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Bureau of Infrastructure, Transport and Regional Economics

STATISTICAL REPORT



Australian Aircraft Activity 2018

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Explanatory Notes

Australian aviation statistics publications

In order to provide a complete, integrated statistical summary of all Australian aviation, BITRE conducts a range of surveys covering the full spectrum of flying activity.

Monthly surveys of airlines are conducted to compile estimates of:

- Passengers carried to, from and within Australia by Australian and foreign-registered airlines.
- Cargo carried to, from and within Australia by Australian and foreign-registered airlines.
- Changes to airfares charged on competitive Australian domestic routes.
- The on time performance of domestic airlines.
- Aircraft movements and flying activity by airlines.

Originally, the scope of these monthly airline surveys was limited to scheduled regular public transport (RPT) flights, but in 2011 the scope was expanded to include large charter flights that are similar in scale to RPT flights. The monthly surveys of charter activity compile estimates of:

- Passengers carried within Australia on charter flights.
- Cargo carried within Australia on charter flights.
- Aircraft movements and flying activity by charter operators.

To provide a complete statistical summary of Australian aviation, BITRE compiles an annual survey of Australian registered aircraft undertaking Commercial Air Transport and General Aviation activity. The annual “General Aviation Survey” compiles estimates of:

- Aircraft movements and flying activity by Australian-registered aircraft.

The results of these surveys are published in activity-specific reports:

- The monthly International Airline Activity report provides a summary of international passenger and cargo air travel to and from Australia. The report also provides an estimate of the movement of passengers between Australian airports by foreign-registered airlines. Statistics published in this report are compiled from the results of monthly surveys of international airlines that operate to/from Australia.
- The monthly Domestic Aviation Activity report provides a summary of domestic passenger and cargo air travel within Australia. This publication also provides statistics on the movement of passengers through regional airports and summary statistics for the movement of passengers on large charter flights. Statistics published in this report are compiled from the results of monthly surveys of domestic airlines and aviation charter companies that operate in Australia.
- The monthly Domestic On Time Performance report provides measures of the on time performance of key domestic airlines on competitive routes. Statistics published in this

reports are compiled from the results of monthly surveys of key domestic airlines operating in Australia.

- The monthly Domestic Air Fare Indexes release is a web-based report providing an index-based measure of changes in airfares on competitive routes over time. Statistics published in this report are compiled from information published on domestic airlines' websites for specific routes identified as competitive in the Domestic Aviation Activity report.
- The annual Australian Aircraft Activity report provides statistics on the flying activity of all Australian-registered aircraft. Key measures are the number of hours flown and the number of landings, classified by the type of flying activity being undertaken. Statistics published in this report are compiled from the results of the annual General Aviation Activity Survey.

Data sources

Survey questionnaires were despatched to owners or operators of all aircraft listed on the Australian Civil Aircraft Register. Responses were received for 85.7 per cent of aircraft in scope of the Survey. For aircraft where a response was not received, careful estimates were substituted, based on the average of responses by similar aircraft.

Not all aircraft in Australia are listed on the Australian Civil Aircraft Register. Owners of ultralight aircraft, gliders, weight shift aircraft and gyrocopters may instead be registered with their respective associations. Statistics for these aircraft types have been supplied courtesy of Recreational Aviation Australia, the Gliding Federation of Australia, the Hang Gliding Federation of Australia and the Australian Sport Rotorcraft Association.

BITRE statistical surveys are conducted under the authority of Air Navigation Regulation 2016 Part 2. BITRE wishes to thank aircraft owners and operators for their assistance with these statistical collections.

Please note

Landings include touch-and-go landings and alighting on water.

Location statistics provided in this report refer to the location where the aircraft is most frequently based. For some operations, this may be a significant distance away from where aircraft activity may occur.

Aircraft make is generally the manufacturer. However in cases where there have been changes to the company's name, structure or ownership with little change to the line of aircraft produced, common names (or the most recent name) may be used or retained.

Where figures have been rounded, differences may occur between the sums of component items and totals.

Symbols and other usages

- na Not applicable.
- r Revised.
- Greater than zero but less than 50.
- .. Not available for confidentiality or other reasons.

Abbreviations

- ASRA Australian Sport Rotorcraft Association
- BITRE Bureau of Infrastructure, Transport and Regional Economics
- CASA Civil Aviation Safety Authority
- C of A Certificate of Airworthiness
- GA General Aviation
- GFA Gliding Federation of Australia
- HGFA Hang Gliding Federation of Australia
- RA-Aus Recreational Aviation Australia
- RPT Regular Public Transport

Highlights

The Australian Aircraft Fleet

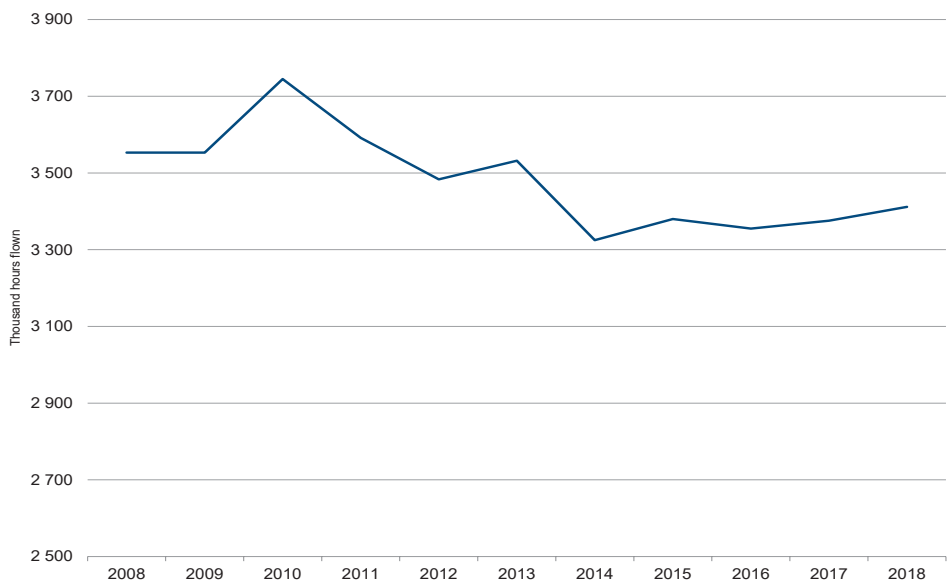
Total hours flown by Australian aircraft was 3.41 million in 2018, an increase of 1.2 per cent compared with the previous year (see Table 1).

