--	1	1	--	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	12	9	--	--	--	3	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	24	--	--	--	12	--	--	12
ROTARY WING								
12. Piston Engine	1,256	246	137	151	88	372	159	103
13. Turbine Engine	57	36	--	--	--	14	7	--
OTHER	1,218	37	970	28	125	5	6	47
TOTAL	95,170	20,181	51,876	5,552	8,243	4,943	1,135	3,240

Prepared by R. W. Simpson, March 31, 1976

Table 22

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1962**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	34,755	869	22,382	5,422	4,240	208	591	1,043
2. Single-Engine Piston 4 Place and Over	44,560	10,917	25,622	89	3,476	2,763	267	1,426
3. Twin Engine Piston Under 12,500 Lbs. TOGW	8,677	5,753	1,189	17	113	1,180	69	356
4. Twin Engine Piston Over 12,500 Lbs. TOGW	846	645	24	36	7	19	20	95
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	156	5	--	--	43	34	10	64
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	99	94	2	--	--	1	--	2
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	5	3	--	--	--	2	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	25	--	--	--	12	--	--	13
ROTARY WING								
12. Piston Engine	1,009	196	110	120	70	300	130	83
13. Turbine Engine	35	22	--	--	--	9	4	--
OTHER	791	24	630	18	81	3	4	31
TOTAL	90,958	18,528	49,959	5,702	8,042	4,519	1,095	3,113

Prepared by R. W. Simpson, March 31, 1976

Table 23

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1961**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	36,081	902	23,236	5,629	4,402	216	613	1,083
2. Single-Engine Piston 4 Place and Over	39,811	9,754	22,891	80	3,105	2,468	239	1,274
3. Twin Engine Piston Under 12,500 Lbs. TOGW	7,668	5,084	1,050	15	100	1,043	62	314
4. Twin Engine Piston Over 12,500 Lbs. TOGW	836	638	23	35	7	18	21	94
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	155	5	--	--	42	34	10	64
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	88	83	1	--	--	--	--	4
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	5	3	--	--	--	2	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	24	--	--	--	12	--	--	12
ROTARY WING								
12. Piston Engine	801	157	87	96	56	237	102	66
13. Turbine Engine	34	21	--	--	--	9	4	--
OTHER	650	20	517	15	66	3	4	25
TOTAL	86,153	16,667	47,805	5,870	7,790	4,030	1,055	2,936

Prepared by R. W. Simpson, March 31, 1976

Table 24

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1960**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	35,291	882	22,728	5,505	4,305	212	600	1,059
2. Single-Engine Piston 4 Place and Over	36,572	8,960	21,029	73	2,853	2,268	219	1,170
3. Twin Engine Piston Under 12,500 Lbs. TOGW	6,899	4,574	945	14	90	938	55	283
4. Twin Engine Piston Over 12,500 Lbs. TOGW	994	758	28	42	8	22	24	112
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	244	8	--	--	66	53	16	101
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	59	56	1	--	--	--	--	2
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	4	4	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	1	--	--	--	--	--	--	1
ROTARY WING								
12. Piston Engine	676	132	74	81	47	200	86	56
13. Turbine Engine	23	18	--	--	--	4	1	--
OTHER	684	21	544	16	70	3	3	27
TOTAL	81,447	15,413	45,349	5,731	7,439	3,700	1,004	2,811

Prepared by R. W. Simpson, March 31, 1976

Table 25

**AIRCRAFT - BY PRIMARY USE CATEGORY
CALENDAR YEAR 1959**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	35,721	893	23,004	5,572	4,358	214	607	1,073
2. Single-Engine Piston 4 Place and Over	30,206	7,400	17,368	60	2,356	1,873	182	967
3. Twin Engine Piston Under 12,500 Lbs. TOGW	8,238	5,462	1,129	16	107	1,120	66	338
4. Twin Engine Piston Over 12,500 Lbs. TOGW	1,261	962	35	53	10	28	31	142
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	238	8	--	--	64	52	16	98
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	31	29	1	--	--	--	--	1
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
ROTARY WING								
12. Piston Engine	585	115	64	70	40	174	74	48
13. Turbine Engine	16	15	--	--	--	1	--	--
OTHER	623	20	496	14	64	2	3	24
TOTAL	76,919	14,904	42,097	5,785	6,999	3,464	979	2,691

Prepared by R. W. Simpson, March 31, 1976

Table 26

**Aircraft Total Flight Hours
by
Calendar Year**

1959-1975

TOTAL HOURS IN SERVICE CALENDAR YEARS 1975 - 1959

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	7,619,087	7,714,035	7,364,404	7,456,552	2,145,922	6,952,149	9,962,742	10,326,339	6,876,247	6,456,845	4,843,648	4,767,076	4,696,785	4,876,464	5,062,501	4,951,572	5,012,038
2. Single Engine Piston 4 Place and Over	16,319,888	15,657,119	14,717,363	14,014,279	13,788,497	13,414,598	10,889,226	9,729,298	11,780,443	11,789,741	9,511,554	9,050,756	8,402,095	7,975,537	6,919,488	6,356,570	5,250,207
3. Twin Engine Piston Under 12,500 Lbs. TOGW	5,526,229	5,163,316	4,908,375	4,554,615	4,496,923	4,374,983	3,813,712	3,519,181	3,244,911	3,865,638	2,853,443	2,781,240	2,493,548	2,201,034	1,989,336	1,818,970	2,137,074
4. Twin Engine Piston Over 12,500 Lbs. TOGW	218,054	222,020	212,950	234,471	257,386	250,408	296,466	296,381	329,116	633,662	437,075	335,712	350,950	344,232	340,200	404,588	513,573
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	89,589	102,046	86,577	78,201	87,269	84,904	83,000	41,807	90,847	376,091	38,802	25,455	23,800	49,326	49,106	77,365	75,356
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	947,515	800,883	764,521	729,384	776,272	755,223	508,639	274,187	167,093	15,535	8,947	2,195	320	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	152,295	155,270	149,633	148,806	176,025	171,252	132,858	148,302	158,941	239,315	140,636	84,031	74,781	55,798	49,239	33,020	17,221
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	426,197	355,618	336,364	300,462	278,041	270,501	201,379	165,817	126,534	108,893	18,418	17,038	4,242	1,521	1,546	1,708	--
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	261,937	247,315	237,332	229,696	213,819	208,021	116,086	86,517	49,559	31,786	9,526	--	--	--	--	--	--
0. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	72,442	64,274	61,734	163,657	110,355	107,362	66,538	46,516	40,289	135,102	4,812	24,928	19,236	19,460	17,590	655	--
ROTARY WING																	
2. Piston Engine	750,793	657,688	628,093	583,956	585,380	569,508	614,013	523,708	467,773	528,886	419,934	454,942	407,955	325,724	256,537	216,329	187,268
3. Turbine Engine	475,529	347,486	331,660	294,224	278,814	271,255	218,584	129,390	31,820	18,203	3,120	25,204	22,087	13,862	13,404	7,940	4,704
OTHER	812,540	605,904	571,277	471,189	431,942	420,229	211,702	221,207	341,670	264,226	96,055	114,646	116,393	84,963	61,973	65,176	59,712
TOTAL	33,392,095	32,092,974	30,372,283	29,269,492	28,626,645	27,850,393	27,114,945	25,008,650	23,705,243	24,464,983	18,385,970	17,683,223	16,606,192	15,947,721	14,760,920	13,933,893	13,256,653

*Preliminary Data

Prepared by R. W. Simpson, March 27, 1976

Table 27

**BUSINESS/EXECUTIVE HOURS IN SERVICE
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	381,456	332,964	317,011	288,019	283,049	275,374	189,142	377,639	143,052	138,942	109,870	107,823	196,299	110,363	114,554	112,014	113,411
2. Single Engine Piston 4 Place and Over	5,355,328	4,647,456	3,581,330	3,540,782	3,529,437	3,433,730	2,302,554	2,173,806	2,446,435	2,623,565	2,381,601	2,270,924	2,113,750	1,943,226	1,736,212	1,594,880	1,317,200
3. Twin Engine Piston Under 12,500 Lbs. TOGW	3,360,433	3,279,861	3,085,653	2,944,036	2,877,413	2,799,387	2,137,531	2,013,693	2,028,729	2,631,673	1,975,263	1,926,268	1,727,083	1,509,121	1,377,764	1,239,554	1,460,202
4. Twin Engine Piston Over 12,500 Lbs. TOGW	111,447	119,960	126,312	138,396	144,347	140,433	201,918	193,330	225,344	448,853	321,723	244,681	248,571	250,905	248,182	294,862	374,218
5. Multi Engine Piston Over 12,500 Lbs. TOGW	3,996	1,499	2,719	4,015	4,728	4,600	6,630	9,995	15,422	86,681	1,123	843	843	1,499	1,405	2,248	2,228
6. Twin Engine Turbo-prop Under 12,500 Lbs. TOGW	686,012	581,210	554,916	459,506	404,494	393,526	256,419	188,200	119,344	15,365	8,379	1,563	320	---	---	---	---
7. Twin Engine Turbo-prop Over 12,500 Lbs. TOGW	144,192	147,313	141,935	139,994	166,657	162,138	125,901	137,542	149,750	228,837	130,577	79,383	70,375	52,922	46,729	31,528	16,327
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	361,746	318,600	304,401	260,967	237,057	230,629	167,236	141,219	107,714	93,165	17,945	15,372	3,841	1,281	1,281	1,708	---
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	245,939	239,999	230,299	222,645	206,925	201,314	108,728	81,431	48,549	31,286	9,526	---	---	---	---	---	---
10. Multi Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi Engine Turbojet/Fan Over 20,000 Lbs. TOGW	51,273	53,955	51,261	118,795	80,162	77,988	49,332	41,158	35,397	63,412	---	---	---	---	---	---	---
ROTARY WING																	
12. Piston Engine	119,016	93,531	89,319	76,749	74,376	72,359	64,997	62,835	60,825	77,448	74,654	80,910	71,340	56,840	45,530	38,780	33,350
13. Turbine Engine	114,330	92,121	87,671	76,007	75,428	73,383	64,383	44,177	11,981	6,200	1,342	10,988	9,648	5,890	5,628	4,824	4,040
OTHER	32,226	23,308	22,296	61,717	16,992	16,531	19,702	21,224	44,818	46,980	1,362	1,620	1,665	1,080	900	945	900
TOTAL	10,988,394	9,931,777	8,595,127	8,347,928	8,101,065	7,881,392	5,694,633	5,486,249	5,434,760	6,492,407	5,033,365	4,740,375	4,353,735	3,933,127	3,578,184	3,320,843	3,341,876

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 28

**PERSONAL HOURS IN SERVICE
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	2,133,124	2,225,319	2,124,906	2,069,560	1,966,480	1,913,156	2,568,673	2,763,992	1,905,046	1,733,304	1,709,143	1,684,606	1,659,889	1,723,414	1,789,172	1,750,056	1,771,308
2. Single Engine Piston 4 Place and Over	5,709,990	5,861,493	5,220,630	5,861,462	5,506,194	5,356,884	5,107,158	4,531,395	4,935,807	4,893,861	3,970,042	3,772,892	3,511,620	3,458,970	2,884,266	2,649,654	2,188,368
3. Twin Engine Piston Under 12,500 Lbs. TOGW	437,206	443,661	447,986	389,368	360,338	350,567	448,014	401,631	353,847	351,301	248,522	242,385	217,305	196,185	173,250	155,975	186,285
4. Twin Engine Piston Over 12,500 Lbs. TOGW	4,761	4,144	3,971	6,091	4,394	4,275	10,500	10,517	7,391	7,802	2,514	4,232	4,232	4,416	4,232	5,152	6,440
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	2,016	1,339	269	491	1,563	1,521	11,139	7,570	1,173	11,424	--	--	--	--	--	--	--
6. Twin Engine Turbo-prop Under 12,500 Lbs. TOGW	7,781	5,512	5,522	7,719	4,026	3,917	3,899	2,496	143	--	457	501	--	--	--	--	--
7. Twin Engine Turbo-prop Over 12,500 Lbs. TOGW	936	1,569	1,374	409	468	455	790	1,064	1,109	2,282	1,292	646	646	658	410	350	323
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	4,368	6,298	5,958	2,646	3,028	2,946	2,593	808	2,791	1,181	27	133	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	2,556	3,411	3,456	994	1,988	1,934	5,433	3,829	708	500	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	842	--	--	3,404	4,680	4,553	12,694	5,358	149	12,503	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	17,617	16,181	15,480	13,067	8,555	8,323	52,524	34,086	9,774	20,282	15,478	16,740	14,796	13,090	9,386	7,992	6,912
13. Turbine Engine	15,141	15,759	15,120	5,679	6,794	6,610	7,632	3,658	6,001	--	--	--	--	--	--	--	--
OTHER	327,317	243,480	232,545	202,398	176,022	171,249	73,913	100,605	116,261	88,078	68,994	83,946	84,390	64,260	44,979	47,328	43,152
TOTAL	8,863,455	8,828,166	9,077,217	8,563,288	8,044,530	7,826,390	8,304,962	7,867,009	7,340,200	6,922,518	6,016,409	5,805,281	5,482,878	5,480,993	4,905,705	4,616,457	4,202,788

