



**Australian Government**

**Department of Transport and Regional Services**

Bureau of Transport and Regional Economics

# **AIR TRANSPORT STATISTICS**

## **GENERAL AVIATION**

**2002**

# **GENERAL AVIATION**

## **2002**

**AVSTATS**

BUREAU OF TRANSPORT AND REGIONAL ECONOMICS  
DEPARTMENT OF TRANSPORT AND REGIONAL SERVICES

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## SIGNIFICANT FEATURES OF THE DATA

### OVERVIEW

During the year ended 31 December 2002 general aviation and regional airline activity recorded a decline in hours flown by Australian VH- registered aircraft of 3.2 per cent compared to the year ended 31 December 2001. Hours flown totalled 1,937,800, with 3,089,900 landings.

Regional airline flying was significantly affected by the collapse of Ansett Australia, recording a decrease in flying hours of 16.1 per cent over the 2001 calendar year.

General Aviation flying continued to show a decrease in activity in 2002, with a drop in flying hours of 0.9 per cent. Aerial agriculture flying fell by 33.6 per cent from the effects of drought conditions across much of Australia. Charter, business flying and test and ferry activity also decreased by 4.4, 1.8 and 9.9 per cent respectively.

Aerial work recorded the largest increase in flying activity, with a rise of 11.2 per cent. Private and training activity also saw more moderate increases of 3.2 and 1.1 per cent respectively.

Figure 1 shows the movement in hours flown and landings between 1992 and 2002.

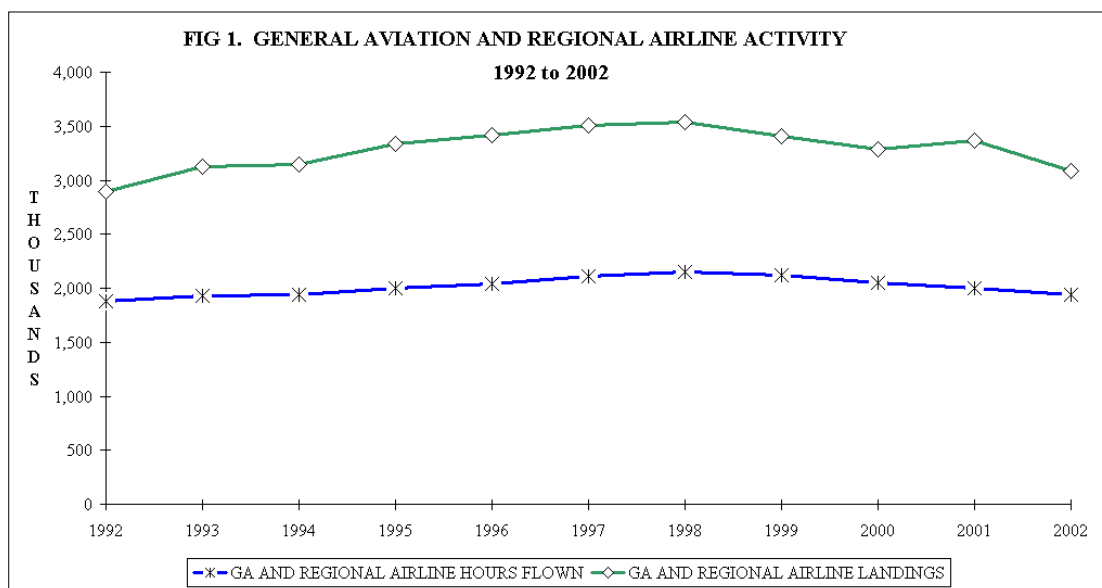
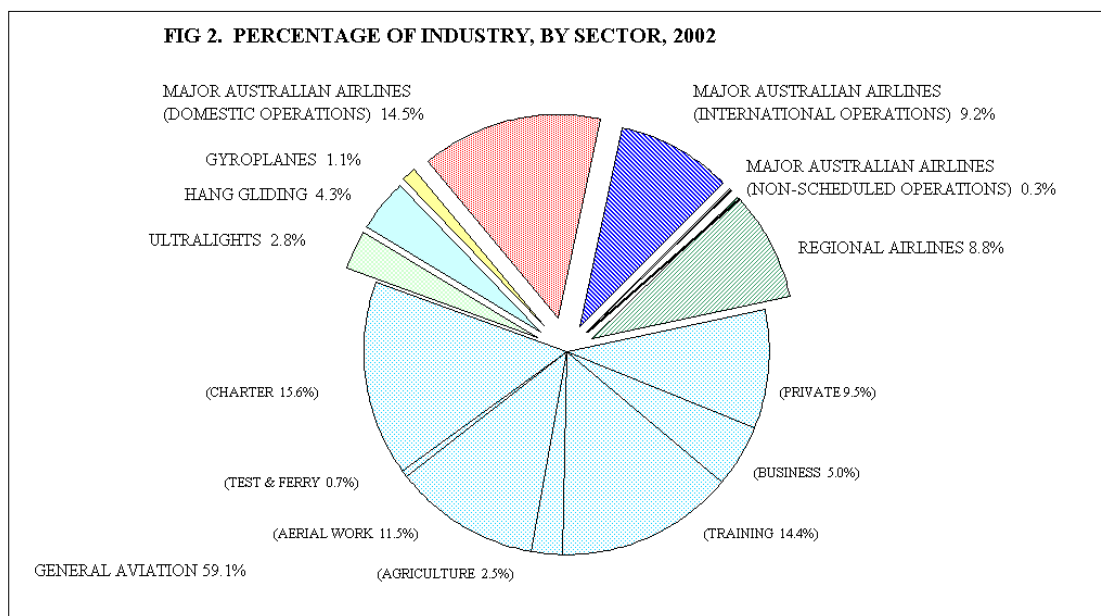


Figure 2 shows the relative sizes of the major industry sectors, based on hours flown.



## AIRCRAFT BASED IN AUSTRALIA

The data presented in this publication for the year ended 31 December 2002 covers 10,455 aircraft in the general aviation and regional airline sectors, representing an increase of 0.5 per cent over the number registered at 31 December 2001. Aircraft operated by the major airlines are excluded from these totals.

Numbers of fixed-wing single-engined aircraft (excluding amateur-built aircraft) fell marginally by 12 units, but remained the largest group with 6,668 aircraft or nearly 64 per cent of the Australian total. Fixed-wing multi-engined aircraft (1,706 units), representing more than 16 per cent of the general aviation/regional airline total, decreased by 1.7 per cent over the previous year.

Fixed-wing single-engined amateur-built aircraft numbers increased by 5.1 per cent in 2002 to 707 units, or nearly 7 per cent of the Australian total.

The number of helicopters increased by 6.0 per cent, with multi-engined helicopters decreasing by three units or 3.6 per cent. The number of single-engined helicopters rose by 6.9 per cent to 957 units; this figure includes 53 helicopters in the amateur-built category.

Hot-air balloons and airships contributed 3.2 per cent of the total with 336 aircraft, recording a rise in numbers of 0.6 per cent.

These statistics exclude a total of 6,034 gliders, ultralight aircraft and hang gliders.

A total of 619,500 hours, or 32.0 per cent of all flying, was performed in aircraft between 21 and 25 years old, rising to 894,900 hours (46.2 per cent) for the ten-year span of 21 to 30 years old.

80.4 per cent of public transport flying (charter and regional airline) was done in aircraft more than ten years old, and 52.7 per cent in aircraft more than 20 years old.

Average flying hours per aircraft fell by 3.6 per cent, from 192.4 hours in 2001 to 185.3 hours in 2002. For active aircraft only, average hours flown were 222.4, down 2.7 per cent on the 2001 average.

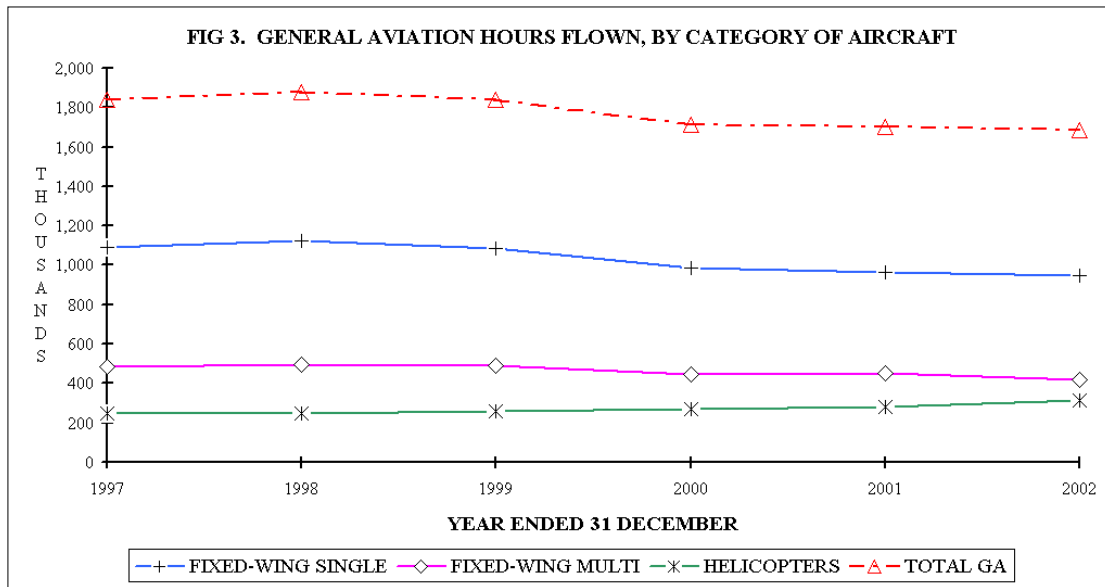
Nearly 35 per cent of all active aircraft flew 50 hours or less during the 2002 year, while over 52 per cent flew 100 hours or less. This compares with 31 per cent and 48 per cent respectively ten years before, in 1992.

A total of 1,743 aircraft, or 16.7 per cent of the number surveyed, were reported or estimated as performing no flying during the year ended 31 December 2002, compared with 1,646 aircraft (15.8 per cent) during 2001. As a result, the number of active aircraft in 2002 fell by 44 units or 0.5 per cent compared to 2001.

The survey covering the year ended 31 December 2002 elicited a total of 689 responses indicating reasons for nil flying activity. The following table shows the summary of these responses:

Reason for nil activity	Number of aircraft	Percentage of total
Repair/maintenance/restoration	329	47.8
Amateur-built aircraft not yet completed	56	8.1
Aircraft destroyed or broken up	49	7.1
Aircraft unairworthy	48	7.0
Aircraft in storage	47	6.8
Health issues	29	4.2
Aircraft in museum	25	3.6
Withdrawn from service	22	3.2
Financial reasons	10	1.5
All other	74	10.7
Total	689	100.0

Figure 3 shows the flying hours performed in general aviation operations by the major categories of aircraft.



(Hours flown in hot-air balloon and airship operations are too low to be represented on this graph)

## LANDINGS

The total number of landings reported during the year ended 31 December 2002 decreased by 8.3 per cent over the previous year. All States but one saw decreases in landings, Tasmania recording the largest fall with a drop of 21.7 per cent. The Australian Capital Territory, Victoria, Western Australia and South Australia also saw greater than average falls with decreases of 17.7, 16.4, 13.6 and 10.0 per cent respectively. The only State to record an increase in landings was the Northern Territory, with a nominal rise of 0.7 per cent.

## GENERAL AVIATION (GA) ACTIVITY

General Aviation activity (excluding scheduled regional airline operations) decreased by 0.9 per cent in 2002 compared to 2001.

Rising operational and compliance costs, and the continuing relatively low value of the Australian dollar (particularly affecting fuel and maintenance costs) are likely to have contributed to the lack of growth in GA flying activity.

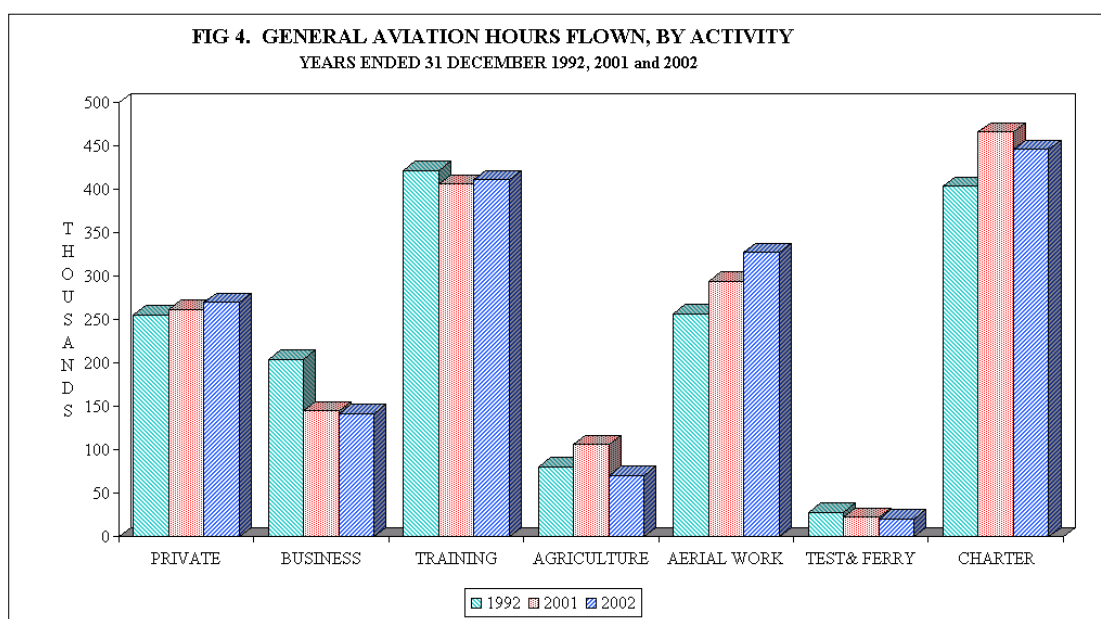
Aerial work flying recorded the highest increase in activity with a rise of 11.2 per cent over the 2001 year. The rise was largely driven by the mustering and other aerial work categories, showing increases of 14.9 and 33.1 per cent respectively; part of the rise in the latter category can most likely be attributed to the increased use of aircraft in the fire-fighting role.

Flying training and charter continued to make up the two largest activity categories in the GA sector, representing 24.3 per cent and 26.4 per cent respectively of all GA flying hours during the year ended 31 December 2002. Flying training recorded a rise of 1.1 per cent, while charter hours fell by 4.4 per cent.

Private flying recorded a modest increase in flying hours with a rise of 3.2 per cent over the 2001 year, while business flying returned to its long-term downward trend with a fall of 1.8 per cent. Private and business flying together represented 24.4 per cent of GA activity.

Aerial agriculture flying recorded the largest drop of the major categories with a fall of 33.6 per cent, due to the drought conditions affecting large areas of the country.

Figure 4 shows the relative sizes of each general aviation sector, and compares 2002 statistics with equivalent 2001 and 1992 data.

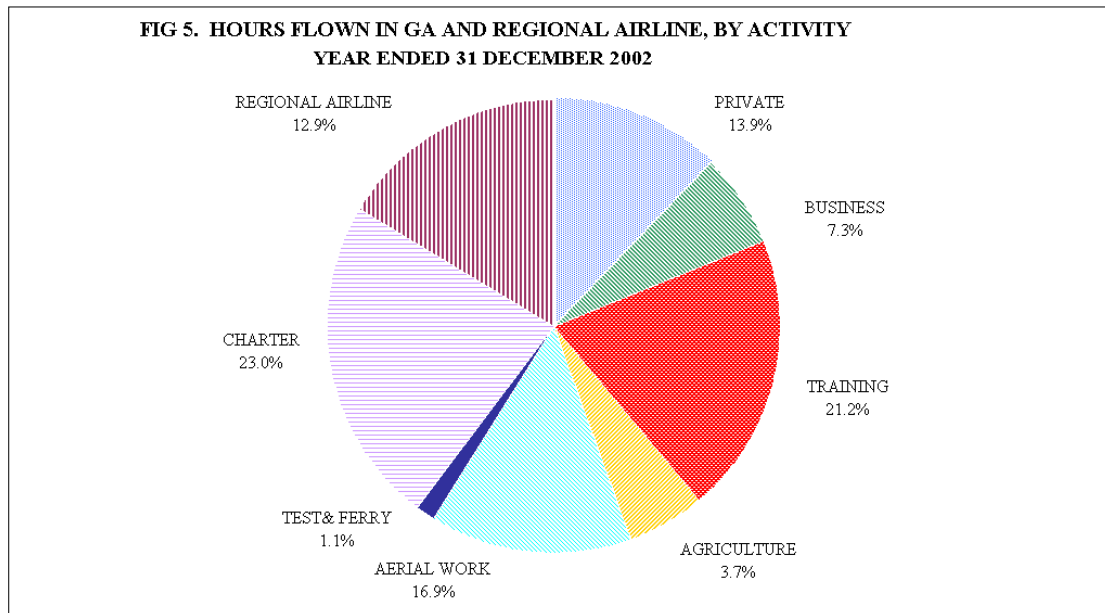


## REGIONAL AIRLINE ACTIVITY

Regional airline flying activity recorded a substantial decrease of 16.1 per cent in 2002, compared with 2001 results.