Total airline RPT flying hours fell 0.2 per cent in 2018 to 1.42 million hours (see Table 1). Other VH-Registered aircraft flying hours rose 2.6 per cent in 2018 to 1.64 million hours (see Table 1).

The Sports and Recreation Associations registered sector recorded 348 thousand flying hours in 2018, a increase of 0.6 per cent compared to 2017 (see Table 1).

Figure 1 shows the flying hours performed by Australian Aircraft.

Figure 1 Australian Aircraft Fleet hours flown, (2008–2018)



The General Aviation and Commercial Air Transport VH-registered fleet

The total number of hours flown by General Aviation and Commercial Air Transport VH-registered aircraft for the year ending 31 December 2018 was 3.07 million. This consisted of 1.84 million hours in Commercial Air Transport and 1.23 million hours in General Aviation (see Table 7).

Commercial Air Transport consists of two sectors, Scheduled and Non-Scheduled. Scheduled Commercial Air Transport recorded 1.42 million hours, while Non-Scheduled recorded 415 thousand hours. Within Scheduled, the largest activity was Domestic, with 952 thousand hours. While in Non-Scheduled, Passenger transport charters was the largest activity with 272 thousand hours (see Table 7).

General Aviation consists of five different sectors of flying. Aerial Work (439 thousand hours), Own Use Business (134 thousand hours), Instructional flying (390 thousand hours), Sport and pleasure flying (235 thousand hours), and Other flying (29 thousand hours). The largest flying activity in Aerial Work was Agricultural mustering, recording 137 thousand hours. Commercial Instructional flying activity made up the majority of the Instructional flying sector, recording 359 thousand hours. While within the Sport and pleasure flying sector the largest flying activity was Pleasure and personal transport, recording 128 thousand hours (see Table 7).

Figure 2 shows the flying hours performed by VH-registered aircraft by the major industry sectors

Figure 2 VH-Registered fleet hours flown, by major industry sectors (2018)

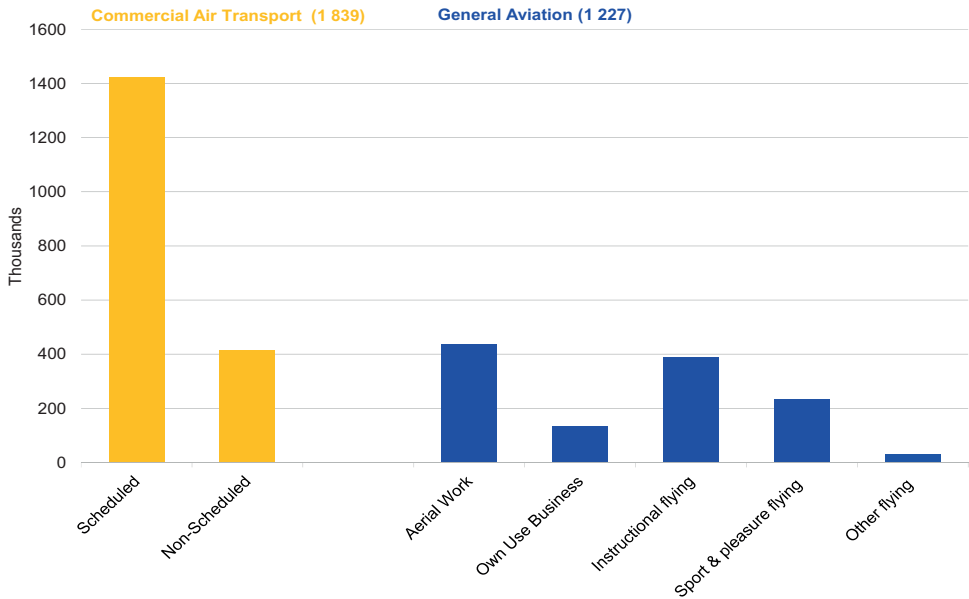
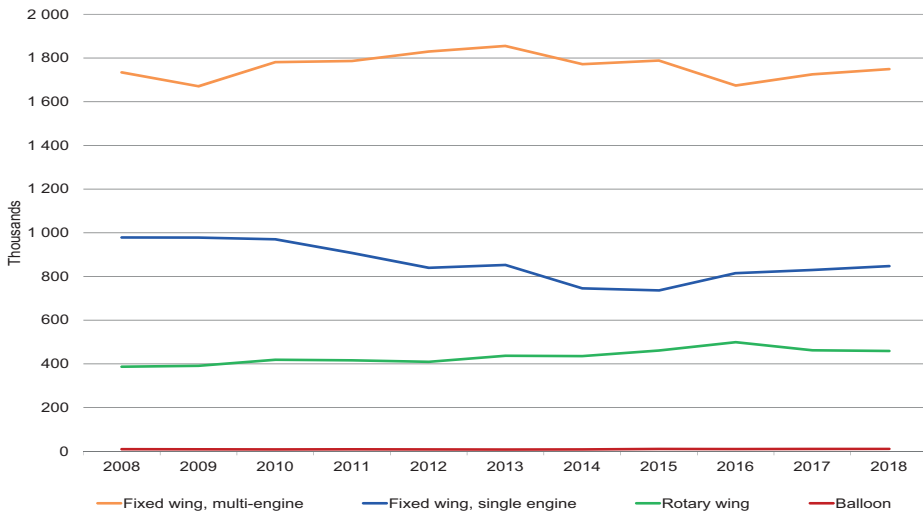


Figure 3 shows the flying hours performed by VH-registered aircraft by the major categories of aircraft.