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 29

AERIAL APPLICATION HOURS IN SERVICE CALENDAR YEARS 1975 - 1959

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	1,357,768	1,390,401	1,327,606	1,286,685	1,221,404	1,188,284	1,397,665	1,234,079	1,114,040	1,086,710	1,021,555	1,006,810	992,180	1,030,180	1,069,510	1,045,950	1,058,680
2. Single Engine Piston 4 Place and Over	33,495	33,001	33,089	34,144	27,840	27,085	21,129	20,061	18,571	14,615	15,436	18,408	17,168	15,753	14,160	12,921	10,620
3. Twin Engine Piston Under 12,500 Lbs. TOGW	29,498	23,616	21,973	21,337	19,882	19,343	5,989	6,559	6,268	375	4,687	4,116	3,724	3,332	2,940	2,744	3,136
4. Twin Engine Piston Over 12,500 Lbs. TOGW	17,804	21,111	19,548	11,626	12,002	11,677	9,236	7,555	6,659	8,165	3,071	5,845	5,803	6,012	5,845	7,014	8,851
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	4,810	5,066	5,785	3,868	4,237	4,122	3,517	2,930	3,068	1,181	1,095	---	---	---	---	---	---
6. Twin Engine Turboprop Under 12,500 Lbs. TOGW	1,169	360	389	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7. Twin Engine Turboprop Over 12,500 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	1,203	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	780	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ROTARY WING																	
12. Piston Engine	127,768	115,346	110,210	107,877	101,228	98,483	89,083	85,536	58,320	68,784	39,441	42,670	37,901	31,626	24,096	20,331	17,570
13. Turbine Engine	2,192	2,161	2,041	589	1,095	1,065	---	---	---	---	---	---	---	---	---	---	---
OTHER	37,352	25,873	24,380	9,543	19,688	19,155	1,427	813	361	295	558	711	1,064	588	481	384	336
TOTAL	1,613,630	1,616,935	1,545,021	1,475,679	1,407,337	1,369,214	1,527,656	1,357,543	1,207,287	1,180,125	1,085,853	1,078,560	1,057,841	1,087,491	1,117,032	1,089,344	1,099,193

*Preliminary Data

Prepared by R. W. Simons, March 31, 1976

Table 30

INSTRUCTION HOURS IN SERVICE CALENDAR YEARS 1975 - 1959

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	2,476,500	2,507,742	2,394,204	2,518,916	2,490,817	2,423,274	5,175,711	5,165,105	3,175,454	3,059,390	1,544,908	1,517,070	1,494,744	1,551,840	1,611,132	1,575,630	1,595,078
2. Single Engine Piston 4 Place and Over	2,478,240	2,457,311	2,344,816	2,224,893	2,289,748	2,208,200	1,888,490	1,539,056	2,783,199	2,726,168	1,601,173	1,531,374	1,425,437	1,310,452	1,170,565	1,075,581	888,212
3. Twin Engine Piston Under 12,500 Lbs. TOGW	202,797	192,368	183,833	165,242	155,957	151,728	169,942	129,196	72,883	52,465	34,685	33,777	30,375	27,459	24,300	21,870	26,001
4. Twin Engine Piston Over 12,500 Lbs. TOGW	2,394	2,267	1,788	3,608	3,892	3,884	4,085	3,765	2,195	7,029	6,236	2,240	2,600	2,240	2,240	2,560	3,200
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	70	--	--	--	9	9	--	820	2,787	173,408	14,850	10,208	9,280	19,952	19,488	30,624	29,896
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	1,080	--	--	827	936	911	2,308	680	1,278	--	--	--	--	--	--	--	--
7. Twin Engine Turboprop Over 12,500 Lbs. TOGW	--	--	--	--	--	--	--	2,806	--	920	1,022	622	655	--	--	--	--
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	840	--	210	--	--	1,029	1,741	1,263	11,470	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	1,460	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	4,743	58,631	2,651	14,128	10,596	10,100	9,390	--	--	--
ROTARY WING																	
12. Piston Engine	41,004	39,364	37,788	27,442	17,868	17,384	54,685	43,227	20,165	29,469	25,347	27,324	24,788	19,002	15,456	12,912	11,000
13. Turbine Engine	1,554	295	222	774	--	--	--	--	--	--	--	--	--	--	--	--	--
OTHER	75,988	56,718	54,210	29,908	40,247	38,156	52,792	46,380	93,628	37,021	16,707	20,336	20,521	13,284	10,824	11,480	10,496
TOTAL	5,281,927	5,256,065	5,017,071	4,970,611	4,979,574	4,844,546	7,349,042	6,932,716	6,157,595	6,155,971	3,247,579	3,157,079	3,018,496	2,854,329	2,863,415	2,780,717	2,563,633

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 31

AIR TAXI HOURS IN SERVICE CALENDAR YEARS 1975 - 1959

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	31,652	30,302	28,861	32,562	29,729	28,923	72,325	156,996	117,265	25,585	50,077	52,632	51,858	53,664	55,728	54,696	55,212
2. Single Engine Piston 4 Place and Over	738,400	736,736	703,456	670,885	731,649	711,809	913,398	862,428	889,053	1,076,263	1,028,810	974,856	907,510	834,426	745,336	684,936	565,646
3. Twin Engine Piston Under 12,500 Lbs. TOGW	1,236,284	992,873	948,760	837,327	875,786	852,038	835,354	768,976	602,132	666,785	474,474	460,728	413,012	372,880	329,588	296,408	353,920
4. Twin Engine Piston Over 12,500 Lbs. TOGW	37,589	6,340	6,340	11,867	10,407	10,125	2,773	4,462	3,943	10,595	20,079	15,048	15,198	15,884	15,041	18,392	23,408
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	73,538	87,714	71,721	60,481	67,339	65,513	26,184	1,196	21,658	2,180	5,268	3,451	3,301	6,902	6,909	10,759	10,556
6. Twin Engine Turbo-prop Under 12,500 Lbs. TOGW	236,280	204,961	195,263	247,393	346,903	337,496	232,913	74,768	38,966	---	---	---	---	---	---	---	---
7. Twin Engine Turbo-prop Over 12,500 Lbs. TOGW	1,842	5,500	5,526	8,037	7,874	7,661	---	1,458	---	931	776	720	821	776	---	---	---
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	48,459	25,255	23,394	23,398	26,173	25,463	27,469	19,800	11,289	---	444	1,440	401	240	265	---	---
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	6,180	1,631	2,130	2,695	440	428	---	---	---	---	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	---	---	---	---	---	---	607	---	---	---	---	---	---	---	---	---	---
ROTARY WING																	
12. Piston Engine	175,644	190,400	181,832	210,373	226,521	220,379	200,717	180,302	180,520	178,245	188,176	182,726	161,076	129,900	102,621	86,600	75,342
13. Turbine Engine	218,499	149,872	143,266	143,985	125,661	122,254	77,907	43,220	10,141	8,971	1,329	10,624	9,296	5,976	5,976	2,656	664
OTHER	135,031	103,333	98,277	69,926	71,139	69,210	4,496	2,083	14,952	14,411	2,207	1,250	1,250	706	903	750	500
TOTAL	2,539,478	2,534,917	2,408,826	2,318,949	2,519,621	2,451,299	2,394,143	2,115,659	1,889,939	1,983,966	1,751,640	1,703,475	1,563,723	1,421,354	1,262,367	1,155,197	1,085,248

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 32

**INDUSTRIAL/SPECIAL HOURS IN SERVICE
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	234,214	243,900	233,216	244,018	260,723	253,653	45,170	45,692	37,313	46,067	181,975	180,069	176,959	183,801	190,643	186,600	188,777
2. Single Engine Piston 4 Place and Over	325,937	304,803	291,001	257,802	271,262	263,906	32,309	28,950	24,231	23,280	103,995	97,656	68,326	83,304	74,568	68,328	56,784
3. Twin Engine Piston Under 12,500 Lbs. TOGW	85,284	98,532	93,810	82,609	91,172	88,700	19,778	13,515	13,220	11,719	22,664	22,446	20,097	18,009	16,182	43,605	17,226
4. Twin Engine Piston Over 12,500 Lbs. TOGW	21,165	25,792	21,165	33,414	44,042	42,848	21,311	18,838	4,807	2,612	15,500	12,054	21,812	11,480	12,054	13,776	17,794
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	1,183	865	940	1,923	2,371	2,307	4,820	1,327	188	4,372	2,428	1,515	1,510	3,082	3,000	4,848	4,848
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	2,280	689	788	340	5,928	5,767	--	--	--	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	4,719	388	313	188	429	417	--	--	--	--	--	--	--	--	--	--	--
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	613	596	--	--	--	--	--	--	--	--	--	--	--
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	3,059	1,311	510	385	437	425	266	--	--	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	3,905	--	--	--	--	--	--	--	--	--	--
ROTARY WING																	
12. Piston Engine	216,828	156,943	149,624	129,133	132,718	129,119	33,996	37,852	50,538	38,849	61,269	66,060	58,358	47,710	37,520	31,562	27,158
13. Turbine Engine	15,210	53,828	51,480	40,982	43,752	42,566	9,983	4,393	--	--	449	3,592	3,143	1,796	1,800	460	--
OTHER	73,632	56,222	47,082	23,546	38,744	37,693	485	417	8,339	5,296	493	621	594	488	385	320	300
TOTAL	983,511	943,273	889,929	814,340	892,191	867,997	171,767	151,250	138,436	132,195	388,773	384,013	350,801	349,670	336,152	349,499	312,887

*Preliminary Data

Table 33

Prepared by R. W. Simpson, March 31, 1976

RENTAL HOURS IN SERVICE CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969**	1968**	1967**	1966**	1965**	1964**	1963**	1962**	1961**	1960**	1959**
FIXED WING																	
1. Single Engine Piston 1 to 3 Seat	840,112	886,319	827,008	763,022	767,079	746,278	---	---	---	---	---	---	---	---	---	---	---
2. Single Engine Piston 4 Place and Over	1,528,554	1,455,888	1,389,781	1,285,180	1,299,602	1,264,361	---	---	---	---	---	---	---	---	---	---	---
3. Twin Engine Piston Under 12,500 Lbs. TOGW	105,324	89,704	85,760	76,462	70,673	68,757	---	---	---	---	---	---	---	---	---	---	---
4. Twin Engine Piston Over 12,500 Lbs. TOGW	6,012	11,523	7,830	5,700	6,828	6,643	---	---	---	---	---	---	---	---	---	---	---
5. Multi Engine Piston Over 12,500 Lbs. TOGW	1,600	1,200	1,132	646	567	552	---	---	---	---	---	---	---	---	---	---	---
6. Twin Engine Turbo-prop Under 12,500 Lbs. TOGW	3,465	1,313	1,263	1,959	1,492	1,452	---	---	---	---	---	---	---	---	---	---	---
7. Twin Engine Turbo-prop Over 12,500 Lbs. TOGW	---	---	---	---	190	185	---	---	---	---	---	---	---	---	---	---	---
8. Twin Engine Turbojet/Fan Under 20,000 Lbs. TOGW	335	303	381	---	335	326	---	---	---	---	---	---	---	---	---	---	---
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	720	---	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10. Multi Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi Engine Turbojet/Fan Over 20,000 Lbs. TOGW	3,531	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ROTARY WING																	
12. Piston Engine	8,274	12,917	12,608	5,185	7,487	7,294	---	---	---	---	---	---	---	---	---	---	---
13. Turbine Engine	3,195	4,289	3,861	2,175	2,482	2,415	---	---	---	---	---	---	---	---	---	---	---
OTHER	60,354	43,970	42,169	35,617	32,061	31,192	---	---	---	---	---	---	---	---	---	---	---
TOTAL	2,561,476	2,467,426	2,372,313	2,175,946	2,188,806	2,129,455	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Primary Data
** Rental activity cannot be separately identified for 1968 and prior years

