

# FINAL REPORT – 2017 NOISE CONTOUR ANALYSIS

Aviation Acoustical and Land Use Compatibility  
Planning Services  
Miami-Opa Locka Executive Airport (OPF)

Prepared for  
Miami-Dade Aviation Department  
4200 NW 36th St.  
Miami, Florida 33102

December 27, 2018

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# MIAMI-OPA LOCKA EXECUTIVE AIRPORT

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## 2017 Noise Contours

### 1.0 Introduction and Overview

This report provides an analysis and overview of the noise modeling data preparation and resulting contours for the calendar year 2017 at Miami-Opa Locka Executive Airport (OPF). The FAA's Aviation Environmental Design Tool version 2d (AEDT 2d) was used to develop the Day-Night Average Sound Level (DNL) contours for the calendar year 2017.

The OPF 2017 noise contours were prepared using aircraft activity information from the calendar year 2017. The data used in generating the DNL contours was derived from the Miami International Airport (MIA) Airport Noise and Operations Monitoring System (ANOMS) data provided by the Miami-Dade Aviation Department (MDAD), the FAA's Operations Network (OPSNET) data, as well as communications with MDAD and OPF personnel. The ANOMS data included specific detailed information about the operation of the airport helpful in developing the OPF 2017 DNL contours, which were prepared using AEDT 2d. A detailed discussion of the model inputs used to develop these contours is included in the following sections.

### 2.0 OPF ANOMS Aircraft Operations

ANOMS data provided valuable information for noise contour development including the date, time of day, operation type (departure or arrival), runway used, flight and/or tail number, aircraft type, airline, and destination/origin for operations occurring at OPF. The ANOMS system recorded a total of 100,767 operations in 2017 while the FAA's OPSNET data, which reflect operations counts collected by OPF air traffic controllers, reported 131,544 operations at OPF during the same timeframe. Because of system limitations, the ANOMS is not able to capture every operation. The FAA's OPSNET data is considered the official activity count as logged by air traffic control (ATC). Note that the number of operations recorded by the OPF air traffic controllers reflect the hours in which the tower is in operation. The tower operating hours at OPF are between 7 AM and 11 PM local time. The ANOMS system recorded 4,816 operations between the hours of 11 PM and 7 AM. Therefore, the total operation count used for this noise contour development was adjusted to 136,360 (the sum of 131,544 and 4,816) to include the activity during periods when the tower was closed. This equates to an average of approximately 373 daily operations at OPF during calendar year 2017.

Further analysis of the ANOMS data showed that for some operations not all of the data was complete. This analysis identified 39,989 operations with incomplete aircraft type information.

The number of aircraft operations with detailed data available for the noise contour development was therefore 60,778. While this value is far less than the total 2017 aircraft operation count (136,360), the ANOMS destination and fleet data were prorated to the 131,544 operations reflected in the FAA's OPSNET database plus the 4,816 operations during hours when the tower was closed.

### 3.0 Aircraft Fleet Mix

For the 60,778 ANOMS operations where aircraft type information was available, the ANOMS aircraft type information was used to determine equivalent AEDT aircraft for the purposes of developing noise contours. In determining the AEDT-equivalent aircraft for the purposes of noise modeling, research was done by aircraft type to determine the specific fleet mixes and engine types. For example, the AEDT model includes a total of 22 Boeing 757-200 airframes with various combinations of engine codes and engine modification codes. Through specific fleet mix research, specific combinations of engine codes and engine modification codes were determined for the recorded aircraft in the ANOMS data. AEDT fleet mix was developed and is presented in **Appendix A-1** through **Appendix A-8** for various airport operational parameters, described below.

### 4.0 Stage Lengths

Once the specific fleet mix analysis was completed, departure destination information provided by the ANOMS was analyzed to determine departure stage lengths. An aircraft's stage length (or trip length) refers to the distance an aircraft flies from its origin airport (OPF) to its intended destination. The stage length is important in noise modeling since the longer the distance an aircraft will fly to its destination, the greater the fuel load required and overall weight and, as a result, the lower its departure profile will be. Stage lengths in the AEDT model include the following:

Stage Length 1:	0 to 500 miles
Stage Length 2:	500 to 1,000 miles
Stage Length 3:	1,001 to 1,500 miles
Stage Length 4:	1,501 to 2,500 miles
Stage Length 5:	2,501 to 3,500 miles
Stage Length 6:	3,501 to 4,500 miles
Stage Length 7:	4,501 to 5,500 miles
Stage Length 8:	5,501 to 6,500 miles
Stage Length 9:	6,500+ miles

There were an additional 5,247 ANOMS aircraft departures recorded without destination information. Specific research on destinations flown by individual aircraft was performed and utilized to determine unknown destinations, when applicable. Where no consistent destination could be determined, the percentage of unknown departure operations was prorated to reflect a cross section of stage lengths similar to those operations with known destinations. The stage length information used to develop the OPF 2017 noise contours is included in **Appendix A-1**.