The financial collapse of Ansett Australia in September 2001 led to the temporary cessation of services by subsidiary and partner regional airlines, and a subsequent period of re-adjustment of service levels and alliances. Some routes, previously devolved from the major airline sector, were resumed by the major airlines.

The rationalisation process within the industry and the sale of former Ansett assets continued well into 2002, resulting in the reduced level of flying activity recorded for the year. Preliminary statistics of passengers carried on regional airline services show a drop of nearly 23 per cent in 2002 over 2001.



## **ULTRALIGHT FLYING**

In 2002, ultralight aircraft flew a total of 80,600 hours, representing an increase of 5.4 per cent over the 2001 year.

By far the highest level of ultralight flying was undertaken in Queensland, with 31,100 hours or 38.6 per cent of the Australian total. New South Wales and Victoria together accounted for a further 40.6 per cent of flying activity.

At the end of December 2002, a total of 1,610 aircraft had current registrations issued by the Australian Ultralight Federation, the same number as at December 2001.

## **GLIDING**

Hours flown in gliding operations fell by 14.0 per cent between 1990/91 and 1998/99 (statistics for 1999/00 and beyond are not available), with an average annual growth rate of minus 1.9 per cent. Although activity remained relatively static through the 1980s and early 1990s, the last few recorded years had seen a continuing drop in flying hours, with 1998/99 showing a further decrease of 2.3 per cent over 1997/98 (based on years ended 30 April).

Number of aircraft registered increased from 1,059 at June 2001 to 1,083 at June 2002, representing a growth rate of 2.3 per cent.

## **HANG GLIDING**

Hang gliders flew 122,200 hours in the 2001/02 year, to record a rise of 1.9 per cent over 2000/01.

Nearly 47,500 hours, or 38.8 per cent of the Australia total, were flown in New South Wales for an increase of 1.4 per cent over 2000/01. Victoria recorded the largest increase, with a rise in flying activity of 4.0 per cent, followed by the South Australia/Northern Territory region with 2.8 per cent. Activity in the other States remained relatively static, with rises in Western Australia, Tasmania and the Australian Capital Territory of 1.7, 0.4 and 1.1 per cent respectively. The only State to show a decrease in activity was Queensland, with a drop of 0.5 per cent.

At the end of June 2002, an estimated 3,341 aircraft were involved in hang gliding operations.

## **GYROPLANES**

During the 2001/02 financial year, provisional statistics indicate that gyroplanes flew 32,300 hours Australia-wide. This estimate, based on a survey response rate of approximately 23 per cent, represents a decrease of 12.5 per cent over the 2000/01 estimates.

Private flying represented approximately 93 per cent of the total, with flying training making up the remainder of reported activity. Compared with 2000/01, the amount of private flying fell by 8.9 per cent, while training hours decreased by 43.1 per cent. At December 2000 (more recent statistics are not available), 487 aircraft (excluding 41 additional aircraft still under construction) were registered with the Australian Sport Rotorcraft Association, an increase of 12.7 per cent over the previous year.

## SECTION A. INDUSTRY OVERVIEW

**Table 1. Total hours flown by industry sector, 1992 to 2002 ('000 hours)**

Year	Industry Sector							TOTAL
	General Aviation	Major Australian Airlines non-RPT (a)	Total airline RPT (b)	Ultralight Flying	Gliding (c)	Hang Gliding (d)	Gyroplanes	
1992	1,651.0	6.5	750.3	52.4	83.3	73.5	..	2,616.9
1993	1,703.9	5.8	781.2	56.8 (d)	73.0	86.2	5.6 (e)	2,712.4
1994	1,705.7	4.9	838.7	73.0	80.1	77.6	15.0 (d)	2,794.9
1995	1,761.3	5.5	899.6	72.0	75.9	86.4	14.4 (d)	2,915.0
1996	1,799.0	4.7	938.5	70.4	69.2	103.2	23.3 (d)	3,008.4
1997	1,839.3	3.6	969.8	75.1	68.9	102.3	23.3 (d)	3,082.3
1998	1,877.9	3.6	958.2	67.6	65.4	87.5	33.4 (d)	3,093.7
1999	1,842.2	3.8	963.5	73.9	63.9	104.6	30.4 (d)	3,082.3
2000	1,714.8	4.3	1,074.2	74.1	..	106.7	29.7 (d)	3,003.8
2001	1,702.9	6.6	1,044.3	76.5	..	120.0	37.0 (d)	2,987.1
2002	1,687.7	7.5	926.0	80.6	..	122.2	32.3 (d)	2,856.3

(a) Non-RPT flying by the major Australian airlines.

(b) Hours flown by Australian (including regional) airlines on domestic and international flight stages, in Regular Public Transport (RPT) operations. See Table 34 for detail.

(c) Covers years ended 30 April.

(d) Covers years ended 30 June.

(e) Covers January to June 1993 only.

**Table 2. Percentage distribution of hours flown by industry sector, 1992 to 2002**

Year	Industry Sector							TOTAL
	General Aviation	Major Australian Airlines non-RPT (a)	Total airline RPT (b)	Ultralight Flying	Gliding (c)	Hang Gliding (d)	Gyroplanes	
1992	63.1	0.2	28.7	2.0	3.2	2.8	..	100.0
1993	62.8	0.2	28.8	2.1 (d)	2.7	3.2	0.2 (e)	100.0
1994	61.0	0.2	30.0	2.6	2.9	2.8	0.5 (d)	100.0
1995	60.4	0.2	30.9	2.5	2.6	3.0	0.5 (d)	100.0
1996	59.8	0.2	31.2	2.3	2.3	3.4	0.8 (d)	100.0
1997	59.7	0.1	31.5	2.4	2.2	3.3	0.8 (d)	100.0
1998	60.7	0.1	31.0	2.2	2.1	2.8	1.1 (d)	100.0
1999	59.8	0.1	31.3	2.4	2.1	3.4	1.0 (d)	100.0
2000	57.1	0.1	35.8	2.5	..	3.6	1.0 (d)	100.0
2001	57.0	0.2	35.0	2.6	..	4.0	1.2 (d)	100.0
2002	59.1	0.3	32.4	2.8	..	4.3	1.1 (d)	100.0

(a) Non-RPT flying by the major Australian airlines.

(b) Hours flown by Australian (including regional) airlines on domestic and international flight stages, in Regular Public Transport (RPT) operations. See Table 34 for detail.

(c) Covers years ended 30 April.

(d) Covers years ended 30 June.

(e) Covers January to June 1993 only.



**Table 3. Hours flown and percentage change, by industry sector and flying activity, 2000 to 2002**

Industry sector and flying activity	2000		2001		2002	
	Hours flown ('000)	% change over 1999	Hours flown ('000)	% change over 2000	Hours flown ('000)	% change over 2001
<b>Airline RPT</b>						
Major Australian Airlines						
Domestic operations	463.1	4.7	457.7	-1.2	414.3	-9.5
International operations	275.3	12.9	288.6	4.8	261.6	-9.4
Regional Airlines	335.7	21.1	298.0	-11.2	250.1	-16.1
Sub Total	1,074.2	11.5	1,044.3	-2.8	926.0	-11.3
Airline non-RPT	4.3	11.7	6.6	53.1	7.5	13.7
<b>General Aviation</b>						
Private	248.5	-10.0	261.7	5.3	270.2	3.2
Business	136.3	-11.0	144.9	6.2	142.2	-1.8
Training	413.6	-7.9	406.2	-1.8	410.8	1.1
Agriculture	115.0	-9.0	106.7	-7.2	70.8	-33.6
Aerial work	296.9	-3.2	294.2	-0.9	327.1	11.2
Test & Ferry	27.9	4.6	23.2	-16.9	20.9	-9.9
Charter	476.7	-5.5	466.0	-2.2	445.7	-4.4
Sub Total	1,714.8	-6.9	1,702.9	-0.7	1,687.7	-0.9
Ultralight Flying	74.1	0.2	76.5	3.3	80.6	5.4
Gliding	..	..	..	..	..	..
Hang Gliding (a)	106.7	2.0	120.0	12.4	122.2	1.9
Gyroplanes (a)	29.7	-2.3	37.0	24.3	32.3	-12.5
<b>TOTAL</b>	<b>3,003.8</b>	<b>-2.5</b>	<b>2,987.1</b>	<b>-0.6</b>	<b>2,856.3</b>	<b>-4.4</b>

(a) Covers years ended 30 June.

**Table 4. Number of aircraft, landings and hours flown in General Aviation and Regional Airline operations by State or Territory, 2002 ('000 hours)**

State or Territory	No. of Aircraft		Landings ('000)	General Aviation		Regional Airline		TOTAL HOURS FLOWN
	Total	Active (a)		Active Aircraft (a)	Hours Flown	Active Aircraft (a)	Hours Flown	
	NSW	3,045		2,464	848.6	2,405	401.7	
VIC	2,066	1,676	419.3	1,673	253.5	13	14.5	268.0
QLD	2,481	2,102	802.0	2,068	401.8	68	65.4	467.2
SA	753	664	274.9	660	151.2	19	15.9	167.0
WA	1,421	1,205	455.8	1,200	316.2	29	14.7	330.9
TAS	168	150	45.4	150	24.8	4	1.3	26.1
NT	384	343	221.2	331	122.7	18	15.8	138.5
ACT	137	108	22.8	108	15.9	0	0	15.9
AUSTRALIA	10,455	8,712	3,089.9	8,595	1,687.7	231	250.1	1,937.8

(a) Aircraft reported or estimated as doing some flying during the annual survey period. Sum of active aircraft in General Aviation and Regional Airline operations may not match total active aircraft, as some aircraft are active in both categories of operation.

**Table 5. Hours flown in General Aviation and Regional Airline operations, by flying activity, 1992 to 2002 ('000 hours)**

Year	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	Total GA	Regional Airline	TOTAL
1992	255.4	204.2	421.6	80.9	256.7	28.2	403.9	1,651.0	223.4	1,874.4
1993	265.3	212.3	436.8	89.2	278.8	28.2	393.4	1,703.9	227.7	1,931.6
1994	256.9	198.5	419.5	78.9	301.7	25.9	424.4	1,705.7	238.3	1,944.0
1995	251.0	189.1	430.6	94.5	302.4	28.2	465.7	1,761.3	243.1	2,004.4
1996	261.6	182.8	444.9	117.4	285.7	26.2	480.4	1,799.0	246.2	2,045.2
1997	266.7	176.0	449.5	128.4	307.4	27.6	483.7	1,839.3	272.4	2,111.7
1998	263.0	163.8	478.5	139.2	312.4	26.6	494.6	1,877.9	273.2	2,151.1
1999	275.9	153.3	448.8	126.3	306.6	26.6	504.6	1,842.2	277.3	2,119.4
2000	248.5	136.3	413.6	115.0	296.9	27.9	476.7	1,714.8	335.7	2,050.6
2001	261.7	144.9	406.2	106.7	294.2	23.2	466.0	1,702.9	298.0	2,000.9
2002	270.2	142.2	410.8	70.8	327.1	20.9	445.7	1,687.7	250.1	1,937.8

## SECTION B. NUMBER OF AIRCRAFT BASED IN AUSTRALIA

**Table 6. Number of aircraft performing General Aviation and Regional Airline operations, by principal aircraft makes, 1997 to 2002**

Aircraft Make	1997	1998	1999	At Dec 1999 (a)	At Dec 2000	At Dec 2001	At Dec 2002
Fixed Wing - Single Engine							
A.E.S.L.	16	16	16	16	16	16	16
Aeronca	6	7	6	5	5	6	6
Air Parts	30	30	30	29	29	31	28
Air Tractor	85	95	105	104	107	105	105
American Air	90	89	91	90	90	91	89
American Champion	0	0	3	3	3	5	7
Auster	136	135	138	137	138	139	139
Avtech	9	9	9	5	6	7	5
Ayres	38	41	47	47	49	48	45
BAC	7	8	9	9	9	9	9
Beagle	11	11	12	12	11	11	11
Beechcraft	341	342	343	335	334	331	327
Bellanca/ Champion	68	68	67	67	67	67	66
Boeing	12	14	15	15	16	19	19
Cessna	2,935	2,950	2,984	2,962	2,962	2,955	2,940
Cirrus	0	0	0	0	1	1	5
Commonwealth Aircraft	42	50	51	51	53	55	53
Consolidated Aeronautics	19	18	17	16	15	15	14
Czech	5	5	5	5	5	5	5
De Havilland	293	300	302	300	300	305	312
Eagle	14	19	22	22	21	20	19
Fairchild	5	5	5	5	6	6	5
Fuji	13	12	13	13	13	13	13
Gippsland	10	12	17	17	14	18	26
Grob	51	57	58	58	57	57	57
Grumman	23	23	22	22	23	22	22
Hawker Siddeley	5	7	8	8	8	9	9
Hedaro	77	79	75	71	54	36	28
IMCO	9	9	9	9	9	9	9
Luscombe	13	13	13	13	13	13	13
Maule	50	50	52	51	54	54	53
Mikoyan	8	8	8	8	8	8	8
Mooney	149	150	147	146	146	143	144
Nanchang	7	12	13	13	13	14	15
North American	36	36	37	37	37	40	41
NZAI	31	31	32	32	32	32	32
Pacific Aerospace	12	16	29	29	29	28	29
Pilatus	9	10	11	11	12	17	21
Piper	1,442	1,435	1,447	1,435	1,423	1,416	1,413
Pitts	24	23	22	22	22	22	22
PZL	29	31	36	35	36	36	40
Reims-Cessna	5	5	5	5	5	5	5
Robin	11	11	12	12	12	12	12
Rockwell	39	40	40	39	38	36	36
Ryan	7	6	7	7	8	8	9
SIAI Marchetti	4	4	4	4	5	4	7
Slepcev	0	0	2	2	12	13	11
Socata	97	98	97	97	99	92	88

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys.

For an accurate comparison with years 2000 and 2001, an extra column showing number of aircraft at the end of 1999 has been added

**Table 6. Number of aircraft performing General Aviation and Regional Airline operations, by principal aircraft makes, 1997 to 2002 - continued**

Aircraft Make	1997	1998	1999	At Dec 1999 (a)	At Dec 2000	At Dec 2001	At Dec 2002
Fixed Wing - Single Engine (continued)							
Stinson	14	19	19	19	19	19	19
Sud Aviation	4	4	4	4	5	5	5
Transavia	13	14	14	14	14	14	14
Victa	78	79	79	79	79	80	80
Yakovlev	9	13	16	16	19	26	29
Amateur-built	446	504	571	559	619	673	707
Other	107	114	130	125	122	132	133
Sub Total	6,994	7,137	7,326	7,247	7,302	7,353	7,375
Fixed Wing - Multi Engine							
Aero Commander	63	64	67	63	62	62	62
Beechcraft	380	373	385	374	378	367	364
British Aerospace	24	29	31	25	24	25	22
Britten Norman	34	33	37	36	39	38	35
Cessna	406	409	402	395	390	386	379
Dassault	4	4	6	5	5	6	7
De Havilland	73	70	72	71	77	79	80
Douglas	20	20	18	17	20	20	20
Embraer	27	31	32	31	32	28	26
Fairchild	46	49	47	47	49	50	57
Fokker	16	13	15	15	15	15	13
GAF Nomad	13	10	7	7	6	6	5
Gates Learjet	8	8	8	8	8	9	14
Grumman	10	11	11	11	11	11	11
Israel Aircraft	14	8	8	8	8	9	8
Lockheed	8	8	9	9	9	9	7
Partenavia	47	46	48	46	46	44	45
Piper	487	485	486	465	454	452	448
Reims-Cessna	5	5	6	5	5	5	5
Saab	23	25	26	26	27	26	24
Shorts	21	16	13	12	11	9	9
Swearingen	16	17	17	14	14	14	12
Ted Smith	16	16	34	32	32	28	27
Other	42	33	33	21	33	38	26
Sub Total	1,803	1,783	1,818	1,743	1,755	1,736	1,706
Rotary Wing (see Table 7)							
Sub Total	768	791	902	868	943	979	1,038
Balloons and Airships (see Table 8)							
Sub Total	284	295	315	310	325	334	336
<b>TOTAL ALL AIRCRAFT</b>	<b>9,849</b>	<b>10,006</b>	<b>10,361</b>	<b>10,168</b>	<b>10,325</b>	<b>10,402</b>	<b>10,455</b>

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys.