Prepared by R. W. Simpson, March 31, 1976

Table 34

**OTHER HOURS IN SERVICE
CALENDAR YEARS 1975 - 1959**

	1975*	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
FIXED WING																	
1. Single Engine Piston 1 to 3 Seats	224,220	117,088	111,582	243,750	126,641	123,207	514,056	582,866	384,057	366,847	226,120	218,066	214,856	273,202	231,762	226,626	229,622
2. Single Engine Piston 4 Place and Over	209,944	160,431	152,260	139,131	152,765	148,623	624,188	573,602	683,147	631,989	410,487	384,846	358,281	329,406	294,361	270,270	223,377
3. Twin Engine Piston Under 12,500 Lbs. TOGW	49,403	42,601	40,600	38,234	45,702	44,463	197,084	185,601	167,932	151,320	93,138	91,520	81,952	74,048	65,312	58,864	70,304
4. Twin Engine Piston Over 12,500 Lbs. TOGW	17,072	30,883	25,986	23,769	31,374	30,523	46,583	58,414	78,977	148,606	67,952	51,612	52,734	53,295	52,606	62,832	79,662
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	2,376	4,363	4,011	6,777	6,455	6,280	30,710	17,969	46,551	96,845	14,038	9,438	8,866	17,891	18,304	28,886	28,028
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	7,448	6,838	6,380	11,640	12,493	12,154	13,100	8,043	7,362	170	111	131	---	---	---	---	---
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	606	500	481	178	407	396	6,167	5,432	8,082	6,405	6,969	2,660	2,284	1,442	2,100	1,142	571
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	10,449	5,162	5,020	7,451	10,835	10,541	2,552	2,249	3,477	4,077	2	93	---	---	---	---	---
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	840	963	417	2,677	4,029	3,820	2,525	991	302	---	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	16,016	10,319	10,473	41,458	25,513	24,821	---	---	---	556	2,161	10,800	8,640	9,360	8,200	655	---
ROTARY WING																	
12. Piston Engine	44,652	33,006	31,232	24,130	16,617	16,167	118,011	79,870	87,631	115,809	35,589	38,512	34,196	27,556	21,918	18,592	15,936
13. Turbine Engine	105,408	29,161	27,959	24,023	23,602	22,962	58,468	33,942	3,797	3,032	---	---	---	---	---	---	---
OTHER	70,840	53,100	50,318	39,533	37,048	36,043	59,287	49,685	66,311	72,145	5,734	6,762	6,909	4,557	3,501	3,969	3,528
TOTAL	759,274	494,415	467,779	602,751	493,481	480,100	1,672,742	1,598,664	1,537,526	1,597,801	862,291	814,440	768,718	740,757	698,064	671,836	651,028

*Preliminary Data

Prepared by R. W. Simpson, March 31, 1976

Table 35

Aircraft Flight Hours By Primary Use by Calendar Year

1959-1975

**HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1975***

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single Engine Piston 1 to 3 Seat	7,679,087	381,456	2,133,124	1,357,769	2,476,500	31,692	234,214	840,112	224,220
2. Single Engine Piston 4 Place and Over	16,379,888	5,355,328	5,709,990	33,495	2,478,240	738,400	325,937	1,528,554	209,944
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	5,526,229	3,380,433	437,206	29,498	202,797	1,236,284	85,284	105,324	49,403
4. Twin Engine Piston Over 12,500 Lbs. TOGW	218,054	111,447	4,761	17,604	2,394	37,599	21,165	6,012	17,072
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	89,589	3,996	2,016	4,810	70	73,538	1,183	1,600	2,376
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	947,515	688,012	7,781	1,169	1,080	236,280	2,280	3,465	7,448
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	152,295	144,192	936	--	--	1,842	4,719	--	606
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	426,197	361,746	4,368	--	840	48,459	--	335	10,449
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	261,937	245,939	2,556	1,203	1,460	6,160	3,059	720	840
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	72,442	51,273	842	780	--	--	--	3,531	16,016
ROTARY WING									
12. Piston Engine	750,793	119,016	17,617	127,758	41,004	175,644	216,828	8,274	44,652
13. Turbine Engine	475,529	114,330	15,141	2,192	1,554	218,499	15,210	3,195	105,408
OTHER	812,540	32,226	327,117	37,352	75,988	135,031	73,632	60,354	70,840
TOTAL	33,792,095	10,989,394	8,663,455	1,613,630	5,281,927	2,939,428	983,511	2,561,476	759,274

Prepared by: R. W. Simpson, March 31, 1976

*Preliminary Data

Table 36

**HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1974**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	7,714,035	332,964	2,225,319	1,390,401	2,507,742	30,302	243,900	866,319	117,088
2. Single-Engine Piston 4 Place and Over	15,657,119	4,647,456	5,861,493	33,001	2,457,311	736,736	304,803	1,455,888	160,431
3. Twin Engine Piston Under 12,500 Lbs. TOGW	5,163,316	3,279,861	443,661	23,616	192,368	992,873	98,532	89,704	42,601
4. Twin Engine Piston Over 12,500 Lbs. TOGW	222,020	119,960	4,144	21,111	2,267	6,340	25,792	11,523	30,883
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	102,046	1,499	1,339	5,066	--	87,714	865	1,200	4,363
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	800,883	581,210	5,512	360	--	204,961	689	1,313	6,838
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	155,270	147,313	1,569	--	--	5,500	388	--	500
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	355,618	318,600	6,298	--	--	25,255	--	303	5,162
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	247,315	239,999	3,411	--	--	1,631	1,311	--	963
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	64,274	53,955	--	--	--	--	--	--	10,319
ROTARY WING									
12. Piston Engine	657,688	93,531	16,181	115,346	39,364	190,400	156,943	12,917	33,006
13. Turbine Engine	347,486	92,121	15,759	2,161	295	149,872	53,828	4,289	29,161
OTHER	605,904	23,308	243,480	25,873	56,718	103,333	56,222	43,970	53,100
TOTAL	32,092,974	9,931,777	8,828,166	1,616,935	5,256,065	2,534,917	943,273	2,487,426	494,415

Prepared by R. W. Simpson, March 31, 1976

Table 37

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1973

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	7,364,404	317,011	2,124,906	1,327,606	2,394,204	28,861	233,216	827,008	111,592
2. Single-Engine Piston 4 Place and Over	14,717,363	3,581,330	6,220,630	33,089	2,344,816	703,456	291,001	1,389,781	153,260
3. Twin Engine Piston Under 12,500 Lbs. TOGW	4,908,375	3,085,653	447,986	21,973	183,833	948,760	93,810	85,760	40,600
4. Twin Engine Piston Over 12,500 Lbs. TOGW	212,950	126,312	3,971	19,548	1,788	6,340	21,165	7,830	25,996
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	86,577	2,719	269	5,785	--	71,721	940	1,132	4,011
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	764,521	554,916	5,522	389	--	195,263	788	1,263	6,380
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	149,633	141,939	1,374	--	--	5,526	313	--	481
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	339,364	304,401	5,958	--	210	23,394	--	381	5,020
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	237,332	230,299	3,456	--	--	2,130	510	520	417
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	61,734	51,261	--	--	--	--	--	--	10,473
ROTARY WING									
12. Piston Engine	628,093	89,319	15,480	110,210	37,788	181,832	149,624	12,608	31,232
13. Turbine Engine	331,660	87,671	15,120	2,041	222	143,266	51,480	3,861	27,999
OTHER	571,277	22,296	232,545	24,380	54,210	98,277	47,082	42,169	50,318
TOTAL	30,373,283	8,595,127	9,017,217	1,545,021	5,017,071	2,408,826	889,929	2,372,313	467,779

Prepared by R. W. Simpson, March 31, 1976

Table 38

**HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1972**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	7,456,552	298,019	2,069,560	1,286,685	2,518,916	32,582	244,018	763,022	243,750
2. Single-Engine Piston 4 Place and Over	14,014,279	3,540,782	5,861,462	34,144	2,224,893	670,885	257,802	1,285,180	139,131
3. Twin Engine Piston Under 12,500 Lbs. TOGW	4,554,615	2,944,036	389,368	21,337	165,242	837,327	82,609	76,462	38,234
4. Twin Engine Piston Over 12,500 Lbs. TOGW	234,471	138,396	6,091	11,626	3,608	11,867	33,414	5,700	23,769
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	78,201	4,015	491	3,868	--	60,481	1,923	646	6,777
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	729,384	459,506	7,719	--	827	247,393	340	1,959	11,640
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	148,806	139,994	409	--	--	8,037	188	--	178
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	300,462	266,967	2,646	--	--	23,398	--	--	7,451
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	229,696	222,945	994	--	--	2,695	385	--	2,677
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	163,657	118,795	3,404	--	--	--	--	--	41,458
ROTARY WING									
12. Piston Engine	593,956	76,749	13,067	107,877	27,442	210,373	129,133	5,185	24,130
13. Turbine Engine	294,224	76,007	5,679	599	774	143,985	40,982	2,175	24,023
OTHER	471,189	61,717	202,398	9,543	28,909	69,926	23,546	35,617	39,533
TOTAL	29,269,492	8,347,928	8,563,288	1,475,679	4,970,611	2,318,949	814,340	2,175,946	602,751

Prepared by R. W. Simpson, March 31, 1976

Table 39

**HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1971**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	7,145,922	283,049	1,966,480	1,221,404	2,490,817	29,729	260,723	767,079	126,641
2. Single-Engine Piston 4 Place and Over	13,788,497	3,529,437	5,506,194	27,840	2,269,748	731,649	271,262	1,299,602	152,765
3. Twin Engine Piston Under 12,500 Lbs. TOGW	4,496,923	2,877,413	360,338	19,882	155,957	875,786	91,172	70,673	45,702
4. Twin Engine Piston Over 12,500 Lbs. TOGW	257,386	144,347	4,394	12,002	3,992	10,407	44,042	6,828	31,374
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	87,269	4,728	1,563	4,237	9	67,339	2,371	567	6,455
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	776,272	404,494	4,026	---	936	346,903	5,928	1,492	12,493
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	176,025	166,657	468	---	---	7,874	429	190	407
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	278,041	237,057	3,028	---	---	26,173	613	335	10,835
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	213,819	206,925	1,888	---	---	440	437	---	4,029
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	110,355	80,162	4,680	---	---	---	---	---	25,513
ROTARY WING									
12. Piston Engine	585,380	74,376	8,555	101,228	17,868	226,521	132,718	7,497	16,617
13. Turbine Engine	278,814	75,428	6,794	1,095	---	125,661	43,752	2,482	23,602
OTHER	431,942	16,992	176,022	19,689	40,247	71,139	38,744	32,061	37,048
TOTAL	28,626,645	8,101,065	8,044,530	1,407,377	4,979,574	2,519,621	892,191	2,188,806	493,481

Prepared by R. W. Simpson, March 31, 1976

Table 40

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1970

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	6,952,149	275,374	1,913,156	1,188,284	2,423,274	28,923	253,653	746,278	123,207
2. Single-Engine Piston 4 Place and Over	13,414,598	3,433,730	5,356,884	27,085	2,208,200	711,809	263,906	1,264,361	148,623
3. Twin Engine Piston Under 12,500 Lbs. TOGW	4,374,983	2,799,387	350,567	19,343	151,728	852,038	88,700	68,757	44,463
4. Twin Engine Piston Over 12,500 Lbs. TOGW	250,408	140,433	4,275	11,677	3,884	10,125	42,848	6,643	30,523
5. Multi-Engine Piston Over 12,500 lbs. TOGW	84,904	4,600	1,521	4,122	9	65,513	2,307	552	6,280
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	755,223	393,526	3,917	---	911	337,496	5,767	1,452	12,154
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	171,252	162,138	455	---	---	7,661	417	185	396
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	270,501	230,629	2,946	---	---	25,463	596	326	10,541
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	208,021	201,314	1,934	---	---	428	425	---	3,920
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	107,362	77,988	4,553	---	---	---	---	---	24,821
ROTARY WING									
12. Piston Engine	569,508	72,359	8,323	98,483	17,384	220,379	129,119	7,294	16,167
13. Turbine Engine	271,255	73,383	6,610	1,065	---	122,254	42,566	2,415	22,962
OTHER	420,229	16,531	171,249	19,155	39,156	69,210	37,693	31,192	36,043
TOTAL	27,850,393	7,881,392	7,826,390	1,369,214	4,844,546	2,451,299	867,997	2,129,455	480,100