Figure 3 VH-Registered fleet hours flown, by category of aircraft (2008–2018)



The total number of landings by General Aviation and Commercial Air Transport VH-registered aircraft for the year ending 31 December 2018 was 3.00 million. This consisted of 1.27 million landings in Commercial Air Transport and 1.72 million landings in General Aviation (see Table 7).

The general aviation and commercial air transport VH registered fleets include 13 753 aircraft on the Civil Aviation Aircraft Register (Table 3). The number of aircraft registered at 31 December 2018 represents an increase of 0.6 per cent over the number registered at 31 December 2017 (13 666 aircraft).

The number of fixed wing, single engine aircraft decreased marginally to 8 884, or 64.6 per cent of all registered aircraft in the General Aviation and Commercial Air Transport VH-registered fleet (see Table 4).

Fixed wing, multi-engine aircraft increased by 0.3 per cent to 2 269 (16.5 per cent of the total) (see Table 4).

The number of helicopters increased by 3.3 per cent to 2 190 (15.9 per cent of the total), with the number of single engine helicopters increasing by 3.6 per cent to 1 918. The number of multi-engine helicopters increased by 1.5 per cent to 272 (see Table 4).

Hot-air balloons and airships increased by 3.3 per cent to 410, or 3.0 per cent of total aircraft (see Table 4).

The Australian General Aviation and Commercial Air Transport VH-registered fleet contains many older aircraft, with the average age being 35.4 years for fixed wing aircraft, compared to 19.1 years for rotary aircraft and 13.9 years for balloons and airships (see Table 4).

About one in every four (3 457 aircraft) General Aviation and Commercial Air Transport VH-registered aircraft reported performing no flying during the year ended 31 December 2018.

Reasons were provided for 3 388 of these aircraft for why they did not fly in 2018. These reasons are summarised in the following table:

Table A Reasons for nil flying activity (2018)

Reason for nil activity	Number of aircraft	Percentage of reporting inactive aircraft
Repair / maintenance / restoration	1608	47.5
Aircraft in storage	427	12.6
Aircraft unserviceable / unairworthy	259	7.6
Sold prior to 1 January 2018	155	4.6
Lack of business / company ceased operating	126	3.7
Aircraft awaiting sale	122	3.6
Amateur-built aircraft not yet completed	111	3.3
Work or other commitments	96	2.8
Owner's health issues / deceased	87	2.6
Financial reasons	64	1.9
C of A not yet issued	40	1.2
Drought	38	1.1
New Aircraft	30	0.9
Awaiting parts or modifications	24	0.7
Other	201	5.9
Total	3388	100

Note: This table covers aircraft with zero hours reported and not those with reduced hours for any of the above reasons (for example, drought).

The Sport and Recreational registered fleet

The sport and recreational registered aircraft fleet in 2018 consisted of 8 361 aircraft, which flew a total of 348 thousand hours (see Table 5).

Ultralight flying

Information provided by Recreational Aviation Australia (RA-Aus). BITRE recommends caution when using these statistics as RA-Aus data are subject to frequent revision.

In 2018, ultralight aircraft flew a total of 126 thousand hours, representing a decrease of 12.2 per cent over 2017 (see Table 12).

At the end of December 2018, a total of 2 997 aircraft had current registrations issued by Recreational Aviation Australia, a decrease of 2.3 per cent over 2017 (3 066 aircraft) (see Table 5).

Gliding

Information provided by the Gliding Federation of Australia (GFA)

The number of registered gliders in 2018 was 1 276, an increase of 0.2 per cent compared with December 2017. The total number of reported flying hours increased by 5.7 per cent to 61 thousand hours in the calendar year 2018 compared with 2017 (see Table 1).

Hang gliding

Information provided by the Hang Gliding Federation of Australia (HGFA)

The total number of hours flown by hang gliders in 2017–18 increased by 13.8 per cent on the previous year to 118 thousand hours (see Table 1).

Gyroplanes

Information provided by the Australian Sport Rotorcraft Association (ASRA)

The number of gyroplanes in 2018 was 329. The total number of estimated hours flown by gyroplanes in 2018 increased by 5.0 per cent to 42 thousand hours, compared with 2017 (see Table 1).

Tables

Table 1 Total hours flown by industry sector (1989–2018)

Year	Total scheduled ^a	Other VH- registered aircraft ^b	Ultralight flying	Gliding ^c	Hang Gliding ^d	Gyroplanes ^e	Total
(thousand hours)							
1989	554.9	1927.6	..	75.4	2557.9
1990	613.1	1930.8	..	72.6	2616.4
1991	692.8	1754.7	..	74.2	63.7	..	2585.4
1992	750.3	1651.0	52.4	83.3	73.5	..	2610.4
1993	781.2	1703.9	56.8	73.0	86.2	..	2701.1
1994	838.7	1715.7	73.0	80.1	77.6	15.0	2800.1
1995	899.6	1761.3	72.0	75.9	86.4	14.4	2909.6
1996	938.5	1799.0	70.4	69.2	103.2	23.3	3003.7
1997	969.8	1839.3	75.1	68.9	102.3	23.3	3078.7
1998	958.2	1877.9	67.6	65.4	87.5	33.4	3090.0
1999	963.5	1842.2	73.9	63.9	104.6	30.4	3078.5
2000	1074.2	1714.8	74.1	..	106.7	29.7	2999.5
2001	1044.3	1702.9	76.5	..	120.0	37.0	2980.6
2002	926.0	1687.7	80.6	..	122.2	32.3	2848.9
2003	969.0	1645.9	84.5	..	124.7	28.3	2852.5
2004	1090.4	1645.0	87.1	..	132.0	29.3	2983.7
2005	1144.1	1722.8	92.9	194.7	134.2	32.9	3321.6
2006	1156.7	1695.0	120.2	228.9	103.0	27.9	3331.6
2007	1191.6	1831.8	138.3	343.4	94.5	28.0	3627.6
2008	1250.5	1857.7	156.2	169.9	88.3	30.5	3553.1
2009	1241.4	1807.5	174.3	198.4	96.0	35.6	3553.2
2010	1325.7	1847.7	200.4	228.7	97.9	44.4	3744.9
2011	1347.4	1771.4	198.6	126.9	98.7	48.6	3591.5
2012	1382.1	1704.9	187.9	56.8	105.1	46.8	3483.6
2013	1410.7	1741.8	153.5	63.6	117.2	44.9	3531.8
2014	1402.1	1526.4	176.1	67.7	113.8	38.9	3324.9
2015	1440.0	1552.3	167.0	66.3	110.9	43.5	3379.9
2016	1389.4	1608.8	148.2	65.0	107.7	37.0	3356.1
2017	1427.1	1600.4	144.0	58.0	103.5	40.0	3373.0
2018	1423.9	1642.3	126.4	61.3	117.8	42.0	3413.7

a Hours flown by Australian (including regional) airlines on domestic and international flight stages in Scheduled operations. From August 2004 RPT freight operations are included.