For an accurate comparison with years 2000 and 2001, an extra column showing number of aircraft at the end of 1999 has been added

**Table 7. Number of helicopters performing General Aviation and Regional Airline operations, by principal helicopter makes, 1997 to 2002**

Helicopter Make	1997	1998	1999	At Dec 1999 (a)	At Dec 2000	At Dec 2001	At Dec 2002
<b>Rotary Wing - Single Engine</b>							
Aerospatiale/Eurocopter	42	45	56	51	57	62	75
Agusta	11	11	15	14	16	16	17
Bell	189	197	213	204	227	231	243
Enstrom	8	10	10	10	10	9	10
Hiller	17	17	16	16	15	13	13
Hughes/Schweizer	79	67	75	72	77	77	77
Kawasaki	41	40	45	44	43	43	44
Robinson	275	294	336	326	357	379	411
Westland	3	3	4	4	4	4	5
Amateur-built	11	19	34	33	43	50	53
Other	8	8	10	9	7	11	9
Sub Total	684	711	814	783	856	895	957
<b>Rotary Wing - Multi Engine</b>							
Aerospatiale/Eurocopter	20	19	22	22	24	21	21
Bell	18	17	19	19	19	17	18
Kawasaki	7	8	13	12	16	18	19
Sikorsky	32	29	27	25	22	22	19
Other	7	7	7	7	6	6	4
Sub Total	84	80	88	85	87	84	81
<b>TOTAL ROTARY WING</b>	<b>768</b>	<b>791</b>	<b>902</b>	<b>868</b>	<b>943</b>	<b>979</b>	<b>1,038</b>

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys.

For an accurate comparison with years 2000 and 2001, an extra column showing number of aircraft at the end of 1999 has been added

**Table 8. Number of balloons and airships performing General Aviation and Regional Airline operations, by principal makes, 1997 to 2002**

Balloon or Airship Make	1997	1998	1999	At Dec 1999 (a)	At Dec 2000	At Dec 2001	At Dec 2002
Balloon Works	22	21	22	22	22	21	20
Cameron	47	43	46	45	46	45	44
Kavanagh	152	166	183	179	195	203	209
Thunder/Colt	50	51	50	50	50	53	52
Other	13	14	14	14	12	12	11
<b>TOTAL BALLOONS AND AIRSHIPS</b>	<b>284</b>	<b>295</b>	<b>315</b>	<b>310</b>	<b>325</b>	<b>334</b>	<b>336</b>

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys.

For an accurate comparison with years 2000 and 2001, an extra column showing number of aircraft at the end of 1999 has been added

**Table 9. Major Australian airline fleets, by aircraft type, as at 31 December 1997 to 2002**

Aircraft type	1997	1998	1999	2000	2001	2002
Airbus A300	4	0	0	0	0	0
A320	20	20	20	20	13	0
A330	0	0	0	0	0	2
Boeing 717	0	0	0	5	8	14
737	60	60	60	66	55	82
747	33	35	36	39	37	36
767	37	38	38	45	36	36
BAe 146	23	23	23	24	16	15
Fokker F28	2	3	0	0	0	0
Other	0	0	0	1	0	0
<b>TOTAL</b>	<b>179</b>	<b>179</b>	<b>177</b>	<b>200</b>	<b>165</b>	<b>185</b>

## SECTION C. GENERAL AVIATION AND REGIONAL AIRLINE LANDINGS

**Table 10. Number of landings in General Aviation and Regional Airline operations, by State or Territory (a), 1997 to 2002 ('000 landings)**

State or Territory	1997	1998	1999	2000	2001	2002
NSW	1,021.4	1,007.5	975.6	942.6	902.2	848.6
VIC	577.9	576.8	523.6	507.7	501.9	419.3
QLD	846.7	884.7	875.0	801.4	827.9	802.0
SA	246.9	267.9	252.1	248.4	305.5	274.9
WA	521.4	520.0	489.4	490.9	527.6	455.8
TAS	47.6	51.0	52.7	54.8	57.9	45.4
NT	210.9	200.7	204.9	214.2	219.6	221.2
ACT	35.5	31.2	30.1	28.3	27.7	22.8
AUSTRALIA	3,508.3	3,539.7	3,403.3	3,288.5	3,370.3	3,089.9

(a) Refers to the location of the home base of the aircraft.

**Table 11. Number of landings in General Aviation and Regional Airline operations, by category of aircraft, 1997 to 2002 ('000 landings)**

Category	1997	1998	1999	2000	2001	2002
Fixed Wing - Single Engine	2,037.0	2,082.4	1,921.8	1,789.9	1,878.2	1,691.5
- Multi Engine	922.8	930.1	918.4	938.5	904.4	736.3
Rotary Wing - Single Engine	434.4	418.2	451.6	457.9	481.0	551.1
- Multi Engine	98.8	98.5	100.6	89.8	93.5	97.5
Balloons and Airships	15.2	10.5	10.9	12.4	13.2	13.5
TOTAL	3,508.3	3,539.7	3,403.3	3,288.5	3,370.3	3,089.9

## SECTION D. GENERAL AVIATION HOURS FLOWN

**Table 12. Hours flown in General Aviation operations by State or Territory (a), 1997 to 2002 ('000 hours)**

State or Territory	1997	1998	1999	2000	2001	2002
NSW	455.7	466.5	463.9	426.5	395.5	401.7
VIC	276.7	282.3	271.8	249.9	242.3	253.5
QLD	466.9	474.5	467.1	416.0	413.7	401.8
SA	119.6	135.6	133.8	144.6	148.6	151.2
WA	337.5	346.9	338.3	318.8	338.1	316.2
TAS	27.0	26.1	24.4	22.7	26.3	24.8
NT	133.3	125.8	122.6	118.6	121.1	122.7
ACT	22.5	20.2	20.2	17.7	17.3	15.9
AUSTRALIA	1,839.3	1,877.9	1,842.2	1,714.8	1,702.9	1,687.7

(a) Refers to the location of the home base of the aircraft.

**Table 13a. Hours flown in General Aviation operations by flying activity and State or Territory (a), 2002 ('000 hours)**

State or Territory	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	TOTAL
NSW	77.0	36.0	99.8	29.8	72.9	4.2	81.9	401.7
VIC	65.5	25.0	85.5	10.2	23.4	3.4	40.4	253.5
QLD	62.6	46.8	69.9	18.7	92.9	6.2	104.7	401.8
SA	16.1	11.0	58.2	6.1	27.3	1.4	31.0	151.2
WA	32.5	15.0	87.5	3.0	65.7	3.9	108.5	316.2
TAS	4.5	2.0	3.4	2.3	3.9	0.4	8.2	24.8
NT	5.8	5.6	3.6	0.7	40.5	0.9	65.6	122.7
ACT	6.3	0.9	2.9	-	0.3	0.3	5.3	15.9
AUSTRALIA	270.2	142.2	410.8	70.8	327.1	20.9	445.7	1,687.7

(a) Refers to the location of the home base of the aircraft.

**Table 13b. Hours flown in General Aviation Aerial Work operations, by flying activity and State or Territory, 2002 ('000 hours)**

State or Territory	Survey & Photography	Pipe- & Powerline Patrol	Mustering	Search & Rescue	Ambulance	Towing	Other Aerial Work	TOTAL AERIAL WORK
NSW	9.5	5.6	11.1	0.8	20.7	3.5	21.7	72.9
VIC	6.9	2.2	1.7	0.5	0.7	1.9	9.6	23.4
QLD	7.1	3.8	47.0	1.1	15.6	1.1	17.4	92.9
SA	2.1	0.6	1.3	1.7	10.1	0.9	10.6	27.3
WA	11.2	1.5	26.4	0.6	13.7	0.6	11.7	65.7
TAS	0.5	0.9	0.5	0.3	0.0	-	1.7	3.9
NT	1.8	0.1	22.8	0.1	6.5	0.0	9.2	40.5
ACT	0.0	-	-	0.0	0.1	0.1	0.0	0.3
AUSTRALIA	39.1	14.6	110.8	5.1	67.3	8.2	82.0	327.1



**Table 14. Hours flown in General Aviation operations by principal aircraft makes, 1997 to 2002 ('000 hours)**

Aircraft Make	1997	1998	1999	2000	2001	2002
Fixed Wing - Single Engine						
A.E.S.L.	0.9	0.9	0.9	0.7	0.7	0.6
Aeronca	0.2	0.1	0.1	0.2	0.1	0.2
Air Parts	11.7	10.8	10.0	7.5	11.2	9.5
Air Tractor	35.5	10.8	41.1	38.9	34.3	21.7
American Air	8.0	6.6	7.1	6.2	6.3	6.6
American Champion	..	..	..	..	1.0	1.4
Auster	1.8	1.7	1.7	1.6	1.6	1.8
Avtech	1.4	0.6	0.3	0.2	0.4	0.4
Ayres	20.1	23.8	19.5	18.0	14.1	8.5
BAC	0.1	0.1	0.1	0.1	0.1	0.1
Beagle	0.5	0.8	0.7	0.3	0.3	0.2
Beechcraft	45.0	39.5	36.8	27.7	25.7	28.2
Bellanca/ Champion	8.1	10.2	8.8	5.6	5.9	5.9
Boeing	0.3	0.4	0.5	0.4	0.5	0.4
Cessna	559.8	561.5	557.3	503.9	493.2	477.4
Cirrus	0.0	0.0	0.0	..	..	0.5
Commonwealth Aircraft	0.8	0.8	0.8	0.7	0.7	0.7
Consolidated Aeronautics	2.2	1.3	1.0	0.5	0.4	0.6
Czech	0.1	0.1	0.1	0.1	0.1	0.1
De Havilland	18.4	13.4	15.2	15.7	13.7	13.0
Eagle	0.8	1.5	2.1	2.9	3.1	2.1
Fairchild	0.1	0.1	0.1	0.1	0.1	-
Fuji	0.3	0.2	0.4	0.3	0.3	0.5
Gippsland	3.9	2.5	2.3	3.4	4.6	5.6
Grob	13.2	29.8	25.2	28.6	23.3	25.5
Grumman	3.5	3.1	2.6	2.2	2.7	2.0
Hawker Siddeley	-	0.0	0.0	0.0	-	-
Hedaro	10.5	12.2	9.0	6.2	2.5	2.4
IMCO	0.9	1.0	0.7	0.8	0.7	0.8
Luscombe	0.2	0.2	0.2	0.2	0.2	0.2
Maule	4.4	4.6	3.6	3.5	3.0	2.5
Mikoyan	0.2	0.1	0.1	0.1	0.1	0.1
Mooney	17.5	17.9	17.7	14.8	15.9	16.1
Nanchang	0.1	0.2	0.2	0.2	0.2	0.4
North American	0.7	0.7	0.6	0.6	0.7	1.1
NZAI	1.1	1.0	1.1	1.0	1.1	1.1
Pacific Aerospace	4.9	6.5	13.1	13.3	18.1	18.6
Pilatus	6.1	6.8	7.5	8.3	8.1	18.2
Piper	246.7	249.4	231.1	202.9	196.0	196.2
Pitts	1.4	1.4	1.1	0.9	0.9	1.1
PZL	3.5	4.6	4.0	4.8	4.7	3.3
Reims-Cessna	0.3	0.5	0.3	0.3	0.3	0.2
Robin	2.3	2.2	2.0	2.5	2.5	2.5
Rockwell	4.5	5.7	5.1	4.2	3.7	2.8
Ryan	0.1	0.1	0.1	0.1	0.1	0.6
SIAI Marchetti	..	..	..	0.1	..	0.1
Nanchang	..	1.0	1.0	0.9	0.9	0.5
Slepcev	0.0	0.0	0.0	0.5	0.7	0.8
Socata	28.4	36.1	24.0	23.9	24.5	25.6
Stinson	0.4	0.3	0.2	0.2	0.3	0.3

**Table 14. Hours flown in General Aviation operations by principal aircraft makes, 1997 to 2002 ('000 hours) - continued**

Aircraft Make	1997	1998	1999	2000	2001	2002
<b>Fixed Wing - Single Engine (continued)</b>						
Sud Aviation	..	..	..	0.1	0.1	0.2
Transavia	2.1	1.9	1.6	1.9	2.0	1.6
Victa	2.8	2.9	3.0	3.2	3.5	3.3
Yakovlev	0.4	0.2	0.5	0.7	0.6	0.9
Amateur-built	11.5	13.0	13.5	17.8	22.2	24.2
Other	4.9	35.2	8.3	5.1	5.6	6.5
Sub Total	1,092.2	1,126.2	1,084.6	984.7	963.2	945.9
<b>Fixed Wing - Multi Engine</b>						
Aero Commander	27.6	23.9	25.4	18.9	25.8	17.2
Beechcraft	109.8	115.2	116.9	118.0	120.5	116.8
British Aerospace	7.8	11.7	13.4	7.1	6.7	9.2
Britten Norman	16.4	13.4	17.1	15.3	8.3	6.8
Cessna	109.7	109.8	106.2	95.7	91.4	86.0
Dassault	..	..	1.2	1.0	1.3	1.6
De Havilland	15.7	19.0	22.0	16.2	17.6	11.7
Douglas	3.0	2.6	0.7	0.8	1.0	0.7
Embraer	3.1	2.0	2.6	4.1	4.9	5.8
Fairchild	30.6	29.3	29.3	28.2	38.2	29.8
Fokker	4.6	2.7	2.0	2.6	1.5	1.3
GAF Nomad	1.9	2.4	2.4	1.1	0.9	0.8
Gates Learjet	3.9	3.6	2.9	2.1	4.2	3.4
Grumman	2.6	5.3	2.9	2.8	2.7	2.9
Israel Aircraft	6.8	6.0	6.7	3.4	5.3	6.4
Lockheed	0.1	0.1	0.1	0.1	0.2	-
Partenavia	14.3	17.9	15.0	12.9	10.9	10.2
Piper	104.0	105.7	99.7	97.3	90.5	92.5
Reims-Cessna	3.2	2.1	3.6	4.1	1.4	1.4
Saab	0.0	0.4	3.4	0.9	1.1	-
Shorts	1.1	1.3	0.6	0.8	0.5	0.3
Swearingen	6.5	6.9	4.1	4.8	4.6	2.9
Ted Smith	3.6	3.2	4.8	4.7	4.5	5.0
Other	10.8	9.9	6.7	6.1	5.7	5.7
Sub Total	486.8	494.6	489.8	448.9	449.3	418.4
<b>Rotary Wing (see Table 15)</b>						
Sub Total	249.8	247.6	257.4	269.6	278.4	311.7
<b>Balloons and Airships (see Table 16)</b>						
Sub Total	10.5	9.6	10.4	11.6	12.0	11.7
<b>TOTAL ALL AIRCRAFT</b>	<b>1,839.3</b>	<b>1,877.9</b>	<b>1,842.2</b>	<b>1,714.8</b>	<b>1,702.9</b>	<b>1,687.7</b>

**Table 15. Hours flown in General Aviation operations by principal helicopter makes, 1997 to 2002 ('000 hours)**

Helicopter Make	1997	1998	1999	2000	2001	2002
<b>Rotary Wing - Single Engine</b>						
Aerospatiale/Eurocopter	13.8	16.3	16.9	17.3	18.9	23.8
Agusta	1.9	2.1	2.3	2.8	2.9	3.1
Bell	63.2	60.3	62.6	65.6	69.8	73.9
Enstrom	1.4	0.6	0.6	0.9	1.1	0.2
Hiller	3.1	2.1	1.7	2.2	2.1	2.7
Hughes/Schweizer	21.4	16.3	16.3	15.2	14.7	15.8
Kawasaki	10.9	11.3	10.3	8.6	9.7	9.6
Robinson	98.8	100.4	107.0	116.0	121.7	136.0
Westland	..	..	..	..	..	0.7
Amateur-built	0.2	0.2	0.4	1.0	1.1	0.7
Other	0.8	1.3	0.9	0.5	1.3	1.3
Sub Total	215.4	210.7	218.9	230.2	243.4	267.9
<b>Rotary Wing - Multi Engine</b>						
Aerospatiale/Eurocopter	10.2	11.8	11.2	14.7	11.5	16.0
Bell	7.4	8.3	10.5	8.4	7.7	9.0
Kawasaki	1.9	2.8	3.5	3.6	5.4	9.0
Sikorsky	13.0	12.1	11.4	10.5	8.1	8.6
Other	1.9	1.9	1.9	2.2	2.3	1.2
Sub Total	34.4	36.9	38.5	39.4	35.0	43.8
<b>TOTAL ROTARY WING</b>	<b>249.8</b>	<b>247.6</b>	<b>257.4</b>	<b>269.6</b>	<b>278.4</b>	<b>311.7</b>