Prepared by R. W. Simpson, March 31, 1976

Table 41

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1969

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single Engine Piston 1 To 3 Seat	9,962,742	189,142	2,568,673	1,397,665	5,175,711	72,325	45,170	--	514,056
2. Single Engine Piston 4 Place and Over	10,889,226	2,302,554	5,107,158	21,129	1,888,490	913,398	32,309	--	624,188
3. Twin Engine Piston Under 12,500 Lbs. TOGW	3,813,712	2,137,551	448,014	5,999	169,942	835,354	19,778	--	197,094
4. Twin Engine Piston Over 12,500 Lbs. TOGW	296,466	201,978	10,500	9,236	4,085	2,773	21,311	--	46,583
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	83,000	6,630	11,139	3,517	--	26,184	4,820	--	30,710
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	508,639	256,419	3,899	--	2,308	232,913	--	--	13,100
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	132,858	125,901	790	--	--	--	--	--	6,167
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	201,379	167,736	2,593	--	1,029	27,469	--	--	2,552
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	116,086	108,128	5,433	--	--	--	--	--	2,525
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	66,538	49,332	12,694	--	--	607	3,905	--	--
ROTARY WING									
12. Piston Engine	614,013	64,997	52,524	89,083	54,685	200,717	33,896	--	118,011
13. Turbine Engine	218,584	64,583	7,632	--	--	77,907	9,993	--	58,469
OTHER	211,702	19,702	73,913	1,027	52,792	4,496	485	--	59,287
TOTAL	27,114,945	5,694,633	8,304,962	1,527,656	7,349,042	2,394,143	171,767	--	1,672,742

Prepared by R. W. Simpson, March 31, 1976

Table 42

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1968

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	10,326,339	377,639	2,763,992	1,234,079	5,165,105	156,966	45,692	--	582,866
2. Single-Engine Piston 4 Place and Over	9,729,298	2,173,806	4,531,395	20,061	1,539,056	862,428	28,950	--	573,602
3. Twin Engine Piston Under 12,500 Lbs. TOGW	3,519,181	2,013,693	401,631	6,569	129,196	768,976	13,515	--	185,601
4. Twin Engine Piston Over 12,500 Lbs. TOGW	296,381	193,330	10,517	7,555	3,265	4,462	18,838	--	58,414
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	41,807	9,995	7,570	2,930	820	1,196	1,327	--	17,969
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	274,187	188,200	2,496	--	680	74,768	--	--	8,043
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	148,302	137,542	1,064	--	2,806	1,458	--	--	5,432
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	165,817	141,219	808	--	1,741	19,800	--	--	2,249
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	86,517	81,431	3,829	--	--	--	266	--	991
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	46,516	41,158	5,358	--	--	--	--	--	--
ROTARY WING									
12. Piston Engine	523,708	62,835	34,086	85,536	43,227	180,302	37,852	--	79,870
13. Turbine Engine	129,390	44,177	3,658	--	--	43,220	4,393	--	33,942
OTHER	221,207	21,224	100,605	813	46,380	2,083	417	--	49,685
TOTAL	25,508,650	5,486,249	7,867,009	1,357,543	6,932,276	2,115,659	151,250	--	1,598,664

Prepared by R. W. Simpson, March 31, 1976

Table 43

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1967

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	6,876,247	143,052	1,905,046	1,114,040	3,175,454	117,285	37,313	--	384,057
2. Single-Engine Piston 4 Place and Over	11,780,443	2,446,435	4,935,807	18,571	2,783,199	889,053	24,231	--	683,147
3. Twin Engine Piston Under 12,500 Lbs. TOGW	3,244,911	2,028,729	353,847	6,268	72,883	602,132	13,220	--	167,832
4. Twin Engine Piston Over 12,500 Lbs. TOGW	329,116	225,344	7,391	6,659	2,195	3,943	4,607	--	78,977
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	90,847	15,422	1,173	3,068	2,787	21,658	188	--	46,551
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	167,093	119,344	143	--	1,278	38,966	--	--	7,362
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	158,941	149,750	1,109	--	--	--	--	--	8,082
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	26,534	107,714	2,791	--	1,263	11,289	--	--	3,477
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	49,559	48,549	708	--	--	--	--	--	302
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	40,289	35,397	149	--	4,743	--	--	--	--
ROTARY WING									
12. Piston Engine	467,773	60,825	9,774	58,320	20,165	180,520	50,538	--	87,631
13. Turbine Engine	31,820	11,881	6,001	--	--	10,141	--	--	3,797
OTHER	341,670	41,818	116,261	361	93,628	14,952	8,339	--	66,311
TOTAL	23,705,243	5,434,260	7,340,200	1,207,287	6,157,595	1,889,939	138,436	--	1,537,526

Prepared by R. W. Simpson, March 31, 1976

Table 44

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1966

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	6,456,845	138,942	1,733,304	1,086,710	3,059,390	25,585	46,067	---	366,847
2. Single-Engine Piston 4 Place and Over	11,789,741	2,623,565	4,693,861	14,615	2,726,168	1,076,263	23,280	---	631,989
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	3,865,638	2,631,673	351,301	375	52,465	666,785	11,719	---	151,320
4. Twin-Engine Piston Over 12,500 Lbs. TOGW	633,662	448,853	7,802	8,165	7,029	10,595	2,612	---	148,606
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	376,091	86,681	11,424	1,181	173,408	2,180	4,372	---	96,845
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	15,535	15,365	---	---	---	---	---	---	170
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	239,375	228,837	2,282	---	920	931	---	---	6,405
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	109,893	93,165	1,181	---	11,470	---	---	---	4,077
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	31,786	31,286	500	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	135,102	63,412	12,503	---	58,631	---	---	---	556
ROTARY WING									
12. Piston Engine	528,886	77,448	20,282	68,784	29,469	178,245	38,849	---	115,809
13. Turbine Engine	18,203	6,200	---	---	---	8,971	---	---	3,032
OTHER	264,226	46,980	88,078	295	37,021	14,411	5,296	---	72,145
TOTAL	24,464,983	6,492,407	6,922,518	1,180,125	6,155,971	1,983,966	132,195	---	1,597,801

Prepared by R. W. Simpson, March 31, 1976

Table 45

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1965

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	RENTAL	OTHER
FIXED WING									
1. Single-Engine Piston 1 to 3 Seat	4,843,648	109,870	1,709,143	1,021,555	1,544,908	50,077	181,975	---	226,120
2. Single-Engine Piston 4 Place and Over	9,511,554	2,381,601	3,970,042	15,436	1,601,173	1,028,810	103,995	---	410,497
3. Twin Engine Piston Under 12,500 Lbs. TOGW	2,853,443	1,975,263	248,522	4,697	34,685	474,474	22,664	---	93,138
4. Twin Engine Piston Over 12,500 Lbs. TOGW	437,075	321,723	2,514	3,071	6,236	20,079	15,500	---	67,952
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	38,802	1,123	---	1,095	14,950	5,268	2,428	---	14,038
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	8,947	8,379	457	---	---	---	---	---	111
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	140,636	130,577	1,292	---	1,022	776	---	---	6,969
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	18,418	17,945	27	---	---	444	---	---	2
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	9,526	9,526	---	---	---	---	---	---	---
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	---	---	---	---	---	---	---	---	---
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	4,812	---	---	---	2,651	---	---	---	2,161
ROTARY WING									
12. Piston Engine	419,934	74,654	15,478	39,441	25,347	168,176	61,269	---	35,569
13. Turbine Engine	3,120	1,342	---	---	---	1,329	449	---	---
OTHER	96,055	1,362	68,994	558	16,707	2,207	493	---	5,734
TOTAL	18,385,970	5,033,365	6,016,469	1,085,853	3,247,579	1,751,640	388,773	---	862,291

Prepared by R. W. Simpson, March 31, 1976

Table 46

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1964

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	4,767,076	107,823	1,684,606	1,006,810	1,517,070	52,632	180,069	218,066
2. Single-Engine Piston 4 Place and Over	9,050,756	2,270,924	3,772,692	18,408	1,531,374	974,856	97,656	384,846
3. Twin-Engine Piston Under 12,500 Lbs. TOGW	2,781,240	1,926,288	242,385	4,116	33,777	460,728	22,446	91,520
4. Twin-Engine Piston Over 12,500 Lbs. TOGW	335,712	244,681	4,232	5,845	2,240	15,048	12,054	51,612
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	25,455	843	--	--	10,208	3,451	1,515	9,438
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	2,195	1,563	501	--	--	--	--	131
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	84,031	79,383	646	--	622	720	--	2,660
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	17,038	15,372	133	--	--	1,440	--	93
9. Twin-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	24,928	--	--	--	14,128	--	--	10,800
ROTARY WING								
12. Piston Engine	454,942	80,910	16,740	42,670	27,324	182,726	66,060	38,512
13. Turbine Engine	25,204	10,988	--	--	--	10,624	3,592	--
OTHER	114,646	1,620	83,346	711	20,336	1,250	621	6,762
TOTAL	17,683,223	4,740,375	5,805,281	1,078,560	3,157,079	1,703,475	384,013	814,440

Prepared by R. W. Simpson, March 31, 1976

Table 47

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1963

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	4,696,785	106,299	1,659,889	992,180	1,494,744	51,858	176,959	214,856
2. Single-Engine Piston 4 Place and Over	8,402,095	2,113,750	3,511,620	17,169	1,425,437	907,510	68,328	358,281
3. Twin Engine Piston Under 12,500 Lbs. TOGW	2,493,548	1,727,083	217,305	3,724	30,375	413,012	20,097	81,952
4. Twin Engine Piston Over 12,500 Lbs. TOGW	350,950	248,571	4,232	5,803	2,600	15,198	21,812	52,734
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	23,800	843	--	--	9,280	3,301	1,510	8,866
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	320	320	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	74,781	70,375	646	--	655	821	--	2,284
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	4,242	3,841	--	--	--	401	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	19,236	--	--	--	10,596	--	--	8,640
ROTARY WING								
12. Piston Engine	401,955	71,340	14,796	37,901	24,288	161,076	58,358	34,196
13. Turbine Engine	22,087	9,648	--	--	--	9,296	3,143	--
OTHER	116,393	1,665	84,390	1,064	20,521	1,250	594	6,909
TOTAL	16,606,192	4,353,735	5,492,878	1,057,841	3,018,496	1,563,723	350,801	768,718

Prepared by R. W. Simpson, March 31, 1976

Table 48

HOURS OF SERVICE BY USE CATEGORY CALENDAR YEAR 1962

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	4,876,464	110,363	1,723,414	1,030,180	1,551,840	53,664	183,801	223,202
2. Single-Engine Piston 4 Place and Over	7,975,537	1,943,226	3,458,970	15,753	1,310,452	834,426	83,304	329,406
3. Twin Engine Piston Under 12,500 Lbs. TOGW	2,201,034	1,509,121	196,185	3,332	27,459	372,880	18,009	74,048
4. Twin Engine Piston Over 12,500 Lbs. TOGW	344,232	250,905	4,416	6,012	2,240	15,884	11,480	53,295
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	49,326	1,499	--	--	19,952	6,902	3,082	17,891
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	55,798	52,922	658	--	--	776	--	1,442
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	1,521	1,281	--	--	--	240	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	19,460	--	--	--	10,100	--	--	9,360
ROTARY WING								
12. Piston Engine	325,724	56,840	13,090	31,626	19,002	129,900	47,710	27,556
13. Turbine Engine	13,662	5,890	--	--	--	5,976	1,796	--
OTHER	84,963	1,080	64,260	588	13,284	706	488	4,557
TOTAL	15,947,721	3,933,127	5,460,993	1,087,491	2,954,329	1,421,354	349,670	740,757

Prepared by R. W. Simpson, March 31, 1976

Table 49

**HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1961**

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	5,062,501	114,554	1,789,172	1,069,510	1,611,132	55,728	190,643	231,762
2. Single-Engine Piston 4 Place and Over	6,919,488	1,736,212	2,884,266	14,160	1,170,585	745,336	74,568	294,361
3. Twin Engine Piston Under 12,500 Lbs. TOGW	1,989,336	1,377,764	173,250	2,940	24,300	329,588	16,182	65,312
4. Twin Engine Piston Over 12,500 Lbs. TOGW	340,200	248,182	4,232	5,845	2,240	15,041	12,054	52,606
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	49,106	1,405	--	--	19,488	6,909	3,000	18,304
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	49,239	46,729	410	--	--	--	--	2,100
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	1,546	1,281	--	--	--	265	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	17,590	--	--	--	9,390	--	--	8,200
ROTARY WING								
12. Piston Engine	256,537	45,530	9,396	24,096	15,456	102,621	37,520	21,918
13. Turbine Engine	13,404	5,628	--	--	--	5,976	1,800	--
OTHER	61,973	900	44,979	481	10,824	903	385	3,501
TOTAL	14,760,920	3,578,185	4,905,705	1,117,032	2,863,415	1,262,367	336,152	698,064