b Includes hours flown in General Aviation as well as Non-Scheduled Commercial Air Transport (Charter)

c Year ended 30 April prior to 2000. No data are available between 2000 and 2004. Data from 2005–2010 are for year ended 30 June. Data from 2011 are for calendar year.

d Year ended 30 June.

e Year ended 30 June until 2005. From 2006 onwards, calendar year data are provided.

Table 2 Hours flown and percentage change, by industry sector and flying activity (2016–2018)

Flying Activity	2016 ^a		2017 ^a		2018 ^a	
	Hours flown (thousands)	Percentage change over 2015	Hours flown (thousands)	Percentage change over 2016	Hours flown (thousands)	Percentage change over 2017
Scheduled	1389.4	-3.5%	1427.1	2.7%	1423.9	-0.2%
Non-Scheduled ^b	318.9	-10.3%	342.3	7.3%	370.9	8.4%
Private	161.3	-2.9%	161.7	0.2%	168.3	4.1%
Business	131.7	-4.7%	136.6	3.7%	133.9	-2.0%
Test & ferry	34.8	31.1%	30.5	-12.1%	29.0	-4.9%
Training	339.6	11.3%	359.0	5.7%	390.1	8.7%
Agriculture	110.7	39.5%	104.7	-5.4%	94.3	-9.9%
Survey & photography	34.9	4.8%	36.1	3.4%	43.3	20.2%
Pipe & powerline patrol	50.4	-2.1%	44.1	-12.6%	37.0	-16.1%
Mustering	184.7	19.8%	137.6	-25.5%	137.1	-0.3%
Search & rescue	9.1	-7.1%	7.5	-17.4%	13.0	72.9%
Ambulance	102.0	-2.9%	105.6	3.6%	106.6	0.9%
Towing	4.8	-30.5%	4.8	-1.0%	4.4	-8.3%
Other aerial work	126.0	4.4%	129.9	3.1%	114.3	-12.0%
Total Hours Flown	2998.2	0.2%	3027.5	1.0%	3066.1	1.3%

Note: Includes data from General Aviation Activity survey.

^a Activity Classifications based on 2013 categories

^b Excludes Air Ambulance which was reclassified from General Aviation to Commercial air transport in 2014.

Table 3 Number of aircraft, landings and hours flown in General Aviation and Commercial Air Transport operations by state or territory (2018)^a

State or Territory	Number of aircraft		Number of landings (thousands)	Commercial Air Transport		General Aviation		Total
	Total	Active ^b		No. Active aircraft ^b	Hours flown (thousands)	No. Active aircraft ^b	Hours flown (thousands)	
Intrastate								
NSW	3759	2717	669.5	335	186.4	2639	308.8	495.3
QLD	3190	2435	588.6	408	162.3	2294	334.6	497.0
VIC	2761	1952	407.8	214	60.6	1888	222.9	283.6
WA	1861	1434	393.3	431	204.6	1164	169.1	373.7
SA	871	679	253.1	90	43.5	648	97.4	140.9
NT	676	523	197.7	260	105.1	426	74.3	179.4
TAS	204	153	52.8	28	10.0	137	15.4	25.4
ACT	103	75	13.5	13	9.0	63	4.5	13.5
Interstate	192	192	343.1	192	623.2			623.2
International	136	136	78.2	136	434.3			434.3
Australia	13753	10296	2997.5	2107	1839.0	9259	1227.2	3066.1

Note: Includes data from General Aviation Activity survey.

^a VH-registered aircraft only

^b General Aviation and Commercial Air Transport active aircraft may not sum to total active aircraft as some aircraft may operate in both categories

Table 4 Australian Aircraft Fleet, VH-registered (2018)

Aircraft make	Number of Aircraft	Average age of aircraft ^a (years)	Hours flown (thousands)	Landings
Fixed wing, single-engine				
Cessna	3118	40.1	387.6	549.8
Piper	1400	44.0	115.7	184.4
Amateur-built	1374	15.8	38.2	50.1
Beechcraft	354	42.3	15.0	13.6
De Havilland	305	74.1	5.9	13.2
Air Tractor	181	16.4	36.3	83.5
Cirrus	176	9.1	17.1	14.5
Mooney	147	38.4	8.0	6.2
Auster	127	67.6	1.0	1.3
American Champion	100	29.5	8.6	10.4
Other	1602	36.0	214.0	360.8
Subtotal	8884	36.6	847.5	1287.6
Fixed wing, multi-engine				
Piper	420	40.1	55.8	57.3
Beechcraft	403	33.3	93.8	87.8
Cessna	382	37.1	57.9	54.6
Boeing	227	10.6	678.0	283.5
Airbus	124	9.7	451.2	166.5
Bombardier	85	12.4	100.3	94.2
Fokker	80	25.9	91.5	56.4
Saab	63	24.4	69.6	75.7
Aero Commander	55	46.6	15.5	12.7
Fairchild	47	30.0	20.2	20.5
Other	383	32.3	115.5	105.9
Subtotal	2269	30.4	1749.2	1015.0
Total	11153	35.4	2596.7	2302.6
Rotary wing, single-engine				
Robinson	1127	12.8	257.8	308.2
Bell	320	36.8	50.5	93.0
Aerospatiale/Eurocopter	189	21.1	42.2	92.2
Amateur-built	97	13.5	1.5	2.2
Schweizer	38	18.3	5.1	8.6
Agusta	26	40.8	2.1	2.7
Hughes	22	42.6	2.0	6.0
Airbus	16	2.9	6.4	11.1
Enstrom	14	32.8	0.8	1.2
Kawasaki	13	49.6	0.2	0.3