**Table 16. Hours flown in General Aviation operations by principal makes of balloons and airships, 1997 to 2002 ('000 hours)**

Balloon or Airship Make	1997	1998	1999	2000	2001	2002
Balloon Works	0.3	0.2	0.1	0.2	0.2	0.2
Cameron	1.4	1.0	0.7	1.0	0.7	0.8
Kavanagh	6.1	6.5	8.0	9.0	9.5	9.2
Thunder/Colt	1.3	1.2	1.3	1.3	1.3	1.2
Other	1.5	0.7	0.2	0.2	0.3	0.2
<b>TOTAL BALLOONS AND AIRSHIPS</b>	<b>10.5</b>	<b>9.6</b>	<b>10.4</b>	<b>11.6</b>	<b>12.0</b>	<b>11.7</b>

**Table 17. Hours flown in General Aviation operations by flying activity and principal aircraft makes, 2002 ('000 hours)**

Aircraft Make	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	TOTAL
Fixed Wing - Single Engine								
A.E.S.L.	0.5	0.1	-	0.0	0.0	-	0.0	0.6
Aeronca	0.2	0.0	-	0.0	0.0	0.0	0.0	0.2
Air Parts	0.0	0.0	-	4.8	3.8	0.9	0.0	9.5
Air Tractor	0.3	-	-	20.3	1.1	0.1	0.0	21.7
American Air	4.3	0.9	1.4	0.0	-	0.1	-	6.6
American Champion	0.1	0.0	0.2	0.0	1.1	-	0.0	1.4
Auster	1.6	-	-	0.0	-	-	0.0	1.8
Avtech	0.1	0.0	-	0.0	0.0	0.2	0.0	0.4
Ayres	0.1	0.0	-	7.6	0.7	0.1	0.0	8.5
BAC	0.1	0.0	-	0.0	-	0.0	0.0	0.1
Beagle	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Beechcraft	10.5	8.0	5.5	0.0	0.5	0.3	3.4	28.2
Bellanca/ Champion	1.7	0.2	2.2	0.0	1.6	0.1	-	5.9
Boeing	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Cessna	105.3	53.6	151.1	8.9	49.4	4.7	104.4	477.4
Cirrus	0.3	-	0.1	0.0	0.0	0.1	0.0	0.5
Commonwealth Aircraft	0.6	-	0.1	0.0	-	-	-	0.7
Consolidated Aeronautics	0.3	0.1	-	0.0	0.0	-	0.2	0.6
Czech	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
De Havilland	4.2	0.4	0.8	0.6	-	0.2	6.9	13.0
Eagle	0.2	0.1	1.7	0.0	0.0	0.2	0.0	2.1
Fairchild	-	0.0	0.0	0.0	0.0	0.0	0.0	-
Fuji	0.3	0.0	0.2	0.0	-	-	-	0.5
Gippsland	0.3	0.0	0.2	2.8	-	-	2.3	5.6
Grob	0.1	0.0	25.3	0.0	0.1	-	0.0	25.5
Grumman	0.1	0.0	0.0	1.8	0.1	-	-	2.0
Hawker Siddeley	-	0.0	0.0	0.0	0.0	-	0.0	-
Hedaro	0.7	0.1	1.3	0.0	0.2	-	-	2.4
IMCO	0.0	0.1	0.0	0.1	0.5	-	0.0	0.8
Luscombe	0.2	0.0	0.0	0.0	0.0	-	0.0	0.2
Maule	1.1	0.6	0.2	0.0	0.3	-	0.4	2.5
Mikoyan	0.1	-	-	0.0	0.0	0.0	0.0	0.1
Mooney	6.2	3.9	5.2	0.1	-	0.2	0.6	16.1
Nanchang	0.4	0.0	0.0	0.0	0.0	-	0.0	0.4
North American	0.8	-	-	0.0	0.2	-	0.0	1.1
NZAI	1.0	0.1	-	0.0	-	-	-	1.1
Pacific Aerospace	0.1	0.0	17.5	0.6	0.3	0.1	0.0	18.6
Pilatus	-	1.9	0.4	0.0	14.7	0.2	0.9	18.2
Piper	54.3	17.2	89.7	10.6	10.2	1.7	12.5	196.2
Pitts	0.6	0.3	0.3	0.0	0.0	-	-	1.1
PZL	0.1	-	0.0	2.3	0.8	-	0.0	3.3
Reims-Cessna	0.1	-	0.0	0.0	-	0.0	0.0	0.2
Robin	0.2	0.1	2.1	0.0	-	-	0.0	2.5
Rockwell	0.9	0.4	0.3	1.2	0.0	-	0.0	2.8
Ryan	0.4	0.1	0.1	0.0	0.0	-	-	0.6
SIAI Marchetti	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Skyfox	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.5
Slepcev	0.2	0.3	-	0.0	0.0	0.2	0.0	0.8
Socata	2.6	1.3	21.7	0.0	-	-	0.0	25.6
Stinson	0.3	0.0	0.0	0.0	0.0	-	0.0	0.3
Sud Aviation	0.1	0.0	0.0	0.0	0.0	-	0.0	0.2

**Table 17. Hours flown in General Aviation operations by flying activity and principal aircraft makes, 2002 ('000 hours) - continued**

Aircraft Make	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	TOTAL
Fixed Wing - Single Engine (continued)								
Transavia	0.0	0.0	1.6	0.0	-	0.0	0.0	1.6
Victa	2.0	0.2	1.0	0.0	-	0.1	0.0	3.3
Yakovlev	0.7	0.1	0.1	0.0	0.0	-	-	0.9
Amateur-built	19.8	3.4	0.6	0.0	-	0.5	0.0	24.2
Other	1.4	0.5	1.7	1.8	0.7	0.2	0.2	6.5
Sub Total	226.3	94.1	333.1	63.4	86.6	10.6	131.9	945.9
Fixed Wing - Multi Engine								
Aero Commander	0.3	0.4	0.1	0.0	1.7	0.6	14.1	17.2
Beechcraft	7.2	9.0	21.5	0.0	42.4	1.1	35.6	116.8
British Aerospace	0.0	0.3	-	0.0	0.0	-	8.8	9.2
Britten Norman	0.1	0.1	0.1	0.0	1.5	0.2	4.7	6.8
Cessna	5.0	7.5	6.8	0.0	8.0	1.7	57.0	86.0
British Aerospace	0.7	0.2	-	0.0	-	0.1	0.6	1.6
De Havilland	-	-	0.1	0.0	1.3	0.1	10.2	11.7
Douglas	0.2	0.0	0.1	0.0	0.0	-	0.4	0.7
Embraer	0.0	0.1	0.1	0.0	0.0	-	5.5	5.8
Fairchild	0.0	0.1	0.3	0.0	0.0	0.2	29.2	29.8
Fokker	0.0	-	0.0	0.0	0.8	-	0.5	1.3
GAF Nomad	0.1	0.0	-	0.0	0.0	-	0.7	0.8
Gates Learjet	0.0	-	0.6	0.0	0.4	0.0	2.4	3.4
Grumman	1.6	0.5	0.4	0.0	0.0	-	0.4	2.9
Israel Aircraft	0.0	0.3	-	0.0	0.3	0.0	5.8	6.4
Lockheed	-	0.0	0.0	0.0	0.0	-	0.0	-
Partenavia	1.2	0.4	3.2	0.0	0.7	0.1	4.5	10.2
Piper	9.1	8.8	15.3	0.0	1.4	1.0	56.9	92.5
Reims-Cessna	0.0	0.0	-	0.0	0.6	-	0.8	1.4
Saab	-	0.0	0.0	0.0	0.0	0.0	0.0	-
Shorts	0.0	-	-	0.0	0.0	-	0.2	0.3
Swearingen	-	-	-	0.0	-	-	2.8	2.9
Ted Smith	0.3	0.8	0.2	0.0	0.0	0.1	3.7	5.0
Other	1.1	1.2	0.1	0.0	0.3	0.1	2.9	5.7
Sub Total	26.9	29.7	48.9	0.0	59.7	5.5	247.8	418.4
Rotary Wing - Helicopters and Gyroplanes (see Table 18)								
Sub Total	15.1	18.3	28.6	7.4	180.8	4.8	56.7	311.7
Balloons and Airships (see Table 19)								
Sub Total	2.0	0.1	0.2	0.0	0.0	-	9.3	11.7
<b>TOTAL ALL AIRCRAFT</b>	<b>270.2</b>	<b>142.2</b>	<b>410.8</b>	<b>70.8</b>	<b>327.1</b>	<b>20.9</b>	<b>445.7</b>	<b>1,687.7</b>

**Table 18. Hours flown in General Aviation operations by flying activity and principal helicopter makes, 2002 ('000 hours)**

Helicopter Make	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	TOTAL
Rotary Wing - Single Engine								
Aerospatiale/Eurocopter	2.2	1.3	0.8	0.1	13.5	0.4	5.4	23.8
Agusta	0.8	0.3	0.1	-	1.6	-	0.3	3.1
Bell	2.3	3.0	3.7	3.1	37.7	1.3	22.7	73.9
Enstrom	-	-	-	0.0	-	-	0.1	0.2
Hiller	-	-	-	1.5	1.0	0.1	0.1	2.7
Hughes/Schweizer	0.5	0.5	2.2	1.1	9.2	0.4	1.9	15.8
Kawasaki	0.1	0.7	0.1	0.6	5.2	0.1	2.8	9.6
Robinson	7.8	5.9	18.5	1.0	92.9	1.3	8.6	136.0
Westland	0.0	-	0.1	0.0	0.4	0.0	0.1	0.7
Amateur-built	0.6	-	0.1	0.0	0.0	0.1	0.0	0.7
Other	-	0.1	-	0.0	1.0	-	0.2	1.3
Sub Total	14.3	11.9	25.7	7.4	162.4	3.8	42.3	267.9
Rotary Wing - Multi Engine								
Aerospatiale/Eurocopter	0.5	0.8	1.0	0.0	6.5	0.2	6.9	16.0
Bell	0.0	0.6	0.7	0.0	5.9	0.3	1.5	9.0
Kawasaki	0.1	0.4	0.5	0.0	4.7	0.3	3.0	9.0
Sikorsky	0.1	4.6	0.6	0.0	0.4	0.1	2.8	8.6
Other	0.1	-	-	0.0	0.8	-	0.2	1.2
Sub Total	0.8	6.4	2.9	0.0	18.4	1.0	14.4	43.8
TOTAL ROTARY WING	15.1	18.3	28.6	7.4	180.8	4.8	56.7	311.7

**Table 19. Hours flown in General Aviation operations by flying activity and principal makes of balloons and airships, 2002 ('000 hours)**

Balloon or Airship Make	Private	Business	Training	Agri-culture	Aerial work	Test & ferry	Charter	TOTAL
Balloon Works	-	0.0	0.0	0.0	0.0	-	0.2	0.2
Cameron	0.2	-	-	0.0	0.0	0.0	0.5	0.8
Kavanagh	1.6	0.1	0.2	0.0	0.0	0.0	7.3	9.2
Thunder/Colt	0.1	0.0	-	0.0	0.0	0.0	1.1	1.2
Other	-	0.0	-	0.0	0.0	0.0	0.2	0.2
TOTAL BALLOONS AND AIRSHIPS	2.0	0.1	0.2	0.0	0.0	-	9.3	11.7

**Table 20a. Number of jet aircraft, landings and total hours flown in General Aviation and Regional Airline operations, by principal aircraft makes, 2002**

Aircraft Make	Number of Aircraft	Landings ('000)	Hours Flown ('000)
BAC	9	0.5	0.1
British Aerospace	10	11.3	15.1
Cessna	30	6.3	7.9
Dassault	7	1.8	1.6
Gates Learjet	14	5.4	3.4
Hawker Siddeley	5	-	-
Israel Aircraft	8	9.0	6.4
Mikoyan	8	0.7	0.1
PZL	5	-	-
Other	24	6.2	8.3
<b>TOTAL</b>	<b>120</b>	<b>41.2</b>	<b>42.9</b>

**Table 20b. Hours flown by jet aircraft in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002 ('000 hours)**

Aircraft Make	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
BAC	0.1	0	-	0	-	0	0	0	0.1
British Aerospace	0	0.3	-	0	0	-	6.1	8.7	15.1
Cessna	0.6	2.1	3.1	0	0.1	-	1.9	0	7.9
Dassault	0.7	0.2	-	0	-	0.1	0.6	0	1.6
Gates Learjet	0	-	0.6	0	0.4	0	2.4	0	3.4
Hawker Siddeley	0	0	0	0	0	-	0	0	-
Israel Aircraft	0	0.3	-	0	0.3	0	5.8	0	6.4
Mikoyan	0.1	-	-	0	0	0	0	0	0.1
PZL	0	0	0	0	0	-	0	0	-
Other	1.2	1.0	0.1	0	0	0.1	2.8	3.1	8.3
<b>TOTAL</b>	<b>2.7</b>	<b>4.0</b>	<b>3.7</b>	<b>0</b>	<b>0.9</b>	<b>0.2</b>	<b>19.6</b>	<b>11.9</b>	<b>42.9</b>

**Table 21a. Number of amphibious aircraft (a), landings and total hours flown in General Aviation and Regional Airline operations, by principal aircraft makes, 2002**

Aircraft Make	Number of Aircraft	Landings (b) ('000)	Hours Flown ('000)
Cessna	15	13.4	5.6
Consolidated	14	2.3	0.6
De Havilland	12	11.0	3.9
Amateur-built	18	1.3	0.5
Other	11	2.5	2.0
<b>TOTAL</b>	<b>70</b>	<b>30.5</b>	<b>12.6</b>

(a) Includes fixed-wing aircraft only.

(b) Survey responses covering 17 aircraft/11,531 landings (37.9 per cent of total landings) reported that 67.5 per cent of landings were on water and 32.5 per cent on land.

**Table 21b. Hours flown by amphibious aircraft (a) in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002 ('000 hours)**

Aircraft Make	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Cessna	0.2	0.3	0.3	0	-	0.1	4.6	0	5.6
Consolidated	0.3	0.1	-	0	0	-	0.2	0	0.6
De Havilland	0.7	0	-	0	0	-	3.2	0	3.9
Amateur-built	0.5	0	-	0	0	0	0	0	0.5
Other	1.5	-	-	0	0	-	0.4	0	2.0
<b>TOTAL</b>	<b>3.2</b>	<b>0.5</b>	<b>0.4</b>	<b>0</b>	<b>-</b>	<b>0.2</b>	<b>8.3</b>	<b>0</b>	<b>12.6</b>

(a) Includes fixed-wing aircraft only.