Prepared by R. W. Simpson, March 31, 1976

Table 50

HOURS OF SERVICE BY USE CATEGORY CALENDAR YEAR 1960

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	4,951,572	112,014	1,750,056	1,045,950	1,575,630	54,696	186,600	226,626
2. Single-Engine Piston 4 Place and Over	6,356,570	1,594,880	2,649,654	12,921	1,075,581	684,936	68,328	270,270
3. Twin Engine Piston Under 12,500 Lbs. TOGW	1,818,970	1,239,554	155,925	2,744	21,870	296,408	43,605	58,864
4. Twin Engine Piston Over 12,500 Lbs. TOGW	404,588	294,862	5,152	7,014	2,560	18,392	13,776	62,832
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	77,365	2,248	--	--	30,624	10,759	4,848	28,886
6. Twin-Engine Turbo-prop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turbo-prop Over 12,500 Lbs. TOGW	33,020	31,528	350	--	--	--	--	1,142
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	1,708	1,708	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	655	--	--	--	--	--	--	655
ROTARY WING								
12. Piston Engine	216,329	38,280	7,992	20,331	12,972	86,600	31,562	18,592
13. Turbine Engine	7,940	4,824	--	--	--	2,656	460	--
OTHER	65,176	945	47,328	384	11,480	750	320	3,969
TOTAL	13,933,893	3,320,843	4,616,457	1,089,344	2,730,717	1,155,197	349,499	671,836

Prepared by R. W. Simpson, March 31, 1976

Table 51

HOURS OF SERVICE BY USE CATEGORY
CALENDAR YEAR 1959

	TOTAL	BUSINESS/ EXECUTIVE	PERSONAL	AERIAL APPLICATION	INSTRUCTION	TAXI	INDUSTRIAL/ SPECIAL	OTHER
FIXED WING								
1. Single-Engine Piston 1 to 3 Seat	5,012,038	113,411	1,771,308	1,058,680	1,595,028	55,212	188,777	229,622
2. Single-Engine Piston 4 Place and Over	5,250,207	1,317,200	2,188,368	10,620	888,212	565,646	56,784	223,377
3. Twin Engine Piston Under 12,500 Lbs. TOGW	2,137,074	1,480,202	186,285	3,136	26,001	353,920	17,226	70,304
4. Twin Engine Piston Over 12,500 Lbs. TOGW	513,573	374,218	6,440	8,851	3,200	23,408	17,794	79,662
5. Multi-Engine Piston Over 12,500 Lbs. TOGW	75,356	2,228	--	--	29,696	10,556	4,848	28,026
6. Twin-Engine Turboprop Under 12,500 Lbs. TOGW	--	--	--	--	--	--	--	--
7. Twin-Engine Turboprop Over 12,500 Lbs. TOGW	17,221	16,327	323	--	--	--	--	571
8. Twin-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
9. Twin Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
10. Multi-Engine Turbojet/Fan Under 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
11. Multi-Engine Turbojet/Fan Over 20,000 Lbs. TOGW	--	--	--	--	--	--	--	--
ROTARY WING								
12. Piston Engine	187,268	33,350	6,912	17,570	11,000	75,342	27,158	15,936
13. Turbine Engine	4,704	4,040	--	--	--	664	--	--
OTHER	59,212	900	43,152	336	10,496	500	300	3,528
TOTAL	13,256,653	3,341,876	4,202,788	1,099,193	2,563,633	1,085,248	312,887	651,028

Prepared by R. W. Simpson, March 31, 1976

Table 52

**Aircraft Cost of Operation
Variable and Fixed**

1959-1975

COST DATA
Operating Costs 1959-1975

Costs associated with operating the various types of general aviation aircraft were compiled for calendar years 1959-1975 by Aviation Data Service, Inc. (ADS), into nine cost centers. The specific cost centers include:

Variable Costs (\$/Hour)

Fuel and Oil
Airframe and Avionics Maintenance and Overhaul
Engine Maintenance and Overhaul

Fixed Costs (\$/Year)

Annualized Investment
Hull Insurance
Medical and Liability Insurance
Hangar, Storage, or Tie Down
Federal Use/Weight Tax
Miscellaneous

Fuel and Oil Costs (\$/Hour)

Fuel and oil cost per hour are based on the average consumption rate at 75 percent power on piston engine aircraft; at 85 to 90 ft./lbs. of torque on turboprop aircraft; and, a setting of 90 percent max thrust on jet aircraft. (See Table 53) Airframe and engine manufacturers recommended fuel types were used for all calculations. The dollar amounts presented in the cost tables, include state and federal fuel tax.

Airframe and Avionics Maintenance and Overhaul Cost (\$/Hour)

This cost center includes all labor and parts costs associated with scheduled and unscheduled airframe and avionics maintenance and overhaul.

Engine Maintenance and Overhaul (\$/Hour)

Engine maintenance and overhaul includes costs for scheduled and unscheduled engine maintenance, overhaul, 100, 1000 and/or annual inspections. Includes also midpoint and cycle costs for turbine engine.

Annualized Investment (\$/Year)

The purpose of the annualized investment cost center is to represent an annual dollar amount for the ownership cost of the aircraft itself. A straight line annualizing schedule applied to the aircraft's first year retail price has been used.

Hull Insurance (\$/Year)

Hull insurance cost is the annual premium paid to insure the aircraft against damage while in motion or at rest. A deductible amount is normally included.

Liability and Medical Insurance (\$/Year)

Liability insurance premiums are paid to insure the aircraft owner against damage to persons or property by reason of his operation of the aircraft.

Hangar, Storage and Tie Down (\$/Year)

Hangar, storage and tie down rates are averaged from known regional hangar rates, parking fees, and manufacturer suggested rates.

Annual Federal Poundage and Use Tax (\$/Year)

The Annual Federal Civil Aircraft Use and Weight Tax went into effect July 1, 1970. The rates are:

- Reciprocating powered aircraft — \$25 plus \$0.02 per pound for aircraft over 2,500 pounds gross weight.
- Turbine powered aircraft — \$25 plus \$0.035 per pound gross weight.

Operating Costs

Operating costs for all aircraft types except four, five, 10 and 14 are given.* All costs are given in current dollars.

Miscellaneous (\$/Year)

Miscellaneous costs include allowance for the state aircraft registration fees, training, catering, landing fees, navigation materials, airworthiness directive requirements and minor modifications.

* Aircraft falling into category codes four and five are twin and multi-engine piston aircraft over 12,500 lbs. gross weight and are obsolescent one-time airliners of no great moment. Category 10 was to cover multi-engine jet aircraft under 20,000 lbs. gross weight — of course, there are none. Category 14 covers sailplanes, balloons, etc., and cost data at this time is not of significance.

AVERAGE FUEL CONSUMPTION

Aircraft Category	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
1	10.1	10.4	10.4	10.4	10.4	10.5	10.5	9.9	10.1	10.1	10.4	10.2	10.3	10.4	10.2	10.2	10.2
2	13.0	13.0	13.8	13.6	13.6	13.6	13.6	13.7	13.4	13.2	13.3	13.3	13.5	13.5	13.2	13.1	13.2
3	30.5	31.0	31.0	33.0	32.6	32.6	32.6	32.1	33.0	33.5	34.8	33.2	33.6	33.7	33.0	33.1	33.0
6	--	--	--	--	--	--	57.7	57.3	55.1	56.0	62.0	63.7	63.1	64.0	62.0	61.0	61.0
7	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0
8	--	--	--	--	315.0	315.0	311.0	310.0	295.0	292.0	292.0	288.0	292.0	292.0	292.0	292.0	292.0
9	--	--	--	--	--	323.0	323.0	365.0	365.0	380.0	381.0	377.0	381.0	381.0	385.0	385.0	385.0
11	--	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
12	14.0	15.1	15.1	15.1	15.1	15.1	15.1	14.9	15.3	14.8	14.8	14.0	14.0	14.0	14.0	14.0	14.0
13	--	--	--	--	--	--	--	25.5	25.5	25.5	25.4	25.0	25.7	25.7	25.7	26.0	26.0

Table 53

**SINGLE-ENGINE PISTON AIRCRAFT
ONE TO THREE SEATS
Operational Cost**

AIRCRAFT TYPE CATEGORY - 1

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	2.84	2.99	3.15	3.32	3.50	3.69	3.88	3.78	3.92	4.02	4.27	4.69	4.84	4.95	5.61	7.14	7.95
Airframe and Avionics Reserve	63	66	69	73	77	81	85	88	1.07	1.16	1.33	1.50	1.67	1.82	1.99	2.37	2.42
Eng. Maint. and Overhaul Reserve	71	75	79	83	87	92	97	1.06	.95	.98	1.08	1.18	1.27	1.36	1.48	1.77	1.81
TOTAL	4.18	4.40	4.63	4.88	5.14	5.42	5.70	5.82	5.94	6.16	6.68	7.37	7.78	8.13	9.08	11.28	11.88
ANNUAL FIXED COSTS																	
Amortized Investment	1,453.00	1,485.00	1,547.00	1,820.00	1,973.00	1,956.00	1,990.00	2,294.00	2,375.00	2,686.00	2,636.00	2,702.00	2,892.00	2,997.00	3,217.00	3,700.00	3,773.00
Ins. Hull	439.00	446.00	464.00	546.00	582.00	587.00	622.00	777.00	725.00	802.00	770.00	772.00	803.00	889.00	965.00	1,110.00	1,132.00
Ins. Liab. & Med.	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00
Hgr. & Tie Down	270.00	280.00	295.00	310.00	325.00	342.00	360.00	388.00	415.00	443.00	473.00	506.00	528.00	554.00	609.00	730.00	876.00
Federal User Charges	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	25.00	25.00	25.00	25.00	25.00	25.00
Miscellaneous	54.00	56.00	58.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00	82.00	86.00	90.00	93.00	98.00	110.00	121.00
TOTAL	2,401.00	2,442.00	2,539.00	2,911.00	3,128.00	3,128.00	3,216.00	3,646.00	3,765.00	4,184.00	4,136.00	4,286.00	4,513.00	4,743.00	5,089.00	5,850.00	6,102.00

Prepared by J. Hoffmann, March 31, 1976

Table 54

**SINGLE-ENGINE PISTON AIRCRAFT
FOUR SEATS AND OVER
Operational Cost**

AIRCRAFT TYPE CATEGORY - 2

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1968	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	4.10	4.32	4.55	4.79	5.04	5.31	5.59	5.74	5.75	5.81	5.96	6.53	6.72	7.37	7.91	9.17	9.90
Airframe and Avionics Reserve	1.35	1.42	1.49	1.57	1.65	1.74	1.83	1.95	2.06	2.16	2.37	2.58	2.79	3.00	3.30	3.90	4.39
Eng. Maint. and Overhaul Reserve	1.27	1.32	1.38	1.44	1.50	1.56	1.63	1.68	1.53	1.58	1.65	1.81	1.97	2.11	2.32	2.74	3.08
TOTAL	6.72	7.06	7.42	7.80	8.19	8.61	9.05	9.37	9.34	9.55	9.98	10.92	11.48	12.48	13.53	15.81	17.37
ANNUAL FIXED COSTS																	
Annualized Investment	2,500.00	2,893.00	2,939.00	2,845.00	2,932.00	3,000.00	3,087.00	3,221.00	3,499.00	3,668.00	3,848.00	3,921.00	4,212.00	4,276.00	4,869.00	5,275.00	5,935.00
Ins. Hull	667.00	772.00	784.00	759.00	782.00	800.00	825.00	860.00	909.00	953.00	974.00	965.00	1,009.00	1,140.00	1,461.00	1,587.00	1,662.00
Ins. Liab. & Med	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00
Hgr. & Tie Down	338.00	356.00	375.00	395.00	415.00	436.00	459.00	478.00	495.00	525.00	553.00	582.00	610.00	638.00	702.00	842.00	1,010.00
Federal User Charges	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	80.00	80.00	76.00	76.00	76.00	76.00
Miscellaneous	72.00	75.00	78.00	81.00	85.00	89.00	93.00	97.00	101.00	105.00	110.00	115.00	120.00	125.00	131.00	144.00	158.00
TOTAL	3,883.00	4,402.00	4,482.00	4,026.00	4,520.00	4,631.00	4,770.00	4,962.00	5,310.00	5,557.00	5,791.00	5,969.00	6,337.00	6,561.00	7,545.00	8,225.00	9,142.00