Aircraft make	Number of Aircraft	Average age of aircraft ^a (years)	Hours flown (thousands)	Landings
Other	56	34.3	8.8	11.2
Subtotal	1918	19.4	377.4	536.7
Rotary wing, multi-engine				
Agusta	73	6.5	31.6	70.3
Bell	53	23.8	10.7	18.3
Aerospatiale/Eurocopter	44	24.3	7.3	9.7
Sikorsky	35	14.9	15.2	12.8
Kawasaki	20	27.1	4.5	7.6
Other	47	14.9	12.1	28.4
Subtotal	272	16.8	81.5	147.1
Total	2190	19.1	458.8	683.8
Balloon or airship make				
Kavanagh	273	11.2	8.7	9.1
Cameron	59	18.6	0.9	0.9
Thunder/Colt	30	29.6	0.2	0.2
Amateur-built	20	7.2	0.3	0.3
Balloon Works	8	32.6	-	-
Other	20	12.8	0.4	0.5
Total	410	13.9	10.6	11.2

Note: Includes data from General Aviation Activity survey.

^a As at end of 2018

Table 5 Australian Aircraft Fleet, Sports and Recreational registered aircraft (2018)

Aircraft	Number of aircraft	Hours flown (thousands)
Ultralight	2997	126.4
Gliders	1276	61.3
Hang gliders	3759	117.8
Gyroplanes	329	42.0
Total	8361	347.5

Note: Includes data from Sport and Recreational Associations

Table 6 Number of Aircraft, by Fuel Type and Hours Flown in Australian Fleet (2018)

Fuel type	Number of aircraft	Total hours flown (thousands)
Fixed wing, single engine		
Diesel	7	3.0
Avtur	515	163.0
Avgas	8362	681.6
Subtotal	8884	847.5
Fixed wing, multi-engine		
Diesel	6	1.1
Avtur	1102	1595.2
Avgas	1161	152.8
Subtotal	2269	1749.2
Subtotal (Fixed wing)	11153	2596.7
Rotary wing, single engine		
Avtur	594	109.4
Avgas	1324	267.9
Subtotal	1918	377.4
Rotary wing, multi-engine		
Avtur	272	81.5
Subtotal	272	81.5
Subtotal (Rotary wing)	2190	458.8
Balloons and airships		
N/A	410	10.6
Total	13753	3066.1

Note: Includes data from General Aviation Activity survey

Table 7 Flying Activity by VH-registered aircraft (2018)

Industry sector and flying activity		Number of Aircraft	Average age of Aircraft ^a (years)	Hours flown (thousands)	Landings
Commercial air transport					
Scheduled	International	189	8.4	439.4	80.1
	Domestic	616	16.4	952.2	646.6
	Freight only	113	34.1	32.3	26.1
Non-scheduled	Passenger transport charters	1505	25.9	272.0	354.1
	Air ambulance	151	13.8	106.6	107.6
	Freight only	16	32.1	11.1	7.1
	Other commercial air transport	108	23.8	25.3	51.8
Total Commercial air transport		2107^b	23.8	1839.0	1273.5
General Aviation					
Aerial work	Agricultural spreading/spraying	526	22.1	72.9	193.4
	Agricultural mustering	565	17.5	137.1	104.0
	Agriculture - other	356	21.8	21.4	22.1
	Construction - sling loads	38	21.9	2.5	3.1
	Construction - other	8	22.0	0.9	1.4
	Photography	302	21.0	13.3	7.1
	Pipeline or powerline surveying	307	20.3	15.6	13.3
	Other surveying	350	21.2	30.1	18.2
	Observation and Patrol	153	20.1	21.4	9.0
	Search and rescue	92	19.6	13.0	20.7
	Policing	47	17.9	21.8	20.2
	Firefighting	441	20.9	31.3	35.1
	Advertising	11	29.5	0.3	0.2
	Other aerial work	637	23.9	57.8	78.9
Own Use Business	Own business travel	1993	30.0	133.9	125.5
Instructional flying	Instructional flying - commercial	1177	24.8	358.9	612.6
	Instructional flying - non-commercial	706	29.6	31.2	56.9
Sport and pleasure flying	Glider towing	45	49.3	4.0	28.2
	Parachute dropping	560	44.0	20.7	53.0
	Aerobatics	152	33.3	3.7	7.3
	Joyflights/sightseeing charters	520	22.0	62.4	113.9
	Pleasure and personal transport	3562	35.5	127.9	147.7
	Community service flights	52	32.8	1.7	1.6
	Other sport and pleasure flying	571	30.1	14.3	19.5
Other flying	Test flights	428	25.6	1.9	2.9
	Ferry flights	773	24.7	11.1	10.3
	Other flights	396	28.7	16.1	17.7
Total General Aviation		9259^c	30.5	1227.2	1724.1
Total		10296^d	29.7	3066.1	2997.5

^a As at end of 2018^b The sum of all Commercial Air Transport category's aircraft will exceed Total Commercial Air Transport aircraft as some aircraft operate in multiple categories.^c The sum of all General Aviation category's aircraft will exceed Total General Aviation aircraft as some aircraft operate in multiple categories.^d The sum of Total General Aviation and Total Commercial Air Transport aircraft will exceed Total aircraft as some aircraft operate in both industry sectors.