## SECTION E. ACTIVITY ANALYSIS

### AIRCRAFT PERFORMING PRIVATE FLYING

**Table 22a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Fixed Wing - Single Engine</b>											
A.E.S.L	15	956	548	11	5	0	0	3	0	0	567
Aeronca	5	356	165	0	25	0	0	0	0	0	190
Air Tractor	11	3,255	327	21	5	220	0	0	0	0	573
American Air	75	7,873	4,262	807	1,237	0	31	69	21	0	6,427
Auster	66	3,358	1,619	0	21	0	49	21	0	0	1,710
Beagle	7	227	214	0	0	0	0	0	0	0	214
Beechcraft	208	22,139	10,490	4,039	2,500	0	421	232	332	0	18,014
Bellanca/Champion	40	5,009	1,727	84	1,244	0	82	24	2	0	3,163
Boeing	14	1,355	418	0	0	0	0	0	0	0	418
Cessna	1,713	430,973	105,268	19,060	89,046	552	14,892	2,599	19,824	0	251,241
Cirrus	5	709	292	2	93	0	0	134	0	0	521
Commonwealth	22	2,296	556	5	23	0	0	0	0	0	584
Consolidated	8	727	281	43	26	0	0	10	0	0	360
De Havilland	139	14,103	4,185	191	591	50	1	99	1,390	0	6,507
Eagle	6	2,179	177	126	757	0	0	0	0	0	1,060
Fuji	8	940	328	0	165	0	2	1	3	0	499
Gippsland	9	2,665	324	0	0	0	0	0	0	0	324
Grob	10	17,795	66	0	6,260	0	0	0	0	0	6,326
Hedaro	16	4,070	735	101	668	0	85	1	3	0	1,593
Luscombe	8	699	168	0	0	0	0	0	0	0	168
Maule	27	2,800	1,063	130	32	0	8	14	43	0	1,290
Mooney	106	17,066	6,233	2,247	4,594	77	1	198	105	0	13,455
Nanchang	9	1,098	370	0	0	0	0	7	0	0	377
North American	25	1,947	784	26	25	0	105	16	0	0	956
NZAI	26	2,010	982	43	25	0	30	1	18	0	1,099
PZL	5	651	102	5	0	0	0	5	0	0	112
Piper	915	182,741	54,296	8,506	59,662	10	1,521	1,236	2,826	0	128,057
Pitts	14	2,565	550	0	296	0	0	7	22	0	875
Robin	7	2,190	229	33	1,095	0	5	16	0	0	1,378
Rockwell	19	2,142	851	186	339	0	0	24	0	0	1,400
Ryan	8	507	423	81	55	0	0	5	4	0	568
Slepecev	6	562	233	0	20	0	0	3	0	0	256
Socata	56	36,655	2,631	923	16,222	0	7	19	0	0	19,802
Stinson	12	334	295	0	0	0	0	6	0	0	301
Victa	52	3,245	2,021	193	212	0	4	23	0	0	2,453
Yakovlev	24	1,848	690	97	13	0	0	18	2	0	820
Amateur Built	450	30,419	19,757	1,263	360	0	1	252	0	0	21,633
Other	98	11,693	2,612	279	783	0	20	82	22	0	3,798
Sub Total	4,244	822,157	226,272	38,502	186,399	909	17,265	5,125	24,617	0	499,089
<b>Fixed Wing - Multi Engine</b>											
Aero Commander	8	1,340	299	135	24	0	88	17	609	278	1,450
Beechcraft	119	28,262	7,157	2,630	8,720	0	9,719	213	3,147	0	31,586
Cessna	102	17,967	5,018	3,120	640	0	89	221	6,754	34	15,876
De Havilland	6	796	43	0	10	0	0	3	556	0	612
Douglas	5	227	187	0	5	0	0	2	42	0	236
Partenavia	20	7,259	1,239	48	1,368	0	446	90	1,455	942	5,588
Piper	156	26,018	9,091	2,496	6,497	0	255	430	6,745	369	25,883
Ted Smith	8	995	268	461	19	0	0	11	0	0	759
Other	26	6,502	3,559	187	261	0	5	158	1,185	593	5,948
Sub Total	450	89,366	26,861	9,077	17,544	0	10,602	1,145	20,493	2,216	87,938
<b>TOTAL</b>	<b>4,694</b>	<b>911,523</b>	<b>253,133</b>	<b>47,579</b>	<b>203,943</b>	<b>909</b>	<b>27,867</b>	<b>6,270</b>	<b>45,110</b>	<b>2,216</b>	<b>587,027</b>

## HELICOPTERS PERFORMING PRIVATE FLYING

**Table 22b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Rotary Wing - Single Engine</b>											
Aerospatiale/Eurocopter	17	8,738	2,228	622	399	0	1,250	73	693	0	5,265
Agusta	5	1,748	782	260	25	27	514	19	99	0	1,726
Bell	55	26,884	2,299	1,260	1,767	223	6,287	394	4,563	0	16,793
Hughes/Schweizer	14	6,038	443	244	1,898	77	925	132	91	0	3,810
Robinson	112	103,241	7,812	1,465	9,914	439	20,502	640	3,117	0	43,889
Amateur Built	22	1,279	593	16	54	0	0	27	0	0	690
Other	9	2,545	133	170	26	350	637	65	100	0	1,481
Sub Total	234	150,473	14,290	4,037	14,083	1,116	30,115	1,350	8,663	0	73,654
<b>Rotary Wing - Multi Engine</b>											
Sub Total	8	3,207	788	11	270	0	1,948	278	221	0	3,516
<b>TOTAL</b>	<b>242</b>	<b>153,680</b>	<b>15,078</b>	<b>4,048</b>	<b>14,353</b>	<b>1,116</b>	<b>32,063</b>	<b>1,628</b>	<b>8,884</b>	<b>0</b>	<b>77,170</b>

## BALLOONS PERFORMING PRIVATE FLYING

**Table 22c. Number of balloons, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal balloon makes, 2002**

Balloon Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Balloon Works	5	244	47	0	0	0	0	0	158	0	205
Cameron	17	650	231	0	32	0	0	0	275	0	538
Kavanagh	82	3,088	1,644	0	84	0	0	0	1,022	0	2,750
Thunder/ Colt	10	310	99	0	11	0	0	0	121	0	231
Other	2	62	14	0	0	0	0	0	38	0	52
<b>TOTAL</b>	<b>116</b>	<b>4,354</b>	<b>2,035</b>	<b>0</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,614</b>	<b>0</b>	<b>3,776</b>

## AIRCRAFT PERFORMING BUSINESS FLYING

**Table 23a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Fixed Wing - Single Engine											
American Air	15	1,890	610	856	307	0	0	32	21	0	1,826
Beechcraft	126	12,335	2,031	7,966	957	0	365	131	1,145	0	12,595
Bellanca/Champion	10	1,870	318	168	282	0	3	19	0	0	790
Cessna	857	118,114	13,262	53,559	10,314	236	11,786	1,482	7,515	0	98,154
Consolidated Aeronautics	5	151	39	136	5	0	0	0	0	0	180
De Havilland	15	1,808	208	394	66	50	0	4	232	0	954
Maule	16	1,035	150	570	0	0	175	12	0	0	907
Mooney	56	5,266	1,051	3,852	244	77	1	103	0	0	5,328
Piper	319	40,073	7,965	17,243	4,864	58	318	478	1,575	0	32,501
Rockwell	9	505	95	364	12	0	0	9	0	0	480
Socata	17	2,157	626	1,268	83	0	7	19	0	0	2,003
Victa	9	589	237	193	16	0	4	10	0	0	460
Amateur Built	60	5,487	1,283	3,430	85	0	0	96	0	0	4,894
Other	53	9,475	894	4,076	1,787	105	1,057	150	4	0	8,073
Sub Total	1,567	200,755	28,769	94,075	19,022	526	13,716	2,545	10,492	0	169,145
Fixed Wing - Multi Engine											
Aero Commander	13	3,849	96	364	41	0	171	18	1,216	656	2,562
Beechcraft	109	29,230	1,807	8,974	2,156	0	9,631	192	3,871	0	26,631
Cessna	108	18,938	1,451	7,469	405	0	211	269	6,734	225	16,764
Partenavia	7	917	154	393	124	0	346	34	53	0	1,104
Piper	133	29,141	1,756	8,830	1,216	0	245	229	9,902	1,125	23,303
Ted Smith	13	1,834	263	758	30	0	0	16	512	0	1,579
Other	33	11,765	184	2,913	242	0	8	17	3,652	0	7,016
Sub Total	416	95,674	5,711	29,701	4,214	0	10,612	775	25,940	2,006	78,959
TOTAL	1,983	296,429	34,480	123,776	23,236	526	24,328	3,320	36,432	2,006	248,104

## HELICOPTERS PERFORMING BUSINESS FLYING

**Table 23b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft Landings		Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Rotary Wing - Single Engine											
Aerospatiale/Eurocopter	17	10,389	784	<b>1,319</b>	287	0	1,839	58	519	0	4,806
Agusta	7	3,996	587	<b>326</b>	96	0	796	12	196	0	2,013
Bell	74	44,893	934	<b>3,030</b>	1,539	650	10,904	367	4,013	0	21,437
Hughes	6	3,482	17	<b>206</b>	1,005	0	458	54	104	0	1,844
Kawasaki	14	7,327	55	<b>746</b>	1	0	1,707	11	476	0	2,996
McDonnell Douglas	6	2,561	10	<b>68</b>	2	0	846	13	192	0	1,131
Robinson	103	50,371	1,274	<b>5,876</b>	1,672	108	13,587	151	3,539	0	26,207
Schweizer	8	6,429	97	<b>182</b>	730	77	1,533	74	326	0	3,019
Other	12	5,256	35	<b>181</b>	13	0	1,501	12	408	0	2,150
Sub Total	247	134,704	3,793	<b>11,934</b>	5,345	835	33,171	752	9,773	0	65,603
Rotary Wing - Multi Engine											
Aerospatiale/Eurocopter	5	5,606	0	<b>848</b>	36	0	850	0	788	0	2,522
Bell	8	10,580	0	<b>566</b>	245	0	2,672	82	893	0	4,458
Kawasaki	5	6,279	0	<b>359</b>	119	0	1,609	32	599	0	2,718
Sikorsky	7	24,799	56	<b>4,576</b>	0	0	0	4	0	0	4,636
Other	2	481	66	<b>46</b>	2	0	27	11	223	0	375
Sub Total	27	47,745	122	<b>6,395</b>	402	0	5,158	129	2,503	0	14,709
TOTAL	274	182,449	3,915	<b>18,329</b>	5,747	835	38,329	881	12,276	0	80,312

## BALLOONS PERFORMING BUSINESS FLYING

**Table 23c. Number of balloons, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal balloon makes, 2002**

Balloon Make	No of Aircraft Landings		Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Other	3	177	0	<b>131</b>	3	0	0	0	0	0	134
TOTAL	3	177	0	<b>131</b>	3	0	0	0	0	0	134

## AIRCRAFT PERFORMING TRAINING FLYING

**Table 24a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Fixed Wing - Single Engine</b>											
American Air	17	4,980	1,690	505	<b>1,388</b>	0	31	52	21	0	3,687
Auster	5	239	54	11	<b>30</b>	0	0	21	0	0	116
Beechcraft	80	16,774	2,962	3,239	<b>5,545</b>	0	7	196	932	0	12,881
Bellanca/Champion	26	4,896	1,124	66	<b>2,246</b>	0	625	48	2	0	4,111
Cessna	816	501,633	40,922	10,015	<b>151,140</b>	544	8,857	2,372	45,178	1,154	260,182
Consolidated Aeronautics	5	1,794	191	4	<b>41</b>	0	0	12	150	0	398
De Havilland	21	10,734	1,228	74	<b>781</b>	0	1	50	2,305	0	4,439
Eagle	5	3,410	9	0	<b>1,686</b>	0	0	0	0	0	1,695
Grob	50	37,223	66	0	<b>25,253</b>	0	0	0	0	0	25,319
Hedaro	8	4,312	176	0	<b>1,282</b>	0	85	2	3	0	1,548
Maule	7	1,753	139	0	<b>164</b>	0	98	25	291	0	717
Mooney	35	13,445	2,710	1,544	<b>5,165</b>	77	1	137	398	0	10,032
Pacific Aerospace	26	39,178	0	0	<b>17,519</b>	0	0	0	0	0	17,519
Pilatus	19	18,679	0	1,946	<b>364</b>	0	14,746	156	947	0	18,159
Piper	482	199,811	29,323	4,247	<b>89,719</b>	31	1,430	1,207	4,347	0	130,304
Robin	5	3,104	63	100	<b>2,104</b>	0	5	24	0	0	2,296
Rockwell	6	1,338	305	150	<b>341</b>	0	0	21	0	0	817
Socata	52	46,202	1,328	370	<b>21,721</b>	0	4	10	0	0	23,433
Victa	15	4,269	574	104	<b>971</b>	0	0	42	0	0	1,691
Amateur Built	30	2,898	917	748	<b>595</b>	0	0	21	0	0	2,281
Other	63	16,812	1,683	249	<b>5,068</b>	990	3,433	794	1,200	0	13,417
Sub Total	1,773	933,484	85,464	23,372	<b>333,123</b>	1,642	29,323	5,190	55,774	1,154	535,042
<b>Fixed Wing - Multi Engine</b>											
Aero Commander	13	6,007	68	63	<b>110</b>	0	397	63	3,384	655	4,740
Beechcraft	155	93,275	2,917	3,724	<b>21,503</b>	0	40,832	750	17,623	982	88,331
Britten Norman	11	10,465	3	0	<b>113</b>	0	128	225	2,860	2,012	5,341
Cessna	153	67,339	1,661	3,414	<b>6,832</b>	0	3,492	1,088	32,858	8,388	57,733
De Havilland	9	10,552	10	0	<b>85</b>	0	8	40	3,422	4,421	7,986
Embraer	6	5,482	0	0	<b>126</b>	0	0	21	1,717	3,697	5,561
Fairchild	17	15,533	0	0	<b>255</b>	0	0	176	15,281	1,124	16,836
Grumman	5	1,749	845	20	<b>424</b>	0	0	24	60	0	1,373
Partenavia	26	12,272	1,071	115	<b>3,154</b>	0	728	110	2,891	942	9,011
Piper	165	54,231	4,649	1,511	<b>15,281</b>	0	1,067	683	14,144	9,076	46,411
Ted Smith	8	2,260	104	422	<b>245</b>	0	0	9	932	0	1,712
Other	26	10,150	692	1,716	<b>786</b>	0	8	76	4,772	1,924	9,974
Sub Total	594	289,315	12,020	10,985	<b>48,914</b>	0	46,660	3,265	99,944	33,221	255,009
<b>TOTAL</b>	<b>2,367</b>	<b>1,222,799</b>	<b>97,484</b>	<b>34,357</b>	<b>382,037</b>	<b>1,642</b>	<b>75,983</b>	<b>8,455</b>	<b>155,718</b>	<b>34,375</b>	<b>790,051</b>

## HELICOPTERS PERFORMING TRAINING FLYING

**Table 24b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Rotary Wing - Single Engine											
Aerospatiale/Eurocopter	33	19,834	1,422	579	826	0	5,187	383	2,748	0	11,145
Bell	70	49,733	1,213	1,567	3,748	897	11,619	742	7,024	0	26,810
Hughes/Schweizer	13	8,283	160	120	2,190	0	1,638	156	618	0	4,882
Robinson	90	79,895	1,896	1,040	18,533	517	10,135	648	3,358	0	36,127
Other	19	9,887	707	276	395	484	1,602	146	1,087	0	4,697
Sub Total	225	167,632	5,398	3,582	25,692	1,898	30,181	2,075	14,835	0	83,661
Rotary Wing - Multi Engine											
Aerospatiale/Eurocopter	15	20,949	546	400	1,005	0	5,118	222	6,083	0	13,374
Bell	13	14,618	0	15	744	0	4,935	307	612	0	6,613
Kawasaki	9	6,979	88	23	515	0	3,607	320	389	0	4,942
Sikorsky	10	9,837	0	0	596	0	446	114	2,811	0	3,967
Other	2	742	0	36	13	0	762	18	2	0	831
Sub Total	49	53,125	634	474	2,873	0	14,868	981	9,897	0	29,727
TOTAL	274	220,757	6,032	4,056	28,565	1,898	45,049	3,056	24,732	0	113,388

## BALLOONS PERFORMING TRAINING FLYING

**Table 24c. Number of balloons, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal balloon makes, 2002**

Balloon Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Kavanagh	12	608	228	92	168	0	0	0	156	0	644
Other	4	167	22	0	45	0	0	0	48	0	115
TOTAL	16	775	250	92	213	0	0	0	204	0	759

## AIRCRAFT PERFORMING AGRICULTURAL FLYING

**Table 25a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Fixed Wing - Single Engine											
Air Parts	17	42,671	0	0	0	4,782	0	191	0	0	4,973
Air Tractor	79	46,720	22	0	6	20,252	145	55	0	0	20,480
Ayres	35	15,655	0	0	12	7,554	669	130	0	0	8,365
Cessna	63	27,571	246	207	190	8,855	391	209	48	0	10,146
Gippsland	9	7,544	0	0	122	2,788	0	7	0	0	2,917
Grumman	11	6,167	0	0	0	1,806	0	22	0	0	1,828
PZL	11	7,699	0	0	0	2,338	0	21	0	0	2,359
Piper	64	30,319	76	248	197	10,566	14	79	14	0	11,194
Rockwell	7	2,772	0	0	0	1,188	0	11	0	0	1,199
Transavia	9	9,063	0	0	0	1,608	0	2	0	0	1,610
Other	9	17,932	35	280	36	1,624	51	102	0	0	2,128
Sub Total	314	214,113	379	735	563	63,361	1,270	829	62	0	67,199
Fixed Wing - Multi Engine											
Sub Total	0	0	0	0	0	0	0	0	0	0	0
TOTAL	314	214,113	379	735	563	63,361	1,270	829	62	0	67,199

## HELICOPTERS PERFORMING AGRICULTURAL FLYING

**Table 25b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Rotary Wing - Single Engine											
Bell	17	15,290	2	20	35	3,107	2,880	252	47	0	6,343
Hiller	6	7,489	5	0	18	1,460	724	128	58	0	2,393
Hughes/Schweizer	7	3,064	22	3	0	944	525	24	0	0	1,518
Robinson	12	13,327	34	278	303	1,010	2,641	241	22	0	4,529
Other	7	7,828	179	0	0	910	1,946	0	78	0	3,113
TOTAL	49	46,998	242	301	356	7,431	8,716	645	205	0	17,896