Prepared by J. Hoffmann, March 31, 1976

Table 55

TWIN ENGINE PISTON AIRCRAFT
UNDER 12,500 LBS. TOGW

Operational Cost

AIRCRAFT TYPE CATEGORY - 3

VARIABLE COSTS PER HOUR	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Fuel and Oil (inc. Taxes)	9.84	10.36	10.90	11.47	12.07	12.71	13.38	13.52	14.19	14.73	15.68	16.27	16.80	18.20	19.68	23.17	24.75
Airframe and Avionics Reserve	4.74	4.99	5.25	5.53	5.82	6.13	6.45	6.70	7.26	7.67	8.36	8.75	9.36	9.50	10.36	12.35	14.25
Eng. Maint. and Overhaul Reserve	5.72	5.96	6.21	6.47	6.74	7.02	7.31	7.72	7.67	8.41	9.33	8.99	9.28	9.29	10.13	12.08	13.94
TOTAL	20.30	21.31	22.36	23.47	24.63	25.86	27.14	27.94	29.12	30.81	33.37	34.01	35.44	35.99	40.18	47.60	52.94

ANNUAL FIXED COSTS

Annualized Investment	10,630.00	12,005.00	12,190.00	13,906.00	13,637.00	13,580.00	14,169.00	16,115.00	17,465.00	17,781.00	17,905.00	18,103.00	18,823.00	17,639.00	21,519.00	23,873.00	27,542.00
Ins. Hull	1,415.00	1,600.00	1,625.00	1,854.00	1,818.00	1,811.00	2,031.00	2,308.00	2,383.00	2,426.00	2,399.00	2,346.00	2,432.00	2,470.00	3,021.00	3,342.00	3,856.00
Ins. Lic. & Med	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00
Hgr. & Tie Down	655.00	689.00	725.00	763.00	803.00	845.00	889.00	1,036.00	1,122.00	1,192.00	1,252.00	1,325.00	1,393.00	1,391.00	1,530.00	1,836.00	2,203.00
Federal User Charges	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	158.00	148.00	148.00	148.00	148.00
Miscellaneous	116.00	122.00	128.00	134.00	141.00	148.00	155.00	162.00	169.00	176.00	184.00	192.00	200.00	208.00	218.00	240.00	264.00
TOTAL	13,176.00	14,776.00	15,028.00	17,017.00	16,759.00	16,744.00	19,981.00	21,999.00	21,999.00	21,935.00	21,900.00	22,484.00	23,366.00	22,216.00	26,856.00	29,799.00	34,373.00

Table 56

Prepared by J. Hoffmann, March 31, 1976

**TWIN ENGINE TURBOPROP AIRCRAFT
UNDER 12,500 LBS. TOGW
Operational Cost**

AIRCRAFT TYPE CATEGORY - 6**

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1968	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	-0-	-0-	-0-	-0-	-0-	-0-	23.65	24.05	23.71	24.66	27.89	31.23	31.54	34.70	36.73	41.48	45.75
Airframe and Avionics Reserve	-0-	-0-	-0-	-0-	-0-	-0-	15.20	14.23	14.80	15.56	16.54	18.33	20.21	20.93	22.81	27.21	30.22
Eng. Maint. and Overhaul Reserve	-0-	-0-	-0-	-0-	-0-	-0-	21.50	21.80	22.08	21.55	20.52	21.44	22.26	21.59	23.53	28.07	31.18
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-	60.35	60.08	60.59	61.77	64.95	71.00	74.01	77.22	83.07	96.76	107.15
ANNUAL FIXED COSTS																	
Annualized Investment	-0-	-0-	-0-	-0-	-0-	-0-	42,890.00	51,118.00	51,421.00	52,778.00	58,683.00	67,635.00	68,560.00	70,215.00	80,133.00	86,448.00	96,026.00
Ins. Hull	-0-	-0-	-0-	-0-	-0-	-0-	5,949.00	7,072.00	6,882.00	6,852.00	7,264.00	8,217.00	8,427.00	9,362.00	10,684.00	11,526.00	12,801.00
Ins. Liab. & Med.	-0-	-0-	-0-	-0-	-0-	-0-	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
Hgr. & Tie Down	-0-	-0-	-0-	-0-	-0-	-0-	1,800.00	1,900.00	2,048.00	2,048.00	2,075.00	2,340.00	2,572.00	2,833.00	3,116.00	3,739.00	4,487.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	407.00	407.00	407.00	407.00	407.00	407.00
Miscellaneous	-0-	-0-	-0-	-0-	-0-	-0-	1,400.00	1,664.00	1,670.00	1,713.00	1,937.00	2,190.00	2,247.00	2,368.00	2,486.00	2,735.00	3,008.00
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-	53,699.00	63,254.00	63,331.00	64,891.00	72,459.00	82,289.00	83,713.00	86,685.00	98,326.00	106,355.00	118,229.00

**The aircraft type category not applicable until 1965.
*Federal use issue not applicable until 1970.

Prepared by J. Hoffmann, March 31, 1976

Table 57

**TWIN ENGINE TURBOPROP AIRCRAFT
OVER 12,500 LBS. TOGW
Operational Cost**

AIRCRAFT TYPE CATEGORY - 7

VARIABLE COSTS PER HOUR	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Fuel and Oil (Inc. Taxes)	56.03	58.98	62.09	65.32	68.80	72.42	76.23	78.54	83.16	85.47	85.47	99.40	101.73	111.90	125.45	157.08	166.32
Airframe and Avionics Reserve	45.79	48.20	50.74	53.41	56.22	59.18	62.29	66.73	71.19	74.21	78.67	83.12	87.58	91.50	99.74	118.95	124.90
Eng. Maint. and Overhaul Reserve	12.02	12.52	13.04	13.59	14.16	14.75	15.36	15.92	16.50	17.10	15.90	16.00	16.00	16.25	17.71	21.13	22.19
TOTAL	113.84	119.70	125.87	132.36	139.18	146.35	153.88	161.19	168.23	174.47	179.64	198.52	205.31	219.65	242.90	297.16	313.42

ANNUAL FIXED COSTS

Annualized Investment	96,900.00	98,150.00	105,000.00	124,860.00	127,500.00	130,500.00	136,263.00	139,264.00	147,187.00	148,712.00	161,752.00	172,877.00	185,760.00	180,000.00	216,000.00	240,000.00	252,000.00
Ins. Hull	12,110.00	12,270.00	13,125.00	15,608.00	15,940.00	16,312.00	15,540.00	15,867.00	15,882.00	16,046.00	15,750.00	16,800.00	16,500.00	22,500.00	25,200.00	28,000.00	29,400.00
Inc. Lic. & Med.	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00
Hgr. & Tie Down	6,726.00	7,080.00	7,453.00	7,845.00	8,258.00	8,693.00	9,150.00	9,500.00	10,025.00	10,450.00	10,900.00	11,375.00	11,850.00	12,325.00	13,558.00	16,270.00	19,524.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	1,416.00	1,416.00	1,416.00	1,416.00	1,416.00
Miscellaneous	3,400.00	3,500.00	3,750.00	3,900.00	4,050.00	4,250.00	4,440.00	4,530.00	4,890.00	4,940.00	5,250.00	5,600.00	6,000.00	6,400.00	6,720.00	7,392.00	8,131.00
TOTAL	122,736.00	124,610.00	132,328.00	155,813.00	159,348.00	163,355.00	168,993.00	172,761.00	181,584.00	183,748.00	197,252.00	211,663.00	225,126.00	276,241.00	286,494.00	296,678.00	314,071.00

*Federal user taxes not applicable until 1970

Prepared by J. Hoffmann, March 31, 1976

Table 58

**TWIN ENGINE TURBOJET/FAN AIRCRAFT
UNDER 20,000 LBS. TOGW
Operational Cost**

AIRCRAFT TYPE CATEGORY - 8	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	-0-	-0-	-0-	-0-	97.73	97.61	102.75	105.41	100.48	105.28	108.04	123.90	128.30	141.13	158.36	198.56	210.24
Airframe and Avionics Reserve	-0-	-0-	-0-	-0-	28.45	29.96	31.54	35.69	41.58	44.67	45.63	46.81	49.35	51.05	55.64	66.36	71.56
Eng. Maint. and Overhaul Reserve	-0-	-0-	-0-	-0-	37.69	39.26	40.90	41.35	38.82	38.83	39.90	40.00	40.68	42.30	46.11	54.99	59.30
TOTAL	-0-	-0-	-0-	-0-	158.88	166.83	175.19	182.45	180.88	188.78	193.27	210.71	218.33	234.48	260.11	319.91	341.10
ANNUAL FIXED COSTS																	
Annualized Investment	-0-	-0-	-0-	-0-	97,000.00	71,163.00	79,794.00	78,120.00	101,613.00	101,020.00	106,808.00	106,853.00	108,635.00	95,797.00	113,109.00	117,550.00	126,773.00
Ins. Hull	-0-	-0-	-0-	-0-	8,540.00	11,640.00	12,480.00	12,206.00	14,856.00	14,764.00	14,560.00	14,538.00	13,685.00	12,454.00	13,573.00	14,106.00	15,212.00
Ins. Liab. & Med.	-0-	-0-	-0-	-0-	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00	1,380.00
Hgr. & Tie Down	-0-	-0-	-0-	-0-	14,350.00	14,650.00	3,000.00	3,313.00	3,350.00	3,756.00	4,672.00	5,588.00	8,115.00	9,107.00	10,018.00	12,072.00	14,425.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	613.00	613.00	613.00	613.00	613.00	613.00
Miscellaneous	-0-	-0-	-0-	-0-	2,800.00	3,000.00	3,120.00	3,052.00	3,962.00	3,937.00	4,160.00	4,154.00	4,217.00	4,373.00	4,581.00	5,050.00	5,555.00
TOTAL	-0-	-0-	-0-	-0-	124,070.00	102,833.00	99,774.00	98,071.00	125,161.00	124,857.00	131,580.00	133,125.00	136,645.00	123,724.00	143,284.00	150,721.00	163,958.00

*Federal use taxes not applicable until 1970.

Prepared by J. Hoffmann, March 31, 1976

Table 59

**TWIN ENGINE TURBOJET/FAN AIRCRAFT
OVER 20,000 LBS. TOGW
Operational Cost**

AIRCRAFT TYPE CATEGORY - 9

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	-0-	-0-	-0-	-0-	-0-	101.26	106.59	124.27	124.27	137.04	140.82	162.06	167.49	184.31	207.56	261.80	277.20
Airframe and Avionics Reserve	-0-	-0-	-0-	-0-	-0-	97.02	102.13	89.78	93.80	104.95	108.75	112.82	116.98	120.29	131.12	156.38	169.20
Eng. Maint. and Overhaul Reserve	-0-	-0-	-0-	-0-	-0-	50.11	52.20	51.50	53.05	54.78	52.00	50.46	49.01	64.29	70.08	83.58	90.43
TOTAL	-0-	-0-	-0-	-0-	-0-	248.39	260.92	265.55	270.92	296.77	301.57	325.34	333.48	368.89	408.76	501.76	536.83
ANNUAL FIXED COSTS																	
Annualized Investment	-0-	-0-	-0-	-0-	-0-	82,500.00	104,346.00	112,199.00	174,724.00	189,587.00	197,620.00	210,945.00	220,461.00	218,750.00	248,322.00	279,566.00	302,250.00
Ins. Hull	-0-	-0-	-0-	-0-	-0-	9,900.00	13,260.00	14,244.00	20,436.00	22,714.00	21,167.00	22,550.00	21,363.00	24,063.00	27,425.00	30,752.00	33,715.00
Ins. Lias. & Med.	-0-	-0-	-0-	-0-	-0-	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
Hgr. & Ttc. Consum.	-0-	-0-	-0-	-0-	-0-	6,500.00	6,600.00	6,550.00	7,000.00	8,176.00	8,642.00	9,113.00	9,667.00	10,080.00	11,066.00	13,279.00	15,935.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
Miscellaneous	-0-	-0-	-0-	-0-	-0-	3,800.00	4,080.00	4,383.00	6,812.00	7,391.00	7,687.00	8,200.00	8,595.00	9,182.00	9,641.00	10,605.00	11,665.00
TOTAL	-0-	-0-	-0-	-0-	-0-	104,200.00	129,786.00	138,876.00	210,472.00	228,828.00	236,626.00	253,639.00	262,917.00	264,886.00	300,285.00	337,033.00	365,956.00