Table 8 Table 8 Hours flown by broad activity type, by state or territory (2018), for VH-registered aircraft

State or Territory	Commercial Air Transport		General Aviation					Total
	Scheduled	Non-scheduled	Aerial Work	Own Use Business	Instructional flying	Sport and pleasure	Other flying	
(thousands)								
Intrastate								
NSW	138.1	48.4	90.2	35.4	113.1	64.4	5.8	495.3
QLD	69.2	93.1	155.3	44.0	64.9	63.8	6.6	497.0
VIC	27.6	33.0	37.3	17.9	112.4	47.5	7.9	283.6
WA	74.9	129.6	77.6	14.8	41.3	32.1	3.3	373.7
NT	27.3	77.8	50.1	11.5	3.0	6.3	3.5	179.4
SA	16.4	27.1	21.8	8.6	50.4	15.1	1.5	140.9
TAS	5.4	4.6	6.6	1.3	4.2	2.9	0.3	25.4
ACT	7.5	1.5	0.6	0.2	0.9	2.7	0.1	13.5
Interstate	623.2							623.2
International	434.3							434.3
Australia	1423.9	415.1	439.4	133.9	390.1	234.8	29.0	3066.1

Note: Includes data from General Aviation Activity survey. Activity by major airlines are classified to either Interstate or International.

Table 9 Landings by broad activity type, by state or territory (2018), for VH-registered aircraft

State or Territory	Commercial Air Transport		General Aviation				Total
	Scheduled	Non-scheduled	Aerial Work	Own Use Business	Instructional flying	Sport and pleasure	
Intrastate							
NSW	144.6	57.8	147.2	33.8	172.4	107.8	669.5
QLD	56.2	148.8	147.0	42.3	89.9	96.4	588.6
VIC	27.0	47.9	54.4	16.2	180.8	74.5	407.8
WA	43.4	144.6	70.7	12.4	65.6	52.7	393.3
SA	16.0	26.4	32.4	8.1	145.1	23.4	253.1
NT	30.6	86.8	51.0	11.1	5.4	9.0	197.7
TAS	7.2	7.6	23.9	1.4	7.8	4.4	52.8
ACT	6.4	0.8	0.4	0.2	2.5	3.1	13.5
Interstate	343.1						343.1
International	78.2						78.2
Australia	752.8	520.6	526.9	125.5	669.5	371.2	2997.5

Note: Includes data from General Aviation Activity survey. Activity by major airlines are classified to either Interstate or International

Table 10 Hours flown and landings by engine type (2018), for VH-registered aircraft

Certified aircraft									
Jet aircraft		Turbo-prop aircraft			Turbo-shaft aircraft			Piston engine aircraft	
Hours flown	Landings	Hours flown	Landings	(thousands)	Hours flown	Landings	Hours flown	Hours flown	Landings
Commercial Air Transport	Scheduled	1187.5	492.2	213.5	235.5	0.7	0.4	22.2	24.8
	Non-scheduled	62.4	37.5	145.6	142.3	65.5	158.9	140.7	180.8
General Aviation	Aerial Work	4.8	2.5	88.3	140.6	92.3	137.2	254.0	246.6
	Own Use Business	10.1	5.6	10.4	10.3	8.9	13.6	104.5	96.0
	Instructional flying	7.0	1.9	5.5	5.4	5.9	12.0	371.6	650.1
	Sport & pleasure	0.7	1.5	17.4	43.6	14.2	31.7	192.9	284.7
	Other flying	2.6	1.3	2.4	1.9	3.4	4.8	20.5	22.9
Total		1275.1	542.4	483.1	579.5	190.9	358.6	1106.4	1505.9

Note: Includes data from General Aviation Activity survey

Table 11 Hours flown an in Ultralight operations, by state and category of aircraft (2018)

State or Territory	Uncertified aircraft	Certified aircraft								Subtotal (Certified aircraft)	Total
		Commercially manufactured			Amateur-built		Weight shift				
		CAO 95.25	CAO 95.55	CAO 101.55	CAO 95.55	CAO 101.28	Powered parachutes	Trikes CAO 95.32			
		(thousands)									
QLD	0.1	1.1	27.1	0.5	8.0	0.2	2.2	2.2	41.3	41.4	
NSW	0.2	0.4	15.0	4.4	5.3	-	1.0	3.1	29.2	29.4	
VIC	-	0.1	18.7	0.4	3.3	0.1	5.6	1.0	29.3	29.3	
SA	0.1	0.3	6.4	1.5	2.4	0.1	0.7	0.6	12.1	12.1	
WA	0.1	-	5.2	-	1.7	-	1.0	0.5	8.4	8.4	
TAS	-	0.2	1.1	0.3	0.7	0.1	0.1	-	2.6	2.6	
NT	0.0	0.1	1.7	0.2	0.2	-	-	0.2	2.5	2.5	
ACT	0.0	0.0	0.4	-	0.1	0.0	0.1	-	0.6	0.6	
Australia	0.5	2.1	75.5	7.4	21.7	0.7	10.7	7.7	125.9	126.4	

a Covers hours flown during the previous 12 months at time of annual renewal of each aircraft's registration.
 Note: All statistics courtesy of Recreational Aviation Australia (RA-Aus). These statistics are subject to frequent revision. BITRE recommends caution when using these statistics.

Table 12 Hours flown^a in Ultralight operations, by category of aircraft (2008–2018)

Year	Uncertified aircraft CAO 95.10	Certified aircraft								Subtotal (Certified aircraft) Total
		Commercially manufactured			Amateur-built		Weight shift			
		CAO 95.25	CAO 95.55	CAO 101.55	CAO 95.55	CAO 101.28	Powered parachutes	Trikes CAO 95.32		
		(thousands)								
2008	2.9	11.7	71.2	19.1	36.7	3.5	3.9	7.2	153.3	
2009	2.8	11.6	88.3	16.8	39.7	3.3	4.2	7.5	171.5	
2010	3.0	9.0	111.8	12.3	41.0	3.0	3.5	16.7	197.4	
2011	2.1	6.4	121.7	9.6	38.5	1.8	2.3	16.2	196.6	
2012	1.0	6.9	125.1	8.5	34.0	1.4	2.9	8.1	186.9	
2013	1.0	7.1	90.2	10.5	30.5	1.4	2.3	10.5	152.5	
2014	2.4	7.8	112.8	7.7	32.0	1.4	2.6	9.4	173.7	
2015	1.0	7.9	103.6	7.9	35.1	2.0	2.5	7.1	166.0	
2016	1.0	4.8	93.8	5.8	29.9	1.5	4.4	7.1	147.2	
2017	0.5	2.7	94.0	4.6	7.8	7.5	7.8	7.5	143.5	
2018	0.5	2.1	75.5	7.4	21.7	0.7	10.7	7.7	125.9	
									126.4	

^a Covers hours flown during the previous 12 months at time of annual renewal of each aircraft's registration.