## AIRCRAFT PERFORMING AERIAL WORK FLYING

**Table 26a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Fixed Wing - Single Engine</b>											
Air Tractor	8	2,367	0	0	2	55	1,059	11	0	0	1,127
Auster	5	285	83	0	0	0	49	0	0	0	132
Beechcraft	9	1,118	134	334	38	0	515	47	151	0	1,219
Bellanca/Champion	11	5,146	95	23	187	0	1,645	54	0	0	2,004
Cessna	424	153,887	12,005	8,438	22,059	158	49,408	1,479	15,042	0	108,589
Hedaro	5	1,891	96	41	408	0	219	1	3	0	768
IMCO	6	3,644	0	0	0	1	524	13	0	0	538
Maule	5	921	13	30	59	0	281	5	0	0	388
North American	5	192	40	0	5	0	168	7	0	0	220
Pilatus	17	17,235	0	1,597	317	0	14,746	151	0	0	16,811
Piper	102	62,294	4,106	613	6,426	10	10,164	162	1,698	0	23,179
PZL	11	1,014	0	0	0	0	833	0	0	0	833
Other	33	10,325	215	407	1,313	589	7,021	904	171	0	10,620
Sub Total	641	260,319	16,787	11,483	30,814	813	86,632	2,834	17,065	0	166,428
<b>Fixed Wing - Multi Engine</b>											
Aero Commander	15	6,853	72	46	70	0	1,744	592	1,437	933	4,894
Beechcraft	55	48,268	373	896	1,223	0	42,409	619	1,611	763	47,894
Britten Norman	11	5,779	3	0	80	0	1,503	89	1,188	593	3,456
Cessna	60	19,363	182	284	442	0	8,046	557	7,374	2,547	19,432
De Havilland	7	2,011	0	0	13	0	1,312	26	49	635	2,035
Partenavia	10	5,905	119	111	208	0	742	125	1,262	942	3,509
Piper	29	8,015	372	222	793	0	1,407	176	3,474	1,486	7,930
Other	10	4,510	0	172	8	0	2,487	39	1,733	0	4,439
Sub Total	197	100,704	1,121	1,731	2,837	0	59,650	2,223	18,128	7,899	93,589
<b>TOTAL</b>	<b>838</b>	<b>361,023</b>	<b>17,908</b>	<b>13,214</b>	<b>33,651</b>	<b>813</b>	<b>146,282</b>	<b>5,057</b>	<b>35,193</b>	<b>7,899</b>	<b>260,017</b>



## HELICOPTERS PERFORMING AERIAL WORK FLYING

**Table 26b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Rotary Wing - Single Engine</b>											
Aerospatiale/Eurocopter	50	31,234	1,317	585	706	83	13,512	327	3,401	0	19,931
Agusta	8	3,968	195	66	71	27	1,590	11	270	0	2,230
Bell	143	97,505	971	1,886	2,797	2,050	37,674	894	10,997	0	57,269
Hiller	5	7,443	5	15	18	1,193	962	91	116	0	2,400
Hughes	23	10,206	226	38	1,252	53	5,948	277	329	0	8,123
Kawasaki	24	16,642	55	292	51	100	5,154	95	1,587	0	7,334
Robinson	244	253,136	2,982	1,660	8,054	721	92,885	1,015	7,372	0	114,689
Schweizer	12	7,112	97	182	731	77	2,408	98	326	0	3,919
Other	14	7,031	14	164	42	0	2,311	51	542	0	3,124
Sub Total	523	434,277	5,862	4,888	13,722	4,304	162,444	2,859	24,940	0	219,019
<b>Rotary Wing - Multi Engine</b>											
Aerospatiale/Eurocopter	14	18,555	546	448	521	0	6,541	78	1,740	0	9,874
Bell	15	19,282	0	566	667	0	5,914	270	1,027	0	8,444
Kawasaki	14	12,015	107	359	499	0	4,678	301	1,459	0	7,403
Sikorsky	6	4,432	0	0	492	0	446	71	484	0	1,493
Other	2	1,083	66	10	11	0	789	29	221	0	1,126
Sub Total	51	55,367	719	1,383	2,190	0	18,368	749	4,931	0	28,340
<b>TOTAL</b>	<b>574</b>	<b>489,644</b>	<b>6,581</b>	<b>6,271</b>	<b>15,912</b>	<b>4,304</b>	<b>180,812</b>	<b>3,608</b>	<b>29,871</b>	<b>0</b>	<b>247,359</b>

## BALLOONS PERFORMING AERIAL WORK FLYING

**Table 26c. Number of balloons, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal balloon makes, 2002**

Balloon Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Other	0	0	0	0	0	0	0	0	0	0	0
Sub Total	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## AIRCRAFT PERFORMING CHARTER FLYING

**Table 27a. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Fixed Wing - Single Engine</b>											
Beechcraft	16	4,867	254	107	528	0	70	61	<b>3,352</b>	0	4,372
Cessna	426	263,098	14,578	3,641	33,977	14	5,429	2,087	<b>104,446</b>	0	164,172
De Havilland	36	22,843	437	5	651	0	2	84	<b>6,919</b>	0	8,098
Mooney	11	8,746	1,623	0	3,883	0	0	70	<b>586</b>	0	6,162
Piper	91	44,548	5,249	1,040	10,917	10	401	280	<b>12,480</b>	0	30,377
Other	21	9,668	557	293	572	0	13	55	<b>4,076</b>	0	5,566
Sub Total	601	353,770	22,698	5,086	50,528	24	5,915	2,637	<b>131,859</b>	0	218,747
<b>Fixed Wing - Multi Engine</b>											
Aero Commander	44	22,926	160	186	110	0	488	76	<b>14,053</b>	933	16,006
Beechcraft	130	52,621	1,286	1,783	3,086	0	968	438	<b>35,604</b>	1,132	44,297
British Aerospace	10	7,447	0	20	8	0	0	7	<b>8,842</b>	411	9,288
Britten Norman	18	14,481	18	10	113	0	128	235	<b>4,697</b>	2,012	7,213
Cessna	195	90,379	1,472	1,938	1,284	0	1,416	705	<b>57,000</b>	9,787	73,602
De Havilland	13	11,505	12	40	22	0	5	44	<b>10,180</b>	635	10,938
Embraer	14	10,293	0	51	126	0	0	35	<b>5,547</b>	4,431	10,190
Fairchild	33	25,380	0	0	255	0	0	199	<b>29,183</b>	1,268	30,905
Gates Learjet	7	4,260	0	20	0	0	400	0	<b>2,432</b>	0	2,852
Israel Aircraft	8	8,993	0	264	5	0	340	0	<b>5,763</b>	0	6,372
Partenavia	26	13,448	790	44	1,551	0	380	103	<b>4,500</b>	942	8,310
Piper	237	99,657	2,177	1,706	4,588	0	441	779	<b>56,885</b>	13,982	80,558
Swearingen	8	4,064	0	30	16	0	15	2	<b>2,783</b>	218	3,064
Ted Smith	9	5,756	0	124	31	0	0	25	<b>3,709</b>	0	3,889
Other	28	10,609	1,096	449	342	0	0	94	<b>6,587</b>	0	8,568
Sub Total	780	381,819	7,011	6,665	11,537	0	4,581	2,742	<b>247,765</b>	35,751	316,052
<b>TOTAL</b>	<b>1,381</b>	<b>735,589</b>	<b>29,709</b>	<b>11,751</b>	<b>62,065</b>	<b>24</b>	<b>10,496</b>	<b>5,379</b>	<b>379,624</b>	<b>35,751</b>	<b>534,799</b>

## HELICOPTERS PERFORMING CHARTER FLYING

**Table 27b. Number of helicopters, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal helicopter makes, 2002**

Helicopter Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Rotary Wing - Single Engine</b>											
Aerospatiale/Eurocopter	37	25,359	916	559	526	0	4,918	335	<b>5,429</b>	0	12,683
Agusta	6	3,075	126	79	10	0	1,260	19	<b>290</b>	0	1,784
Bell	125	105,479	496	1,444	2,404	1,451	19,369	916	<b>22,732</b>	0	48,812
Hughes	12	7,265	55	33	61	0	4,126	219	<b>896</b>	0	5,390
Kawasaki	21	12,607	0	150	54	0	3,007	76	<b>2,841</b>	0	6,128
McDonnell Douglas	6	4,377	0	50	10	200	714	7	<b>651</b>	0	1,632
Robinson	96	74,434	1,078	1,115	8,664	179	15,077	344	<b>8,643</b>	0	35,100
Schweizer	6	4,737	71	175	30	0	1,194	26	<b>326</b>	0	1,822
Other	11	7,744	15	129	30	484	2,111	75	<b>494</b>	0	3,338
Sub Total	320	245,077	2,757	3,734	11,789	2,314	51,776	2,017	<b>42,302</b>	0	116,689
<b>Rotary Wing -Multi Engine</b>											
Aerospatiale/Eurocopter	11	15,188	0	448	505	0	852	155	<b>6,871</b>	0	8,831
Bell	10	8,994	0	552	138	0	1,759	93	<b>1,499</b>	0	4,041
Kawasaki	10	8,156	0	350	81	0	1,289	37	<b>3,002</b>	0	4,759
Sikorsky	9	8,511	0	0	279	0	390	103	<b>2,811</b>	0	3,583
Other	2	481	66	46	2	0	27	11	<b>223</b>	0	375
Sub Total	42	41,330	66	1,396	1,005	0	4,317	399	<b>14,406</b>	0	21,589
<b>TOTAL</b>	<b>362</b>	<b>286,407</b>	<b>2,823</b>	<b>5,130</b>	<b>12,794</b>	<b>2,314</b>	<b>56,093</b>	<b>2,416</b>	<b>56,708</b>	<b>0</b>	<b>138,278</b>

## BALLOONS PERFORMING CHARTER FLYING

**Table 27c. Number of balloons, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal balloon makes, 2002**

Balloon Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
Cameron	12	854	66	0	29	0	0	0	<b>533</b>	0	628
Kavanagh	98	8,392	252	0	38	0	0	0	<b>7,289</b>	0	7,579
Thunder/ Colt	17	1,405	30	0	11	0	0	0	<b>1,136</b>	0	1,177
Other	8	536	51	0	0	0	0	0	<b>372</b>	0	423
<b>TOTAL</b>	<b>135</b>	<b>11,187</b>	<b>399</b>	<b>0</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,330</b>	<b>0</b>	<b>9,807</b>

## AIRCRAFT PERFORMING REGIONAL AIRLINE FLYING

**Table 28. Number of aircraft, hours flown and landings in General Aviation and Regional Airline operations, by flying activity and principal aircraft makes, 2002**

Aircraft Make	No of Aircraft	Landings	Private	Business	Training	Agri-culture	Aerial Work	Test & Ferry	Charter	Regional Airline	TOTAL
<b>Fixed Wing - Single Engine</b>											
Other	3	3,939	0	0	21	0	0	43	0	<b>3,434</b>	3,498
Sub Total	3	3,939	0	0	21	0	0	43	0	<b>3,434</b>	3,498
<b>Fixed Wing - Multi Engine</b>											
Beechcraft	15	17,098	0	0	25	0	200	56	2,269	<b>11,059</b>	13,609
British Aerospace	8	15,538	0	0	8	0	0	2	131	<b>15,570</b>	15,711
Britten Norman	5	7,565	3	0	13	0	5	100	321	<b>2,400</b>	2,842
Cessna	46	40,619	106	20	200	0	55	221	15,261	<b>11,801</b>	27,664
De Havilland	39	88,769	0	0	70	0	5	16	49	<b>83,783</b>	83,923
Embraer	12	12,307	0	0	71	0	0	21	122	<b>13,302</b>	13,516
Fairchild	29	35,940	0	0	45	0	0	74	6,823	<b>29,752</b>	36,694
Fokker	8	11,221	0	0	0	0	0	0	0	<b>13,922</b>	13,922
Piper	32	30,860	222	100	190	0	52	114	4,115	<b>15,020</b>	19,813
Saab	23	42,922	0	0	0	0	0	0	0	<b>43,970</b>	43,970
Other	11	11,740	66	32	77	0	159	75	816	<b>6,112</b>	7,337
Sub Total	228	314,579	397	152	699	0	476	679	29,907	<b>246,691</b>	279,001
<b>Rotary Wing - Single Engine</b>											
Sub Total	0	0	0	0	0	0	0	0	0	<b>0</b>	0
<b>TOTAL</b>	<b>231</b>	<b>318,518</b>	<b>397</b>	<b>152</b>	<b>720</b>	<b>0</b>	<b>476</b>	<b>722</b>	<b>29,907</b>	<b>250,125</b>	<b>282,499</b>

**SECTION F. ENGINE AND FUEL TYPE.**

**Table 29. Number of aircraft, engines and hours flown in General Aviation and Regional Airline operations, by propulsion type and principal engine makes, 2002**

Engine Type	Number of Aircraft	Number of Engines	Total Hours Flown ('000)
<b>Reciprocating Engines</b>			
Amateur Built Aircraft			
Aeropower	6	6	-
Ardem	5	5	0.3
Avtech	39	39	1.4
Bombardier Rotax	62	62	2.4
Continental	88	88	2.0
Lycoming	394	394	16.0
Revmaster	36	36	0.7
Subaru	12	12	0.3
Volkswagen	25	25	0.2
Other	37	37	0.9
Sub Total	704	704	24.2
Fixed Wing Single Engine Aircraft			
Avtech	7	7	0.4
Blackburn	22	22	0.2
Bombardier Rotax	54	54	4.3
Bristol	8	8	0.7
Continental	2,487	2,487	290.8
De Havilland	384	384	7.3
Franklin	15	15	0.3
General Motors Holden	12	12	0.9
Jacobs	14	14	0.5
Lycoming	3,122	3,122	535.6
Packard	8	8	0.1
PZL	32	32	2.0
Pratt & Whitney	154	154	12.3
Rolls-Royce	16	16	0.4
Vedeney	25	25	0.8
Walter	7	7	0.1
Warner	7	7	0.1
Wright	18	18	0.4
Zhou Zhou Housai	15	15	0.4
Other	28	28	0.8
Sub Total	6,435	6,435	858.4
Fixed Wing Multi Engine Aircraft			
Continental	575	1,150	123.9
De Havilland	15	35	0.1
Lycoming	632	1,270	159.2
Pratt & Whitney	31	64	1.6
Wright	8	18	0.1
Other	8	17	0.2
Sub Total	1,269	2,554	285.1
Rotary Wing Single Engine Aircraft (Includes Amateur Built & Gyroplanes)			
Bombardier-Rotax	8	8	0.1
Lycoming	599	599	168.2
Rotorway	34	34	0.6
Other	5	5	-
Sub Total	646	646	168.8
Balloons and Airships	1	2	0
Sub Total	1	2	0

**Table 29. Number of aircraft, engines and hours flown in General Aviation and Regional Airline operations, by propulsion type and principal engine makes, 2002 - continued**

Engine Type	Number of Aircraft	Number of Engines	Total Hours Flown ('000)
<b>Turbofan</b>			
Fixed Wing Multi Engine Aircraft			
Garrett	28	59	11.6
Lycoming	10	40	16.8
Pratt and Whitney Canada	26	52	8.2
Rolls-Royce	7	14	4.5
Other	12	25	5.4
Sub Total	76	176	42.1
Fixed Wing Single Engine Aircraft			
Sub Total	3	3	0.1
<b>Turbojet</b>			
Fixed Wing Single Engine Aircraft			
IL	5	5	-
Klimov	7	7	0.1
Rolls-Royce	14	14	0.1
Other	11	11	-
Sub Total	32	32	0.2
Fixed Wing Multi Engine Aircraft			
Sub Total	9	18	0.5
<b>Turboprop</b>			
Fixed Wing Single Engine Aircraft			
Garrett	33	33	8.2
Pratt and Whitney Canada	160	160	58.1
Other	6	6	0.1
Sub Total	199	199	66.4
Fixed Wing Multi Engine Aircraft			
Allison	5	10	0.8
Garrett	112	224	84.4
General Electric	24	48	44.0
Pratt and Whitney Canada	201	402	204.3
Rolls-Royce	10	20	3.9
Other	0	0	0
Sub Total	352	704	337.4

**Table 29. Number of aircraft, engines and hours flown in General Aviation and Regional Airline operations, by propulsion type and principal engine makes, 2002 - continued**

Engine Type	Number of Aircraft	Number of Engines	Total Hours Flown ('000)
Turboshaft (rotorcraft)			
Rotary Wing Single Engine Aircraft			
Allison	226	226	73.6
Lycoming	8	8	1.4
Turbomeca	69	69	22.0
Other	8	8	2.0
Sub Total	311	311	99.1
Rotary Wing Multi Engine Aircraft			
Allison	7	14	1.7
Lycoming	21	42	10.3
Pratt and Whitney Canada	18	36	8.6
Turbomeca	35	70	23.3
Sub Total	81	162	43.8
Rotary			
Amateur Built Fixed Wing Single Engine			
Sub Total	1	1	0
Fixed Wing Single Engine Aircraft			
Sub Total	1	1	0
No Power			
Balloons	335	0	11.7
Sub Total	335	0	11.7
<b>TOTAL</b>	<b>10,455</b>	<b>11,948</b>	<b>1,937.8</b>

**Table 30. Number of aircraft and hours flown in General Aviation and Regional Airline operations, by propulsion fuel type, 2002**

Fuel Type	Number of Aircraft	Total Hours Flown ('000)
Amateur Built		
Gasoline	704	24.1
Kerosene	3	0.1
Sub Total	707	24.2
Fixed Wing Single Engine		
Gasoline	6,436	858.3
Kerosene	232	66.8
Sub Total	6,668	925.1
Fixed Wing Multi Engine		
Gasoline	1,269	285.1
Kerosene	437	379.9
Sub Total	1,706	665.0
Rotary Wing Amateur Built		
Gasoline	53	0.7
Sub Total	53	0.7
Rotary Wing Single Engine		
Gasoline	595	168.6
Kerosene	309	98.6
Sub Total	904	267.2
Rotary Wing Multi Engine		
Kerosene	81	43.8
Sub Total	81	43.8
Balloons & Airships		
None	335	11.7
Gasoline	1	0
Sub Total	336	11.7
TOTAL	10,455	1,937.8



## SECTION G. COUNTRY OF MANUFACTURE

**Table 31. Number of aircraft and hours flown in General Aviation and Regional Airline operations, by country of manufacture, 2002**

Country	Number of Aircraft	Total Hours Flown ('000)
<b>Fixed Wing Single Engine (a)</b>		
Australia	1,120	47.3
Canada	49	8.9
China	15	0.4
Czechoslovakia	14	0.4
France	111	28.6
Germany	65	25.5
Italy	17	0.6
Japan	13	0.5
New Zealand	110	29.6
Poland	46	3.4
Russia	29	0.9
Switzerland	21	18.2
United Kingdom	302	4.7
United States	5,456	780.2
Other	7	0.1
Sub Total	7,375	949.3
<b>Fixed Wing Multi Engine</b>		
Australia	15	1.2
Brazil	26	19.1
Canada	61	95.7
France	12	3.0
Holland	13	15.3
Israel	8	6.4
Italy	45	11.1
Sweden	24	44.0
United Kingdom	83	38.2
United States	1,413	429.4
Other	6	1.7
Sub Total	1,706	665.0
<b>Rotary Wing Single Engine (a)</b>		
Australia	53	0.7
Canada	15	4.9
France	74	23.8
Italy	18	3.3
Japan	44	9.6
United Kingdom	5	0.7
United States	746	224.8
Other	2	-
Sub Total	957	267.9

(a) Includes Amateur Built aircraft.