*Federal user charges not applicable until 1970

Prepared by J. Hoffmann, March 31, 1976

Table 60

**MULTI-ENGINE TURBOJET/FAN AIRCRAFT
OVER 20,000 LBS. TOGW
Operational Cost**

AIRCRAFT TYPE CATEGORY - 11

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	-0-	154.49	162.62	171.18	180.19	189.67	199.65	205.70	205.70	217.80	223.85	260.15	266.25	292.88	328.44	411.40	435.60
Airframe and Avionics Reserve	-0-	66.19	68.67	73.24	77.20	81.27	85.55	89.06	93.75	99.60	104.30	110.16	117.19	121.71	132.66	158.22	174.04
Eng. Maint. and Overhaul Reserve	-0-	53.33	55.55	57.86	60.27	62.78	65.40	68.10	71.68	76.16	79.74	84.22	88.60	93.05	101.42	120.96	133.06
TOTAL	-0-	274.01	287.84	302.38	317.66	333.72	350.60	362.86	371.13	383.56	407.89	454.53	473.04	507.64	562.56	690.58	742.70
ANNUAL FIXED COSTS																	
Annualized Investment	-0-	133,300.00	139,940.00	146,480.00	153,330.00	160,500.00	171,864.00	179,712.00	188,065.00	196,458.00	205,200.00	229,981.00	231,168.00	225,000.00	225,000.00	225,000.00	225,000.00
Ins. Hull	-0-	13,330.00	13,994.00	14,648.00	15,333.00	16,050.00	16,800.00	17,550.00	18,330.00	19,148.00	20,000.00	22,350.00	22,400.00	22,500.00	22,500.00	22,500.00	22,500.00
Ins. Lic. & Med.	-0-	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00	3,940.00
Hgr. & Tra Down	-0-	2,744.00	2,886.00	3,040.00	3,200.00	3,368.00	3,545.00	3,745.00	4,956.00	6,417.00	7,888.00	9,348.00	10,800.00	11,836.00	13,020.00	15,625.00	18,750.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
Miscellaneous	-0-	5,200.00	5,475.00	5,760.00	6,065.00	6,385.00	6,720.00	7,020.00	7,332.00	7,659.00	8,000.00	8,940.00	8,960.00	9,280.00	9,744.00	10,718.00	11,790.00
TOTAL	-0-	156,514.00	166,237.00	173,868.00	181,668.00	190,243.00	202,689.00	211,767.00	222,663.00	233,652.00	245,038.00	276,073.00	278,781.00	274,069.00	275,717.00	279,296.00	283,483.00

*Federal user fees not applicable

Annualized Investment for 1975 is based on 1972 model a/c. 1973/74/75 Category 11 a/c were not produced

Prepared by J. Hoffmann, March 31, 1976

Table 61

ROTARY WING PISTON AIRCRAFT Operational Cost

AIRCRAFT TYPE CATEGORY - 12

VARIABLE COSTS PER HOUR	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Fuel and Oil (Inc. Taxes)	3.66	3.85	4.05	4.26	4.48	4.72	4.97	5.07	5.20	5.32	5.46	6.04	6.17	6.74	7.66	9.80	10.50
Airframe and Avionics Reserve	6.58	6.93	7.29	7.67	8.07	8.48	8.94	9.16	9.38	9.60	9.83	10.06	10.30	10.49	11.44	13.64	15.14
Eng. Maint. and Overhaul Reserve	2.54	2.65	2.76	2.87	2.99	3.11	3.24	3.12	3.21	3.30	3.39	3.49	3.59	3.67	4.00	4.77	5.29
TOTAL	12.78	13.43	14.10	14.80	15.54	16.02	17.15	17.35	17.79	18.22	18.68	19.59	20.06	20.90	23.10	28.21	30.93
ANNUAL FIXED COSTS																	
Annualized Investment	5,025.00	4,687.00	4,684.00	4,909.00	4,984.00	5,612.00	5,872.00	6,025.00	6,201.00	6,432.00	6,823.00	6,897.00	7,470.00	7,612.00	7,151.00 (a)	6,825.00 (a,b)	7,575.00
Ins. Hull	4,500.00	3,750.00	3,747.00	3,927.00	3,987.00	4,489.00	4,587.00	4,707.00	4,835.00	5,015.00	5,315.00	5,312.00	5,790.00	6,090.00	5,721.00	5,460.00	6,060.00
Ins. Liab. & Med.	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00
Hgr. & Tie Down	351.00	370.00	390.00	411.00	433.00	456.00	480.00	495.00	510.00	530.00	550.00	575.00	600.00	625.00	687.00	825.00	990.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	25.00	54.00	54.00	54.00	54.00
Miscellaneous	96.00	98.00	100.00	102.00	104.00	106.00	108.00	110.00	112.00	114.00	116.00	118.00	120.00	122.00	128.00	140.00	150.00
TOTAL	10,322.00	9,255.00	9,271.00	9,699.00	9,658.00	10,907.00	11,397.00	11,687.00	12,008.00	12,441.00	13,154.00	13,277.00	14,355.00	14,828.00	14,091.00	13,654.00	15,183.00

*Federal use taxes not applicable until 1970.

(a) Bell Model 47 sold for lower price FAF factory.

(b) Bell Model 47 not sold in 1974.

Prepared by J. Hoffmann March 31, 1976

Table 62

ROTARY WING TURBINE AIRCRAFT Operational Cost

AIRCRAFT TYPE CATEGORY - 13**

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
VARIABLE COSTS PER HOUR																	
Fuel and Oil (Inc. Taxes)	-0-	-0-	-0-	-0-	-0-	-0-	-0-	8.68	8.68	9.20	9.40	10.75	11.30	12.43	14.01	17.68	18.72
Airframe and Avionics Reserve	-0-	-0-	-0-	-0-	-0-	-0-	-0-	12.88	13.40	13.91	14.43	14.94	15.46	15.89	17.32	20.66	22.38
Eng. Maint. and Overhaul Reserve	-0-	-0-	-0-	-0-	-0-	-0-	-0-	18.13	18.75	19.33	20.00	20.60	16.97	17.46	19.03	22.70	24.60
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-	-0-	39.69	40.83	42.44	43.83	46.29	43.73	45.78	50.36	61.01	65.71
ANNUAL FIXED COSTS																	
Annualized Investment	-0-	-0-	-0-	-0-	-0-	-0-	-0-	12,114.00	12,974.00	14,110.00	14,594.00	14,622.00	16,254.00	16,625.00	16,625.00	20,472.00	22,190.00
Ins. Hull	-0-	-0-	-0-	-0-	-0-	-0-	-0-	8,500.00	9,050.00	9,475.00	10,150.00	10,150.00	11,250.00	11,875.00	11,875.00	14,623.00	15,950.00
Ins. Lia. & Med.	-0-	-0-	-0-	-0-	-0-	-0-	-0-	660.00	660.00	660.00	660.00	660.00	660.00	660.00	660.00	660.00	660.00
Hgr. & Tie Down	-0-	-0-	-0-	-0-	-0-	-0-	-0-	640.00	672.00	704.00	736.00	768.00	800.00	827.00	909.00	-1,090.00	1,308.00
Federal User Charges*	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	25.00	25.00	137.00	137.00	137.00	137.00
Miscellaneous	-0-	-0-	-0-	-0-	-0-	-0-	-0-	184.00	187.00	190.00	193.00	196.00	200.00	204.00	214.00	235.00	258.00
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-	-0-	22,158.00	23,543.00	25,139.00	26,333.00	26,421.00	28,189.00	30,328.00	30,620.00	37,217.00	40,403.00

*Federal use tax not applicable until 1970
**This aircraft type category not applicable until 1965

Table 63

RETAIL VALUE
NEW AND USED

Aircraft Retail Value New and Used

New prices are based on manufacturer's retail equipped prices as delivered from the factory. Modifications performed during the distribution cycle are not included. A base model aircraft is included for comparison. The equipment and options are specified in the equipment list which is included in each issue.

Used prices are based on average retail sales prices for particular make and model aircraft. The used aircraft are equipped with average equipment. The aircraft are listed in terms of hours on the engine and are in current status. The aircraft are listed in terms of equipment and options. Such changes have little effect on used aircraft prices.

All prices shown in Tables 1 through 13 are retail dollar values current in investment year.

**RETAIL VALUE
NEW AND USED**

New and used prices are a composite of make and model available during investment year by type category.

New prices are based on manufacturer's retail equipped prices as delivered from the factory. Modifications performed during the distributor/dealer loop are not included as these aircraft are purchased less equipment and return to approximate factory equipped retail prices when delivered.

Used prices are based on average retail sales price for particular make and model sold during investment year. All used aircraft are equipped with average equipment, have at least one half remaining hours on the engine and are in current license. No allowance is made for modifications or equipment installations. Such changes have little effect on used aircraft prices.

All costs shown in Tables 64 through 73 are retail dollar value current in investment year.

**SINGLE-ENGINE PISTON AIRCRAFT
ONE TO THREE SEATS**

Retail Value

AIRCRAFT TYPE CATEGORY - 1		1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
INVESTMENT																	
YEAR																	
1975		25,156															
1974		21,155	24,672														
1973		19,316	18,567	21,444													
1972		17,944	16,861	17,250	19,980												
1971		16,535	14,383	14,818	15,502	18,679											
1970		14,422	12,924	12,688	12,868	12,977	17,490										
1969		13,204	11,710	11,391	11,316	11,562	14,654	17,110									
1968		13,550	11,625	11,285	10,469	11,000	13,622	14,590	17,430								
1967		11,255	9,570	9,515	9,008	9,295	10,629	11,606	13,104	15,435							
1966		10,725	9,150	8,960	8,150	8,522	9,518	10,340	11,409	13,159	14,943						
1965		9,527	8,255	8,122	7,521	7,706	8,307	8,668	9,062	10,181	11,525	12,966					
1964		9,312	8,106	7,775	7,447	7,478	8,453	8,907	9,241	9,671	10,100	11,685	13,040				
1963		8,906	7,687	7,343	6,946	7,035	7,478	7,771	8,004	8,428	8,600	9,484	10,750	13,153			
1962		8,791	7,450	6,975	6,330	6,516	6,587	6,733	7,025	7,391	7,675	8,383	9,650	10,350	12,145		
1961		7,375	6,483	6,108	5,270	5,250	5,467	5,639	5,941	6,135	6,592	7,121	7,985	8,414	8,992	10,315	
1960		7,125	6,258	5,883	4,940	4,581	4,756	4,873	4,993	5,268	5,733	6,175	6,700	6,337	7,506	8,481	9,902

Table 64

**SINGLE-ENGINE PISTON AIRCRAFT
FOUR SEATS AND OVER**
Retail Value

AIRCRAFT TYPE CATEGORY - 2

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1975	39,565															
1974	30,513	35,165														
1973	30,152	31,125	32,458													
1972	27,921	28,184	28,947	28,506												
1971	25,723	25,223	25,578	23,316	26,560											
1970	23,262	22,845	22,700	20,437	20,404	25,397										
1969	21,844	20,917	20,507	18,437	18,727	21,795	24,981									
1968	19,971	19,225	18,385	16,512	16,821	18,761	20,845	23,833								
1967	17,458	17,838	16,555	14,694	14,982	16,385	17,652	19,900	22,733							
1966	16,593	15,906	15,421	13,718	13,086	13,886	14,728	16,039	18,500	20,971						
1965	15,296	14,617	13,947	12,509	11,750	12,602	13,315	14,086	15,718	17,702	20,121					
1964	14,490	13,623	12,980	11,623	11,046	11,800	12,446	12,921	14,212	15,481	17,665	19,999				
1963	12,719	11,796	10,614	10,184	10,083	10,736	11,256	11,703	12,736	13,983	15,036	17,384	19,545			
1962	11,921	11,046	10,389	9,285	9,750	10,438	10,917	10,503	12,125	13,085	13,725	14,685	16,285	18,966		
1961	11,364	10,453	9,811	8,854	9,500	10,167	10,660	11,121	11,617	11,825	13,071	13,953	15,364	17,185	19,596	
1960	11,708	10,504	9,950	8,585	9,150	9,613	10,318	10,698	11,063	11,767	12,231	12,881	14,204	15,286	17,100	19,288