Note: All statistics courtesy of Recreational Aviation Australia (RA-Aus). These statistics are subject to frequent revision. BITRE recommends caution when using these statistics..

Survey form



Australian Government
Department of Infrastructure, Regional Development and Cities
Bureau of Infrastructure, Transport and Regional Economics

General Aviation Activity Survey
Year ended 31 December 2018

This information is collected under the authority of Air Navigation Regulation 2016, Part 2 which provides penalties for non-compliance. This survey has been approved by the Australian Government Statistical Clearing House (Approval Number 00560—11).

Please return the completed form by 19 April 2019.

For all aircraft operated in the year ending 31 December 2018, please provide aircraft registrations, postcode of aircraft base, and number of hours flown and landings. Flying activity performed entirely outside Australia or its Territories should not be recorded.

Name:	Username:
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		Aircraft Registration (a)						
		Postcode of Aircraft Base (b)						
			Hours	Landings	Hours	Landings	Hours	Landings
Commercial Air Transport	Scheduled	International						
		Domestic						
		Freight only						
	Non-Scheduled	Passenger transport charters						
		Air ambulance						
		Freight only						
		Other commercial air transport						
General Aviation	Aerial Work	Agricultural spreading / spraying						
		Agricultural mustering						
		Agriculture - other						
		Construction - sling loads						
		Construction - other						
		Photography						
		Pipeline or powerline surveying						
		Other surveying						
		Observation and Patrol						
		Search and Rescue						
		Policing						
		Firefighting						
		Advertising						
		Other aerial work						
		Own business travel						
		Instructional flying - commercial						
		Instructional flying - non-commercial						
	Sport & pleasure flying	Glider towing						
		Parachute dropping						
		Aerobatics						
		Joyflights / sightseeing charters						
		Pleasure and personal transport						
		Community service flights						
		Other sport and pleasure flying						
	Other flying	Test flights						
		Ferry flights						
		Other Flights						

Additional comments:

Email:

Phone:

Date:

- (a) Aircraft Registration: Pre-printed registrations are based on information supplied by the Civil Aviation Safety Authority. Please add any additional aircraft you operated in 2017 that are not listed. If insufficient room please photocopy form and attach additional sheets.
- (b) Aircraft Base: Please indicate the postcode of the aerodrome or landing area at which the aircraft was most frequently based during 2017. For balloon operations, indicate the postcode of the general area from which most flying was conducted.

DEFINITIONS

Flying hours should be recorded on the basis of the types of flying in which the aircraft was engaged, as defined below. Total time (including taxi time) is preferred, but airborne time or tacho time is acceptable if total time is not readily available.

Careful estimates are acceptable where exact figures are not readily available. *If your aircraft was inactive for all of 2017, please provide a 'Nil flying' response by entering '0' in the Hours and Landings fields, as this is required for producing accurate estimates of activity.*

Commercial Air Transport

Scheduled

International

Scheduled operations of international airlines operating into/out of Australia.

Domestic RPT

Scheduled operations of domestic airlines operating within Australia.

Freight only

Scheduled operations carrying freight only.

Non Scheduled

Passenger transport charters

Flying involving the carriage of passengers by the aircraft operator or his/her employees for hire or reward (but excluding scheduled airline operations).

Air Ambulance

Operations as an aerial ambulance for the transport of ill or injured persons (excluding Angel flights).

Freight only

Flying involving the carriage of cargo by the aircraft operator or his/her employees for hire or reward (but excluding scheduled airline operations).

Other commercial air transport

Includes on-demand charter and all other commercial air transport not classified elsewhere.

General Aviation

Aerial Work

Agricultural spreading / spraying

Flying involving the spreading/spraying of chemicals, seeds, and fertilisers. This includes flights to and from the spread / spray area.

Agricultural mustering

Aerial stock mustering involving the direct use of aircraft for the movement of livestock.

Other agriculture

Other agricultural activity including aerial culling and baiting.

Construction – sling loads

Flying using sling loads for construction purposes.

Construction – other

Includes all flying for construction purposes, excluding sling loads.

Photography

All aerial photographic work.

Pipeline or powerline surveying

Aerial inspection patrols along pipelines or powerlines.

Other Surveying

Flying involving the use of aircraft for surveying not classified elsewhere. Includes geophysical surveys.

Observation and patrol

Flying involving the use of aircraft for aerial observations and patrol. Includes coastal surveillance.

Search and rescue

Includes any search missions, as well as evacuation or rescue work.

Policing

Flying involving the use of aircraft in police operations, includes traffic control, ground support, high-speed car pursuits, observation, air patrol etc.

Fire fighting

Flying involving the use of aircraft to combat fires (e.g. spotting, water bombing etc.). This includes flights to and from the fire area.

Advertising

Includes skywriting and banner towing advertising.

Other Aerial work

Includes aerial spotting (stock, fish, etc.), cloud seeding, etc.

Own-use business travel

Business flying not through a hire or reward arrangement.

Instructional flying	Flying involving training for the issue or renewal of a licence or rating, aircraft type endorsement or conversion training. Includes solo navigation exercises conducted as part of a course of applied flying training.
Sport and pleasure flying	
<i>Pleasure and personal transport</i>	Flying for private pleasure, or personal transport not associated with a business or profession.
<i>Community service flights</i>	Flights that are provided on a voluntary basis for public benefit. This includes non-emergency flights provided as part of an organised voluntary or charitable activity. This does not include flights where a pilot provides a flight to a friend or family member.
<i>Glider towing</i>	Includes the use of aircraft for glider towing.
<i>Parachute dropping</i>	Flying associated with the dropping of parachutists.
<i>Aerobatics</i>	Aerobatic flight involves manoeuvres intentionally performed by an aircraft involving an abrupt change in its attitude, an abnormal attitude, or an abnormal variation in speed.
<i>Joyflights / sightseeing charters</i>	Flying involving the carriage of passengers for joyflights or sightseeing purposes that take off and land at the same location.
<i>Other sport and pleasure flying</i>	Other sport and pleasure flying not classified elsewhere.
Other flying	
<i>Test</i>	Flying associated with the testing of an aircraft.
<i>Ferry</i>	Flying associated with an aircraft delivery or movement to a location for maintenance, hire or other planned use.
<i>Other flying</i>	Flying not classified elsewhere.