**Table 31. Number of aircraft and hours flown in General Aviation and Regional Airline operations, by country of manufacture, 2002 - continued**

Country	Number of Aircraft	Total Hours Flown (‘000)
Rotary Wing Multi Engine		
France	21	16.0
Japan	19	9.0
United States	36	17.1
Other	5	1.7
Sub Total	81	43.8
Balloons and Airships		
Australia	212	9.3
United Kingdom	93	2.1
United States	29	0.4
Other	2	-
Sub Total	336	11.7
<b>TOTAL</b>	<b>10,455</b>	<b>1,937.8</b>

## SECTION H. AGE OF AIRCRAFT

**Table 32. Number of aircraft and hours flown in General Aviation and Regional Airline operations, by age (a) of aircraft, 2002**

Category	Age (years)	Number of Aircraft	Total Hours Flown ('000)
<b>Amateur Built</b>			
	New this year	35	0.7
	1-5	277	12.0
	6-10	122	5.4
	11-15	82	2.0
	16-20	77	1.6
	21-25	62	1.7
	26-30	32	0.4
	31-35	12	0.3
	36-40	5	0.1
	Over 40	3	-
	Sub Total	707	24.2
<b>Fixed Wing Single Engine</b>			
	New this year	24	2.0
	1-5	231	75.1
	6-10	209	64.0
	11-15	185	40.3
	16-20	229	42.9
	21-25	1,821	360.2
	26-30	1,169	167.0
	31-35	721	66.2
	36-40	884	66.3
	Over 40	1,195	41.2
	Sub Total	6,668	925.1
<b>Fixed Wing Multi Engine</b>			
	New this year	5	2.8
	1-5	45	32.7
	6-10	97	100.1
	11-15	87	98.4
	16-20	126	100.0
	21-25	582	194.4
	26-30	362	87.6
	31-35	205	34.5
	36-40	107	9.4
	Over 40	90	5.0
	Sub Total	1,706	665.0

(a) Calculated by subtracting year of manufacture from the current year.

**Table 32. Number of aircraft and hours flown in General Aviation and Regional Airline operations, by age (a) of aircraft, 2002 - continued**

Category	Age (years)	Number of Aircraft	Total Hours Flown ('000)
<b>Rotary Wing Amateur Built</b>			
	New this year	1	0.1
	1-5	39	0.6
	6-10	13	0.1
	Sub Total	53	0.7
<b>Rotary Wing Single Engine</b>			
	New this year	20	3.4
	1-5	132	41.3
	6-10	93	31.7
	11-15	193	65.4
	16-20	83	25.1
	21-25	157	51.9
	26-30	84	19.8
	31-35	82	17.1
	36-40	48	9.9
	Over 40	12	1.5
	Sub Total	904	267.2
<b>Rotary Wing Multi Engine</b>			
	New this year	0	0
	1-5	5	2.8
	6-10	10	7.4
	11-15	28	13.2
	16-20	14	8.8
	21-25	22	11.1
	26-30	2	0.5
	Sub Total	81	43.8
<b>Balloons and Airshps</b>			
	New this year	17	0.5
	1-5	91	5.8
	6-10	74	2.9
	11-15	75	1.4
	16-20	54	0.8
	21-25	21	0.2
	26-30	4	-
	Sub Total	336	11.7
<b>TOTAL</b>		<b>10,455</b>	<b>1,937.8</b>

(a) Calculated by subtracting year of manufacture from the current year.

## SECTION I. FREQUENCY DISTRIBUTION

**Table 33. Frequency distribution of aircraft in General Aviation and Regional Airline operations, by aircraft category and total hours flown, years ended 31 December 1992, 2001 and 2002**

Category	Total Hours Flown	Number of Aircraft		
		1992	At Dec 2001 (a)	At Dec 2002 (a)
<b>Amateur Built</b>				
	0	86	208	211
	1-10	65	89	81
	11-20	63	60	47
	21-30	63	40	71
	31-40	31	91	86
	41-50	20	37	54
	51-60	11	30	33
	61-70	8	18	25
	71-80	5	20	13
	81-90	6	26	20
	91-100	4	10	15
	101-110	4	4	12
	111-120	3	8	6
	121-130	2	3	7
	131-140		3	3
	141-150	1	4	4
	151-160		4	1
	161-170	1	2	2
	171-180	1	1	
	181-190		3	3
	191-200		2	4
	201-250		6	3
	251-300		4	4
	301-350	2		2
	351-400	2		
	451-500	1		
	<b>Sub Total</b>	<b>379</b>	<b>673</b>	<b>707</b>
<b>Fixed Wing Single Engine</b>				
	0	565	992	1040
	1-10	366	500	471
	11-20	407	470	410
	21-30	334	391	402
	31-40	493	619	608
	41-50	324	339	340
	51-60	264	257	273
	61-70	231	215	219
	71-80	231	200	228
	81-90	198	165	198
	91-100	176	200	182
	101-110	180	143	149
	111-120	137	109	125
	121-130	125	105	101
	131-140	97	87	78
	141-150	122	98	97
	151-160	82	89	74
	161-170	75	59	54
	171-180	78	74	52
	181-190	62	48	48
	191-200	76	85	74

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys. These earlier statistics are not directly comparable with year 2001 and 2002 results, as the annual survey covers aircraft registered at the end of December only.

**Table 33. Frequency distribution of aircraft in General Aviation and Regional Airline operations, by aircraft category and total hours flown, years ended 31 December 1992, 2001 and 2002 - continued**

Category	Total Hours Flown	Number of Aircraft		
		1992	At Dec 2001 (a)	At Dec 2002 (a)
<b>Fixed Wing Single Engine</b>				
	201-250	288	254	251
	251-300	225	183	214
	301-350	192	148	151
	351-400	138	135	132
	401-450	147	120	126
	451-500	137	96	93
	501-600	174	167	161
	601-700	131	103	116
	701-800	70	87	63
	801-900	45	47	50
	901-1000	19	38	34
	1001-1500	44	47	48
	1501-2000	6	8	6
	Over 2000	3	2	
	Sub Total	6,242	6,680	6,668
<b>Fixed Wing Multi Engine</b>				
	0	142	193	205
	1-10	53	51	55
	11-20	44	49	38
	21-30	43	36	42
	31-40	34	37	33
	41-50	46	47	45
	51-60	35	48	51
	61-70	45	35	38
	71-80	46	36	31
	81-90	55	33	39
	91-100	48	45	34
	101-110	38	24	23
	111-120	25	22	25
	121-130	36	32	22
	131-140	27	15	13
	141-150	24	30	30
	151-160	36	16	18
	161-170	29	18	21
	171-180	43	17	23
	181-190	17	16	16
	191-200	19	21	24
	201-250	95	137	146
	251-300	101	82	80
	301-350	82	68	70
	351-400	60	51	68
	401-450	52	64	66
	451-500	64	42	46

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys. These earlier statistics are not directly comparable with year 2001 and 2002 results, as the annual survey covers aircraft registered at the end of December only.

**Table 33. Frequency distribution of aircraft in General Aviation and Regional Airline operations, by aircraft category and total hours flown, years ended 31 December 1992, 2001 and 2002 - continued**

Category	Total Hours Flown	Number of Aircraft		
		1992	At Dec 2001 (a)	At Dec 2002 (a)
<b>Fixed Wing Multi Engine (cont'd)</b>				
	501-600	95	83	85
	601-700	68	59	51
	701-800	62	43	35
	801-900	50	35	26
	901-1000	28	26	28
	1001-1500	69	94	86
	1501-2000	33	74	44
	Over 2000	29	57	49
	Sub Total	1,773	1,736	1,706
<b>Rotary Wing Amateur Built</b>				
	0		17	25
	1-10		8	9
	11-20		3	7
	21-30		9	6
	31-40		5	2
	41-50	1	4	
	51-60		1	1
	61-70		1	
	81-90			1
	91-100			1
	121-130			1
	131-140		1	
	181-190		1	
	201-250			
	Sub Total	1	50	53
<b>Rotary Wing Single Engine</b>				
	0	84	128	141
	1-10	9	28	27
	11-20	11	14	18
	21-30	8	11	12
	31-40	8	9	10
	41-50	13	6	16
	51-60	6	8	7
	61-70	10	16	11
	71-80	13	8	9
	81-90	5	13	12
	91-100	10	11	14
	101-110	23	15	9
	111-120	7	9	11
	121-130	7	9	5
	131-140	9	5	7
	141-150	5	10	18
	151-160	9	25	9
	161-170	6	10	14
	171-180	10	9	13
	181-190	5	10	6
	191-200	6	16	16

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys. These earlier statistics are not directly comparable with year 2001 and 2002 results, as the annual survey covers aircraft registered at the end of December only.

**Table 33. Frequency distribution of aircraft in General Aviation and Regional Airline operations, by aircraft category and total hours flown, years ended 31 December 1992, 2001 and 2002 - continued**

Category	Total Hours Flown	Number of Aircraft		
		1992	At Dec 2001 (a)	At Dec 2002 (a)
Rotary Wing Single Engine (cont'd)				
	201-250	96	57	45
	251-300	29	84	112
	301-350	25	63	74
	351-400	31	28	34
	401-450	21	33	36
	451-500	17	43	33
	501-600	49	63	70
	601-700	23	35	37
	701-800	18	32	33
	801-900	15	24	14
	901-1000	12	4	10
	1001-1500	10	8	21
	1501-2000	1	1	
	Over 2000			
	Sub Total	611	845	904
Rotary Wing Multi Engine				
	0	1	5	3
	1-10	2	1	
	11-20	2	1	1
	21-30	1		1
	31-40	1		1
	41-50	5	1	
	51-60		1	
	61-70		1	1
	71-80		1	1
	81-90		1	
	91-100			1
	101-110		2	
	111-120			1
	121-130		2	
	141-150		1	2
	151-160		1	
	161-170	2	2	
	171-180		3	
	181-190		2	1
	191-200	3		1
	201-250	7	8	2
	251-300	7	6	1
	301-350	3	4	8
	351-400	7	3	6
	401-450	2	10	3
	451-500	6	3	2
	501-600	12	6	15
	601-700	2	7	11
	701-800	3	2	6
	801-900	2	2	4
	901-1000		3	1
	1001-1500	6	3	6
	1501-2000	1	2	2
	Sub Total	75	84	81

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys. These earlier statistics are not directly comparable with year 2001 and 2002 results, as the annual survey covers aircraft registered at the end of December only.



**Table 33. Frequency distribution of aircraft in General Aviation and Regional Airline operations, by aircraft category and total hours flown, years ended 31 December 1992, 2001 and 2002 - continued**

Category	Total Hours Flown	Number of Aircraft		
		1992	At Dec 2001 (a)	At Dec 2002 (a)
Balloons and airships				
	0	36	103	118
	1-10	29	51	42
	11-20	23	23	25
	21-30	71	21	15
	31-40	10	14	19
	41-50	4	48	42
	51-60	2	18	18
	61-70	10	6	3
	71-80	1	6	8
	81-90	1	8	7
	91-100	2	5	8
	101-110		5	4
	111-120		2	3
	121-130	1	3	3
	131-140	1	3	1
	141-150	1	3	6
	151-160		3	
	161-170			3
	171-180		2	4
	181-190		4	2
	191-200	1	1	
	201-250	2	2	3
	251-300		1	2
	301-350		2	
	351-400	1		
	1001-1500			
	Sub Total	196	334	336
TOTAL		9,277	10,402	10,455

(a) Up to 1999, number of aircraft shown is the unduplicated total of aircraft covered by the two component six-monthly surveys. These earlier statistics are not directly comparable with year 2001 and 2002 results, as the annual survey covers aircraft registered at the end of December only.

## SECTION J. REGULAR PUBLIC TRANSPORT HOURS FLOWN

**Table 34. Hours flown in Regular Public Transport (RPT) operations by industry sector, 1992 to 2002 ('000 hours)**

Year	RPT Operation Type			Regional Airlines	TOTAL
	Major Australian Airlines				
	Domestic operations	International operations			
1992	344.1	182.7		223.4	750.3
1993	361.0	192.5		227.7	781.2
1994	398.3	202.1		238.3	838.7
1995	437.8	218.7		243.1	899.6
1996	454.4	237.9		246.2	938.5
1997	445.6	251.9		272.4	969.8
1998	439.8	245.2		273.2	958.2
1999	442.3	244.0		277.3	963.5
2000	463.1	275.3		335.7	1,074.2
2001	457.7	288.6		298.0	1,044.3
2002	414.3	261.6		250.1	926.0

**Table 35. Hours flown in Regional Airline (RPT) operations by State or Territory (a), 1997 to 2002 ('000 hours)**

State or Territory	1997	1998	1999	2000	2001	2002
NSW	109.6	115.4	115.8	128.6	115.6	122.6
VIC	39.7	34.0	30.1	36.6	31.4	14.5
QLD	63.6	62.9	64.3	84.7	75.9	65.4
SA	21.9	23.1	24.0	31.2	27.9	15.9
WA	18.1	16.1	15.3	20.8	17.2	14.7
TAS	2.7	6.9	9.4	9.2	8.5	1.3
NT	16.7	14.8	18.4	24.6	21.5	15.8
ACT	0.1	0.0	0.0	0.0	0.0	0.0
AUSTRALIA	272.4	273.2	277.3	335.7	298.0	250.1

(a) Refers to location of home base of aircraft.

**Table 36. Hours flown in Regional Airline (RPT) operations by principal aircraft makes, 1997 to 2002 ('000 hours)**

Aircraft Make	1997	1998	1999	2000	2001	2002
<b>Fixed Wing - Single Engine</b>						
Cessna	0.1	0.6	2.0	2.1	..	..
Other	3.6	1.3	0.9	0.3	1.6	3.4
Sub Total	3.7	1.9	2.8	2.4	1.6	3.4
<b>Fixed Wing - Multi Engine</b>						
Beechcraft	28.7	34.3	35.1	33.3	27.1	11.1
British Aerospace	18.6	18.4	17.3	20.4	20.1	15.6
Britten Norman	..	..	..	4.0	1.9	2.4
Canadair	0.0	0.0	..	11.7	19.5	0.0
Cessna	20.1	18.7	15.9	16.8	12.8	11.8
De Havilland	49.7	44.8	45.7	62.6	65.1	83.8
Embraer	28.6	30.5	28.2	38.7	31.8	13.3
Fairchild	26.8	23.1	24.8	23.7	20.5	29.8
Fokker	11.5	14.7	17.3	21.5	19.8	13.9
Piper	24.8	27.3	29.4	33.3	20.2	15.0
Saab	43.5	46.4	48.5	58.0	47.3	44.0
Shorts	13.1	10.6	7.4	7.8	6.7	..
Other	-	2.5	5.0	1.6	3.6	6.1
Sub Total	268.5	271.3	274.4	333.3	296.4	246.7
<b>Rotary Wing - Helicopters</b>						
Sub Total	0.2	0.0	0.0	0.0	0.0	0.0
<b>TOTAL ALL AIRCRAFT</b>	<b>272.4</b>	<b>273.2</b>	<b>277.3</b>	<b>335.7</b>	<b>298.0</b>	<b>250.1</b>

## SECTION F. ULTRALIGHT AIRCRAFT

All statistics courtesy of the Australian Ultralight Federation.