Table 65

TWIN ENGINE PISTON AIRCRAFT
UNDER 12,500 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 3

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
	183,615															
	138,750	159,156														
	122,535	138,035	143,857													
	106,733	116,183	124,800	117,586												
	101,766	110,350	113,800	102,833	121,590											
	87,750	94,937	98,187	90,281	90,594	117,289										
	76,966	80,857	81,428	77,357	76,125	101,390	114,277									
	82,444	72,791	73,291	89,584	89,694	91,675	102,013	115,532								
	63,444	64,666	64,660	61,555	63,222	78,861	87,555	101,777	113,481							
	55,632	56,147	55,691	52,177	53,264	66,470	73,205	81,808	94,897	104,913						
	46,031	46,500	47,062	43,812	43,906	53,281	59,375	66,550	73,703	83,306	92,333					
	43,166	42,466	42,833	39,867	39,966	47,033	52,050	58,380	63,366	70,966	80,633	90,536				
	41,850	41,633	42,133	39,200	37,933	44,566	47,566	52,800	56,050	61,433	68,400	76,983	90,915			
	37,980	38,423	38,211	36,346	36,232	41,642	44,160	49,750	53,257	58,821	62,892	69,285	78,107	92,705		
	34,886	35,272	36,575	32,318	30,454	35,409	37,400	40,327	43,977	48,136	53,204	57,272	62,363	69,545	81,270	
	31,650	32,225	33,027	30,000	28,600	32,625	34,270	37,475	40,750	44,800	49,310	51,795	55,650	62,550	71,100	80,034

MAKE AND MODEL YEAR

Table 66

TWIN ENGINE TURBOPROP AIRCRAFT
UNDER 12,500 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 6		1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
INVESTMENT												
MAKE AND MODEL YEAR	YEAR											
	1975	800,221										
	1974	568,500	720,400									
	1973	506,258	513,380	667,775								
	1972	440,727	431,220	435,791	514,350							
	1971	384,998	385,938	397,332	452,777	561,788						
	1970	358,581	364,620	371,732	394,285	386,996	547,788					
	1969	206,368	279,612	302,872	334,166	322,176	425,000	484,283				
	1968	225,410	236,668	250,088	267,000	252,558	330,000	369,770	428,250			
	1967	190,313	201,474	214,261	238,750	230,045	296,250	316,500	353,750	417,650		
	1966	167,885	181,451	192,411	195,000	197,500	255,000	277,500	290,000	336,250	416,000	
	1965	144,245	159,631	167,636	200,000	160,000	217,500	235,000	252,500	272,500	297,500	349,950

MAKE AND MODEL YEAR

Table 67

TWIN ENGINE TURBOPROP AIRCRAFT
OVER 12,500 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 7

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1975	2,100,000															
1974	1,780,000	2,000,000														
1973	1,512,000	1,584,000	1,800,000													
1972	1,215,000	1,260,000	1,320,000	1,500,000												
1971	1,092,300	1,212,000	1,260,000	1,200,000	1,500,000											
1970	936,100	1,020,000	1,058,000	1,008,000	1,120,000	1,400,000										
1969	826,800	878,835	917,550	866,250	1,704,000	1,050,000	1,312,500									
1968	742,400	783,863	792,156	758,353	820,160	888,720	987,466	1,234,333								
1967	632,500	664,440	701,776	671,916	754,266	806,300	879,600	977,333	1,221,666							
1966	559,533	593,846	616,200	589,333	623,750	702,666	748,000	816,000	906,666	1,133,333						
1965	527,901	556,465	567,600	543,900	558,700	610,500	688,200	732,600	799,200	888,000	1,110,000					
1964	482,100	503,700	522,160	500,250	507,750	565,500	598,125	674,250	717,750	783,000	870,000	1,087,500				
1963	443,700	460,205	477,200	456,875	457,000	520,625	552,500	584,375	658,750	701,250	765,000	850,000	1,062,500			
1962	404,700	419,350	435,060	416,200	409,000	478,630	509,845	541,060	572,275	645,110	686,730	749,160	832,400	1,040,500		
1961	372,330	334,800	347,050	332,500	342,500	362,750	402,500	428,750	455,000	481,250	542,500	577,500	630,000	700,000	875,000	
1960	288,750	296,800	307,900	294,480	298,500	327,200	351,740	376,280	400,820	425,360	449,900	507,160	539,880	588,960	654,400	818,000

Table 68

TWIN ENGINE TURBOJET/FAN AIRCRAFT
UNDER 20,000 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 8

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963
1975	1,267,725												
1974	922,700	1,175,507											
1973	848,900	972,469	1,131,092										
1972	770,887	816,373	858,549	939,250									
1971	792,334	837,588	847,082	848,875	1,052,666								
1970	673,125	709,138	715,965	768,625	842,500	1,038,416							
1969	666,800	695,037	683,335	690,625	765,000	862,500	1,040,000						
1968	629,610	661,057	655,644	650,000	648,000	704,000	754,400	984,288					
1967	585,900	620,188	634,770	531,666	591,250	642,500	685,000	725,750	990,375				
1966	408,866	452,704	491,071	481,666	470,000	518,750	548,125	567,500	618,750	762,900			
1965	383,024	429,044	570,851	453,333	444,666	503,333	528,333	335,666	610,000	634,166	780,000		
1964	404,035	460,258	501,528	421,666	421,666	485,000	508,333	523,333	367,666	605,666	614,666	711,666	
1963	530,000	550,000	570,000	560,000	540,000	650,000	665,000	675,000	715,000	740,000	760,000	770,000	970,000

MAKE AND MODEL YEAR

Table 69

TWIN ENGINE TURBOJET/FAN AIRCRAFT
OVER 20,000 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 9		1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964
INVESTMENT	YEAR												
	1975	3,025,000											
	1974	2,387,333	2,795,658										
	1973	2,218,000	2,252,057	2,493,223									
	1972	1,734,500	1,782,710	1,913,675	2,187,500								
	1971	1,595,500	1,599,679	1,743,820	1,788,750	2,136,250							
	1970	1,481,125	1,458,889	1,630,482	1,531,250	1,686,250	2,050,000						
	1969	1,319,750	1,268,882	1,468,924	1,280,000	1,443,605	1,566,800	1,924,250					
	1968	1,238,333	1,239,215	1,537,532	1,225,000	1,281,926	1,429,516	1,500,516	1,847,833				
	1967	1,108,166	1,115,009	1,459,362	1,093,300	1,137,776	1,207,751	1,110,304	1,421,108	1,702,966			
	1966	695,000	665,298	720,028	610,000	637,500	687,590	738,280	833,970	896,930	1,095,700		
	1965	648,000	615,773	679,250	565,000	597,500	646,500	675,500	747,000	793,000	827,000	1,020,000	
	1964	505,000	576,500	638,500	470,000	490,000	540,000	570,000	590,000	620,000	640,000	660,000	825,000

Table 70

MULTI-ENGINE TURBOJET/FAN AIRCRAFT
OVER 20,000 LBS. TOGW

Retail Value

AIRCRAFT TYPE CATEGORY - 11

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1975	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1974	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1973	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1972	1,800,000	1,912,500	2,025,000	2,250,000	---	---	---	---	---	---	---	---	---	---	---	---
1971	1,611,000	1,790,000	1,879,000	1,790,000	2,240,000	---	---	---	---	---	---	---	---	---	---	---
1970	1,475,000	1,609,000	1,738,000	1,809,000	1,800,000	2,235,000	---	---	---	---	---	---	---	---	---	---
1969	1,240,000	1,320,000	1,399,000	1,320,000	1,456,000	1,600,000	2,000,000	---	---	---	---	---	---	---	---	---
1968	1,053,000	1,187,000	1,234,400	1,187,000	1,263,768	1,378,656	1,531,840	1,914,800	---	---	---	---	---	---	---	---
1967	953,000	1,008,000	1,079,000	1,002,000	1,191,450	1,209,780	1,319,760	1,466,400	1,833,000	---	---	---	---	---	---	---
1966	859,000	912,800	939,970	912,600	985,250	1,140,750	1,158,300	1,278,000	1,404,000	1,755,000	---	---	---	---	---	---
1965	738,000	786,500	810,000	786,500	885,360	924,000	1,041,600	1,108,800	1,209,600	1,344,000	1,580,000	---	---	---	---	---
1964	690,000	738,300	760,450	738,300	764,475	834,600	882,750	995,100	1,059,300	1,155,600	1,284,000	1,605,000	---	---	---	---
1963	613,000	659,300	679,100	659,300	708,384	751,317	797,316	843,315	950,646	1,011,978	1,103,976	1,226,640	1,533,300	---	---	---
1962	556,000	585,600	605,230	585,600	634,258	673,808	717,752	761,696	805,640	908,176	966,768	1,054,656	1,171,840	1,464,800	---	---
1961	504,000	531,772	542,400	531,772	559,760	601,742	643,724	685,706	727,688	789,670	867,628	923,604	1,007,568	1,119,520	1,399,400	---
1960	492,000	506,540	516,670	506,540	506,540	533,200	573,190	613,190	653,170	693,160	733,150	826,460	879,780	959,760	1,066,400	1,333,000

MAKE AND MODEL YEAR

Table 71

ROTARY WING PISTON AIRCRAFT

Retail Value

AIRCRAFT TYPE CATEGORY - 12

MAKE AND MODEL YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
	50,500															
	38,500	45,500 (a, b)														
	40,750	42,250	47,675 (a)													
	38,750	40,000	41,250	50,750												
	36,875	37,875	38,250	40,750	48,250											
	34,750	34,625	35,250	37,000	37,250	44,265										
	33,000	33,250	33,625	34,500	34,000	38,750	44,290									
	31,500	31,500	30,750	31,250	31,250	33,000	37,250	41,790								
	29,250	28,750	28,500	28,000	28,750	29,500	32,000	34,250	40,290							
	29,000	28,750	28,250	26,750	25,000	26,000	27,750	28,000	35,000	39,225						
	27,500	27,625	26,125	22,000	22,250	22,750	24,500	26,300	29,500	33,750	38,225					
	26,500	26,750	25,250	21,500	20,000	20,750	22,250	23,250	26,125	28,750	33,000	37,412				
	24,500	23,000	20,750	16,750	16,500	16,500	18,000	19,750	22,500	24,250	26,000	29,000	33,225			
	23,750	22,250	19,625	16,250	15,375	15,250	15,750	19,000	21,000	21,750	22,000	25,750	28,375	32,725		
	22,750	22,000	20,000	14,750	13,250	13,000	14,125	15,875	17,750	19,500	19,750	21,750	24,200	27,400	31,225	
	21,000	18,625	16,500	12,750	11,250	11,000	11,975	12,450	13,425	15,400	16,125	16,650	16,875	17,150	25,750	31,250

(a) Bell Model 47 lowered price.
 (b) Bell Model 47 discontinued.

Table 72

ROTARY WING TURBINE AIRCRAFT

Retail Value

AIRCRAFT TYPE CATEGORY - 13

INVESTMENT YEAR	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966
1975	158,500									
1974	130,000	146,230								
1973	106,250	107,500	118,750							
1972	98,750	100,000	101,250	118,750						
1971	87,500	93,500	92,000	93,750	112,500					
1970	85,000	87,500	83,000	83,750	82,500	101,500				
1969	76,500	83,750	78,250	77,000	75,000	92,250	101,500			
1968	74,000	79,250	73,700	70,500	68,500	77,500	83,000	94,750		
1967	69,500	73,250	70,000	63,750	62,500	73,750	78,750	85,500	90,500	
1966	61,500	61,500	55,000	61,250	47,500	67,500	72,500	73,000	74,000	85,000

MAKE AND MODEL YEAR

Table 73

**Aircraft Fuel Prices
1959-1975**

RETAIL FUEL PRICE*

Annual Average

AVIATION FUEL GRADE

	80/87	100/130	Jet Type A
1959	36¢	37.0¢	36.5¢
1960	37	38.0	36.9
1961	36	37.6	37.5
1962	37	37.8	37.1
1963	36	37.7	36.7
1964	36	37.6	35.0
1965	38	39.0	36.2
1966	39	39.9	37.6
1967	40	41.1	38.6
1968	40	41.7	37.9
1969	42	43.0	38.5
1970	42	43.4	39.0
1971	42	43.7	41.2
1972	43	44.2	42.1
1973	47	48.6	50.0
1974	64	65.7	61.7
1975	68	70.2	66.0

**Includes applicable State and Federal Taxes.*

Table 74