DIFFICULTIES AND ENQUIRES

The aircraft and operator/owner details included on this form are provided to the Bureau by the Civil Aviation Safety Authority shortly before dispatch of the survey forms. Although the latest available information is used, there will inevitably be a number of short-term discrepancies involving recent changes of operator, ownership or address.

Should any discrepancies occur over the longer term, please advise your local CASA office.

If you have any questions relating to the survey, please contact Aviation Statistics Section on (02) 6274 6135, fax (02) 6274 7727 or email avstats@infrastructure.gov.au.

Definitions

Term	Definition
Advertising	Includes skywriting and banner towing advertising.
Aerobatics	Aerobatic flight involves manoeuvres intentionally performed by an aircraft involving an abrupt change in its attitude, an abnormal attitude, or an abnormal variation in speed.
Agricultural mustering	Aerial stock mustering involving the direct use of aircraft for the movement of livestock.
Agricultural spreading / spraying	Flying involving the spreading/spraying of chemicals, seeds, and fertilisers. This includes flights to and from the spread / spray area.
Air Ambulance	Operations as an aerial ambulance for the transport of ill or injured persons (excluding Angel flights).
Commercial Air Transport	An aircraft operation involving the transport of passengers, cargo or mail for remuneration or hire.
Community service flights	Flights that are provided on a voluntary basis for public benefit. This includes non-emergency flights provided as part of an organised voluntary or charitable activity. This does not include flights where a pilot provides a flight to a friend or family member.
Construction – other	Includes all flying for construction purposes, excluding sling loads.
Construction – sling loads	Flying using sling loads for construction purposes.
Domestic RPT	Scheduled operations of domestic airlines operating within Australia.
Ferry	Flying associated with an aircraft delivery or movement to a location for maintenance, hire or other planned use.
Fire fighting	Flying involving the use of aircraft to combat fires (e.g. spotting, water bombing etc.). This includes flights to and from the fire area.
General Aviation	An aircraft operation other than a commercial air transport operation.
Glider towing	Includes the use of aircraft for glider towing.
Instructional flying	Flying involving training for the issue or renewal of a licence or rating, aircraft type endorsement or conversion training. Includes solo navigation exercises conducted as part of a course of applied flying training.
International	Scheduled operations of international airlines operating into/out of Australia.

Term	Definition
Joyflights / sightseeing charters	Flying involving the carriage of passengers for joyflights or sightseeing purposes that take off and land at the same location.
Non- scheduled Freight only	Flying involving the carriage of cargo by the aircraft operator or his/her employees for hire or reward (but excluding scheduled airline operations).
Observation and patrol	Flying involving the use of aircraft for aerial observations and patrol. Includes coastal surveillance.
Other Aerial work	Includes aerial spotting (stock, fish, etc.), cloud seeding, etc.
Other agriculture	Other agricultural activity including aerial culling and baiting.
Other commercial air transport	Includes on-demand charter and all other commercial air transport not classified elsewhere.
Other flying	Flying not classified elsewhere.
Other sport and pleasure flying	Other sport and pleasure flying not classified elsewhere.
Other Surveying	Flying involving the use of aircraft for surveying not classified elsewhere. Includes geophysical surveys.
Own-use business travel	Business flying not through a hire or reward arrangement.
Parachute dropping	Flying associated with the dropping of parachutists.
Passenger transport charters	Flying involving the carriage of passengers by the aircraft operator or his/her employees for hire or reward (but excluding scheduled airline operations).
Photography	All aerial photographic work.
Pipeline or powerline surveying	Aerial inspection patrols along pipelines or powerlines.
Pleasure and personal transport	Flying for private pleasure, or personal transport not associated with a business or profession.
Policing	Flying involving the use of aircraft in police operations, includes traffic control, ground support, high-speed car pursuits, observation, air patrol etc.
Scheduled Freight only	Scheduled operations carrying freight only.
Search and rescue	Includes any search missions, as well as evacuation or rescue work.
Test	Flying associated with the testing of an aircraft.

Aviation Statistics publications

These publications and data releases are available in electronic format, and can be downloaded free of charge from the Department's web site at <https://bitre.gov.au/statistics/aviation/index.aspx>.

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Airline On Time Performance

Produced: Monthly, calendar and financial years.

Contents: Domestic airline on time performance by airline, route and airport.

Airport Traffic Data

Produced: Financial year, monthly for top 20 airports.

Contents: Time series of airport activity for the international, domestic and regional RPT sectors.

Australian Aircraft Activity

Produced: Calendar year.

Contents: Commercial Air Transport and General Aviation flying activity; hours flown and landings by category of operation and aircraft type; numbers of aircraft by type.

Australian Air Distances

Produced: As required.

Contents: Air distances covering routes operated on commercial services.

Australian Domestic Aviation Activity

Produced: Monthly, calendar and financial year.

Contents: Data supplied by Australian airlines operating over Australian flight stages; traffic on top competitive city pairs and industry totals.

Avline

Produced:	Financial year.
Contents:	Overview of Australian aviation industry including traffic data, air fares, and airport charges.

Domestic Airfares indexes

Produced:	Monthly.
Contents:	Time series of fare indexes covering business, full economy, restricted economy and best discount fares.

International Airline Activity

Produced:	Monthly, calendar and financial year.
Contents:	Comprehensive data on all international services to/from Australia. International passenger and freight traffic; operator market shares; city pair data; industry analysis.