**Table 37. Hours flown (a) in ultralight operations, by State and category of aircraft, 2002**

State or Territory	Uncertified	Type Approved Aircraft							Sub-total	TOTAL
	Uncertified Aircraft CAO 95.10	Commercially-manufactured			Amateur-built		Weight Shift			
		CAO 95.25	CAO 95.55	CAO 101.55	CAO 95.55	CAO 101.28	(Powered Parachutes) CAO 95.32	(Trikes) CAO 95.32		
NSW	1,881	5,212	708	6,142	3,104	1,235	289	201	16,891	18,772
VIC	1,592	2,094	1,545	4,461	2,227	1,294	594	168	12,383	13,975
QLD	2,171	9,986	3,139	8,556	5,974	873	-	444	28,972	31,143
SA	758	1,294	-	3,454	1,891	618	80	-	7,337	8,095
WA	640	756	42	485	904	131	10	745	3,073	3,713
TAS	234	715	-	1,785	432	268	10	50	3,260	3,494
NT	88	240	-	614	29	-	-	41	924	1,012
ACT	22	8	-	170	150	74	-	-	402	424
Unknown	-	-	-	-	-	-	-	-	0	0
<b>AUSTRALIA</b>	<b>7,386</b>	<b>20,305</b>	<b>5,434</b>	<b>25,667</b>	<b>14,711</b>	<b>4,493</b>	<b>983</b>	<b>1,649</b>	<b>73,242</b>	<b>80,628</b>

(a) Covers hours flown during the previous 12 months at time of annual renewal of each aircraft's registration. Training and private flying are the only approved uses of ultralight aircraft.

**Table 38. Hours flown ('000) (a) in ultralight operations, by category of aircraft, 1992 to 2002**

Year	Uncertified	Type Approved Aircraft							Sub-total	TOTAL
	Uncertified Aircraft CAO 95.10	Commercially-manufactured			Amateur-built		Weight Shift			
		CAO 95.25	CAO 95.55	CAO 101.55	CAO 95.55	CAO 101.28	(Powered Parachutes) CAO 95.32	(Trikes) CAO 95.32		
1992	9.7	32.4	-	8.4	-	0.5	0.9	0.4	42.8	52.5
1993	10.5	33.1	-	10.9	..	1.1	0.6	0.5	46.4	56.9
1994	11.2	36.4	-	21.6	..	1.8	1.4	0.5	61.8	73.0
1995	11.4	31.1	-	24.8	..	2.9	1.4	0.4	60.6	72.0
1996	11.3	29.4	-	25.1	..	3.0	1.3	0.4	59.2	70.5
1997	10.3	30.5	-	27.7	..	4.6	1.2	0.9	64.9	75.1
1998	7.4	21.5	-	30.8	-	5.3	1.3	1.0	60.2	67.6
1999	8.5	23.7	0.1	31.5	2.2	5.6	1.3	1.0	65.5	73.9
2000	8.4	20.0	1.5	29.0	7.0	6.1	1.0	1.1	65.6	74.1
2001	8.0	20.2	3.3	26.6	11.0	5.1	1.0	1.2	68.4	76.5
2002	7.4	20.3	5.4	25.7	14.7	4.5	1.0	1.6	73.2	80.6

(a) Covers hours flown during the previous 12 months at time of annual renewal of each aircraft's registration. Training and private flying are the only approved uses of ultralight aircraft.

**Table 39. Number of ultralight aircraft and hours flown by principal aircraft makes, 2002**

Aircraft Make	Number of Aircraft	Hours Flown
Uncertified Aircraft		
Uncertified Aircraft (CAO 95.10)	351	7,386
Type Approved Aircraft		
Commercially-manufactured Aircraft (CAO 95.25)		
Drifter	81	6,794
Light Wing	73	5,433
Sadler	10	68
Sapphire	20	861
Thruster	121	6,910
Other	8	239
Sub Total	313	20,305
Commercially-manufactured Aircraft (CAO 95.55)		
Bantam	12	269
Skyfox	42	4,251
Slepcev	9	719
Other	17	195
Sub Total	80	5,434
Commercially-manufactured Aircraft (CAO 101.55)		
Drifter	33	2,697
Jabiru	99	15,031
Light Wing	11	1,773
Quicksilver	8	269
Skyfox	60	5,797
Other	1	100
Sub Total	212	25,667
Amateur-built Aircraft (CAO 95.55)		
Atec	5	120
Avid	7	201
Boorabee	7	290
Evans	6	191
Fisher	11	189
Foxcon	6	444
Jabiru	90	4,147
Jodel	6	232
Quad City	11	254
RANS	15	1,235
Sapphire	5	95
Slepcev	10	507
Supa Pup	5	191
X-Air	37	1,485
Zenair	27	868
Other	143	4,262
Sub Total	391	14,711
Amateur-built Aircraft (CAO 101.28)		
aVID	5	92
Corby	7	146
Evans	7	64
Jabiru	12	1,014
Kitfox	14	507
Light Wing	9	460
Quicksilver	7	322
RANS	18	593
Other	44	1,295
Sub Total	123	4,493
Weight Shift Aircraft (CAO 95.32)		
Powered Parachutes		
Aerochute	70	830
Powerchute	7	153
Trikes		
Airborne Windsports	44	1,254
Pegasus	11	176
Other	8	219
Sub Total	140	2,632
Type Approved Aircraft Total	1,259	73,242
<b>TOTAL ALL AIRCRAFT</b>	<b>1,610</b>	<b>80,628</b>

## SECTION L. GLIDING ACTIVITY

All statistics courtesy of the Gliding Federation of Australia.

**Table 40. Hours flown and launches in gliding operations, by State, 2002**

State or Territory	Hours Flown			Launches		
	Club	Private	Total	Club	Private	Total
NSW/ACT						
VIC/TAS						
QLD						
SA/NT						
WA						
AUSTRALIA						

Data not available

**Table 41. Number of aircraft, hours flown and launches in gliding operations, 1992 to 2002**

Year	Number of Aircraft	Hours Flown ('000)			Launches ('000)		
		Club	Private	Total	Club	Private	Total
1992	1,150 (b)	57.2	26.1	83.3 (c)	106.7	14.6	121.3 (c)
1993	1,153 (a)	49.8	23.2	73.0 (c)	111.4	13.0	124.4 (c)
1994	1,026 (a)(e)	53.0	27.1	80.1 (c)	98.2	14.5	112.7 (c)
1995	1,025 (a)(e)	48.4	27.5	75.9 (c)	86.2	14.6	100.8 (c)
1996	1,057 (a)(e)	47.6	21.6	69.2 (c)	86.6	11.0	97.5 (c)
1997	1,059 (a)(e)	46.5	22.4	68.9 (c)	78.1	10.9	89.0 (c)
1998	1,056 (a)(e)	45.8	19.6	65.4 (c)	78.4	9.6	88.0 (c)
1999	1,051 (a)(e)	39.0	24.8	63.9 (c)	74.8	14.8	89.6 (c)
2000	1,056 (a)(e)	..	..	..	..	..	..
2001	1,059 (a)(e)	..	..	..	..	..	..
2002	1,083 (a)(e)	..	..	..	..	..	..

(a) At 30 June.

(b) At 18 January 1993.

(c) Year ended 30 April.

(d) Year ended 31 August.

(e) Series now excludes inactive aircraft.

## SECTION M. HANG GLIDING

All statistics courtesy of the Hang Gliding Federation of Australia.

**Table 42. Hours flown ('000) in hang gliding operations, by State and category of aircraft, 2002 (a)**

State or Territory	Hang Gliders	Paragliders	Weightshift Microlights (Powered Hang Gliders)	TOTAL
NSW	19,494	13,934	14,033	47,461
VIC	10,257	12,895	9,505	32,657
QLD	10,664	5,522	4,765	20,951
SA/NT	2,331	1,373	4,383	8,087
WA	3,264	2,029	3,485	8,778
TAS	670	413	332	1,415
ACT	1,367	1,210	261	2,838
AUSTRALIA	48,047	37,376	36,764	122,187

(a) Covers year ended 30 June.

**Table 43. Number of aircraft and hours flown ('000) in hang gliding operations, by category of aircraft, 1992 to 2002 (a)**

	Hang Gliders		Paragliders		Microlights (Powered Hang Gliders)		TOTAL	
	No. of Aircraft	Hours Flown	No. of Aircraft	Hours Flown	No. of Aircraft	Hours Flown	No. of Aircraft	Hours Flown
1992	..	58.5	..	5.4	..	9.5	..	73.5
1993	2,160	64.7	390	7.7	104	13.9	2,654	86.2
1994	2,020	50.2	565	9.3	255	18.0	2,840	77.6
1995	2,045	49.2	657	12.3	320	24.9	3,022	86.4
1996	2,110	56.5	720	18.3	259	28.4	3,089	103.2
1997	2,100	57.3	890	17.3	270	27.7	3,260	102.3
1998	1,850	50.9	980	15.1	353	21.4	3,183	87.5
1999	1,845	50.4	1,042	24.2	376	30.0	3,263	104.6
2000	1,887	50.9	1,067	24.8	392	31.0	3,346	106.7
2001	1,864	53.4	1,121	32.2	397	34.4	3,382	120.0
2002	1,540	48.0	1,334	37.4	467	36.8	3,341	122.2

(a) Covers years ended 30 June.

## SECTION N. GYROPLANES

All statistics courtesy of the Australian Sport Rotorcraft Association.

**Table 44. Number of aircraft and hours flown in gyroplane operations, 1992 to 2002**

Year	Number of Aircraft (a)	Hours Flown					TOTAL	
		Private	Dual Training	Gyro Glider Training	Mustering	Search & Rescue		
1992	..	..	..	..	..	..	..	
1993	(b)	199	4,046	324	70	1,088	36	5,564
1994	(c)	226	11,112	3,619	317	..	-	15,048
1995	(c)	269 (d)	13,200	945	125	..	85	14,355
1996	(c)	385	20,577	2,377	271	..	82	23,307
1997	(c)	394	20,244	2,059	1,007	..	9	23,319
1998	(c)	394	31,192	1,895	354	..	..	33,441
1999	(c)	432	25,172	5,069	193	..	..	30,434
2000	(c)	487	26,766	2,858	105	..	..	29,729
2001	(c)	..	32,961	3,863	122	..	4	36,950
2002	(c)	..	30,043	2,152	117	..	13	32,325

(a) At 30 June.

(b) Statistics cover period January to June 1993 only, with 33% member response.

(c) Covers year ended 30 June.

(d) As at 13 December 1995



## EXPLANATORY NOTES

### INTRODUCTION

The annual *General Aviation* statistical publication provides data on the size of the aviation industry sectors in Australia, with the major focus being on General Aviation operations. General Aviation, for the purposes of this publication, is defined as all non-scheduled flying activity in aircraft allocated a VH- registration by the Civil Aviation Safety Authority, except for that performed by the major airlines, but including non-scheduled flying by the regional airlines.

2. The other sectors of the industry for which data is included in this publication are:
  - (a) regional airlines, which operate regular public transport services using low capacity aircraft (currently defined as aircraft with 38 seats or less, or with a payload of 4,200 kgs or less);
  - (b) the major Australian airlines, which operate regular public transport services using high capacity aircraft;
  - (c) sailplanes (powered and unpowered) registered with the Gliding Federation of Australia;
  - (d) ultralight aircraft registered with the Australian Ultralight Federation;
  - (e) hang gliders registered with the Hang Gliding Federation of Australia; and
  - (f) gyroplanes registered with the Australian Sport Rotorcraft Association.
3. The statistics exclude any other unregistered or foreign-registered aircraft operating in Australia.

### DATA SOURCES

4. The data presented in this publication for hours flown and landings in the General Aviation and Regional Airline sectors have been compiled from statistical returns collected under the authority of Air Navigation Regulation 12.
5. A survey covering the calendar year was dispatched to all aircraft owners listed on the Australian Aircraft Register other than for those aircraft operated by the major airlines.
6. Survey returns are generally received for approximately 70 per cent of aircraft on the register. Estimates are made for aircraft for which returns had not been received at the time of publication. Because of the inclusion of estimates, and consequent reduction of accuracy, figures are rounded to the nearest hundred. Statistics by individual aircraft types are shown only when five or more aircraft of the type contribute to the data.
7. All other data items for these aircraft have been extracted from the Civil Aviation Safety Authority's Aircraft Register Information System.
8. Statistics covering gliders, ultralight aircraft, hang gliders and gyroplanes have been supplied courtesy of the Gliding Federation of Australia, the Australian Ultralight Federation, the Hang Gliding Federation of Australia and the Australian Sport Rotorcraft Association, respectively.
9. Statistics relating to the major (domestic and international) airlines were compiled from returns supplied by the airlines on a regular basis.

### PRODUCTION AND INTERPRETATION

10. In Tables 10 and 11, landings includes touch-and-go landings.
11. Where figures have been rounded, discrepancies may occur between sums of component items and totals.

## DEFINITIONS

12. The following terms have been used in this publication -
- (a) **Aerial Work:** Includes all aerial survey and photography, spotting, aerial stock mustering, search and rescue, ambulance, towing (including glider, target and banner towing) and other aerial work (including advertising, cloud seeding, fire fighting, parachute dropping, and coastal surveillance).
  - (b) **Agriculture:** Operations involving the carriage and/or spreading of chemicals, seed, fertiliser or other substances for agricultural purposes, including operations for the purpose of pest and disease control.
  - (c) **Business:** Flying by the aircraft owner, his employees or the hirer of the aircraft for business or professional reasons, but not directly for hire or reward.
  - (d) **Charter:** Carriage of cargo or passengers on non-scheduled operations by the aircraft owner or his employees for hire or reward.
  - (e) **General Aviation Operations:** All non-scheduled (non RPT) flying activities other than flying activities performed by major airlines.
  - (f) **Hours Flown:** Flying time performed, measured on a wheels start to wheels stop basis.
  - (g) **Major Australian Airlines:** Scheduled (RPT) services operated by Australian-registered airlines whose fleets include high capacity aircraft. Includes operations on international services.
  - (h) **Movement:** A landing or a take-off.
  - (i) **Non-RPT Airline Operations:** All operations by aircraft of the major Australian airlines, other than in scheduled RPT services.
  - (j) **Private:** Flying for private pleasure, sport or recreation.
  - (k) **Regional Airline:** Scheduled (RPT) services performed within Australia by operators whose fleets consist of low capacity aircraft only (38 seats or less, or with a payload of up to 4,200 kgs).
  - (l) **Regular Public Transport (RPT):** Scheduled airline services available to the public for carriage of passengers or cargo, including domestic, regional and international airline operations.
  - (m) **Test and Ferry:** Flying associated with the testing of an aircraft or with its delivery or movement to another location for maintenance, hire or other planned use.
  - (n) **Training:** Flying under instruction for the issue or renewal of a licence or rating or for conversion training or aircraft or type endorsement. This includes solo navigation exercises conducted as part of courses of applied flying training.

## SYMBOLS AND OTHER USAGES

- p Preliminary - figure or series subject to revision.
- r Revised since last issue.
- Greater than zero but less than 50.
- .. Not available for confidentiality or other reasons.

**AIR TRANSPORT STATISTICS** publications produced:

**Airport Traffic Data**

Produced: Financial years.  
Last issue: 1991-92 to 2001-02.  
Contents: Time series of airport activity for the international, domestic and regional RPT sectors.

**Digest of Statistics**

Produced: Calendar and financial years.  
Last issue: 2000-01.  
Contents: Summary and time series statistics of the Australian aviation industry.

**Domestic Airlines Monthly Activity Report**

Produced: Monthly.  
Last issue: June 2003.  
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Contents: International air traffic; operator data; city pair data; industry analysis.

**International Airlines: Monthly**

Produced: Monthly.  
Last issue: May 2003.  
Contents: International air traffic; operator data; city pair data; industry analysis.

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