## 5.0 Time of Day

Another important component in developing the DNL contours is determining the day-night use percentages for each AEDT aircraft type. This data is important because the DNL metric is a 24-hour, time-weighted energy average. The time-weighting refers to the fact that noise events occurring during certain noise sensitive time periods are weighted more heavily. For the DNL metric, noise events occurring between the hours of 10:00:00 p.m. and 6:59:59 a.m. receive an additional weight of 10 dB. This weight attempts to account for the higher sensitivity to noise in the nighttime and the expected decrease in background noise levels at night in comparison with background noise levels during the day. Because noise is measured on a logarithmic scale, an additional weight of 10 dB means that each nighttime noise event is weighted as equivalent to 10 daytime events.

The ANOMS data provided by MDAD included time-of-day information, which was useful in determining the day-night percentages. Overall, OPF has a day-night use percentage of approximately 95 percent day and 5 percent night use. **Table 1** shows the daytime and nighttime distribution for each operation type, while time-of-day percentages by AEDT aircraft type are shown in **Appendix A-2**.

**TABLE 1**  
**2017 DAYTIME AND NIGHTTIME USE PERCENTAGES**

	Arrival		Departure		Touch-and-Go		Total
	Day	Night	Day	Night	Day	Night	
<b>Total Operation Count</b>	48,250	2,497	48,250	2,497	33,151	1,715	136,360
<b>Percentage</b>	95%	5%	95%	5%	95%	5%	

SOURCE: MDAD ANOMS data, 2017; ESA, 2018.

## 6.0 Runway Use

Runway use percentages are another important component in developing noise contours. Some airports have a preferred or preferential runway use system that balances noise concerns with the safest and most efficient use of the airport. If a certain runway is used predominantly for departures while another runway is used for arrivals, the noise contours will differ to reflect the type of activity. The ANOMS data provided runway use information for each operation for the development of the 2017 noise contours. **Table 2** shows the runway use percentages by daytime percentage, nighttime percentage, and operation type for fixed-wing aircraft. From Table 2, it can be determined that OPF most commonly operates day and night in an east flow condition utilizing Runways 09L, 09R, and 12, a total of 79.8 percent of the time. This is a result of the strong ocean breezes and the performance needs of aircraft to depart into the wind. In addition, Runway 09L/27R was used for 76.2 percent of the time due to the locations of fixed base operators (FBOs). During the nighttime hours, Runway 12 has the highest percentage of runway operations for all operations.

**TABLE 2**  
**2017 RUNWAY USE PERCENTAGES – FIXED-WING AIRCRAFT**

Runway	Arrival		Departure		Touch-and-Go		Total Rwy Use Percentage
	Day	Night	Day	Night	Day	Night	
09L	62.6%	5.1%	68.3%	5.7%	63.4%	0.9%	62.1%
27R	19.1%	2.3%	13.8%	1.5%	10.1%	1.8%	14.1%
09R	2.0%	0.3%	1.2%	2.2%	4.9%	12.1%	2.6%
27L	0.5%	0.3%	0.5%	0.2%	1.4%	1.3%	0.7%
12	14.4%	83.4%	8.7%	54.8%	15.2%	65.6%	15.1%
30	1.4%	8.6%	7.6%	35.6%	5.1%	18.3%	5.4%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

SOURCE: MDAD ANOMS data, 2017; FAA OPSNET data, 2017; ESA, 2018.  
Note: Percentages may not equal 100% due to rounding.

Runway use percentages are also influenced by the relationship between the runway location and where aircraft park on the airport. OPF has several FBOs and hangars along Runway 9L/27R and Runways 12/30. For this reason, runway use percentages by aircraft type were also determined and used to develop the OPF 2017 noise contours. Daytime and nighttime runway use percentages by AEDT aircraft type are included in **Appendix A-3** and **Appendix A-4** respectively for departures, **Appendix A-5** and **Appendix A-6** respectively for arrivals, and **Appendix A-7** and **Appendix A-8** respectively for touch-and-go operations.

Helicopters conducting touch-and-go operations were modeled as separate arrivals and departures as required by AEDT. It was assumed that the all helicopter operations would occur at the helipad designated as H1 in the model, which is located at the U.S. Coast Guard terminal area. Therefore, all helicopter takeoff and landing locations were consolidated to this location, labeled as H1 throughout **Appendix A**. Due to a lack of detailed information, the helicopter touch-and-go directions out of H1 were evenly distributed to each cardinal direction (north, south, east, and west).

## 7.0 Flight Track Locations and Use Percentages

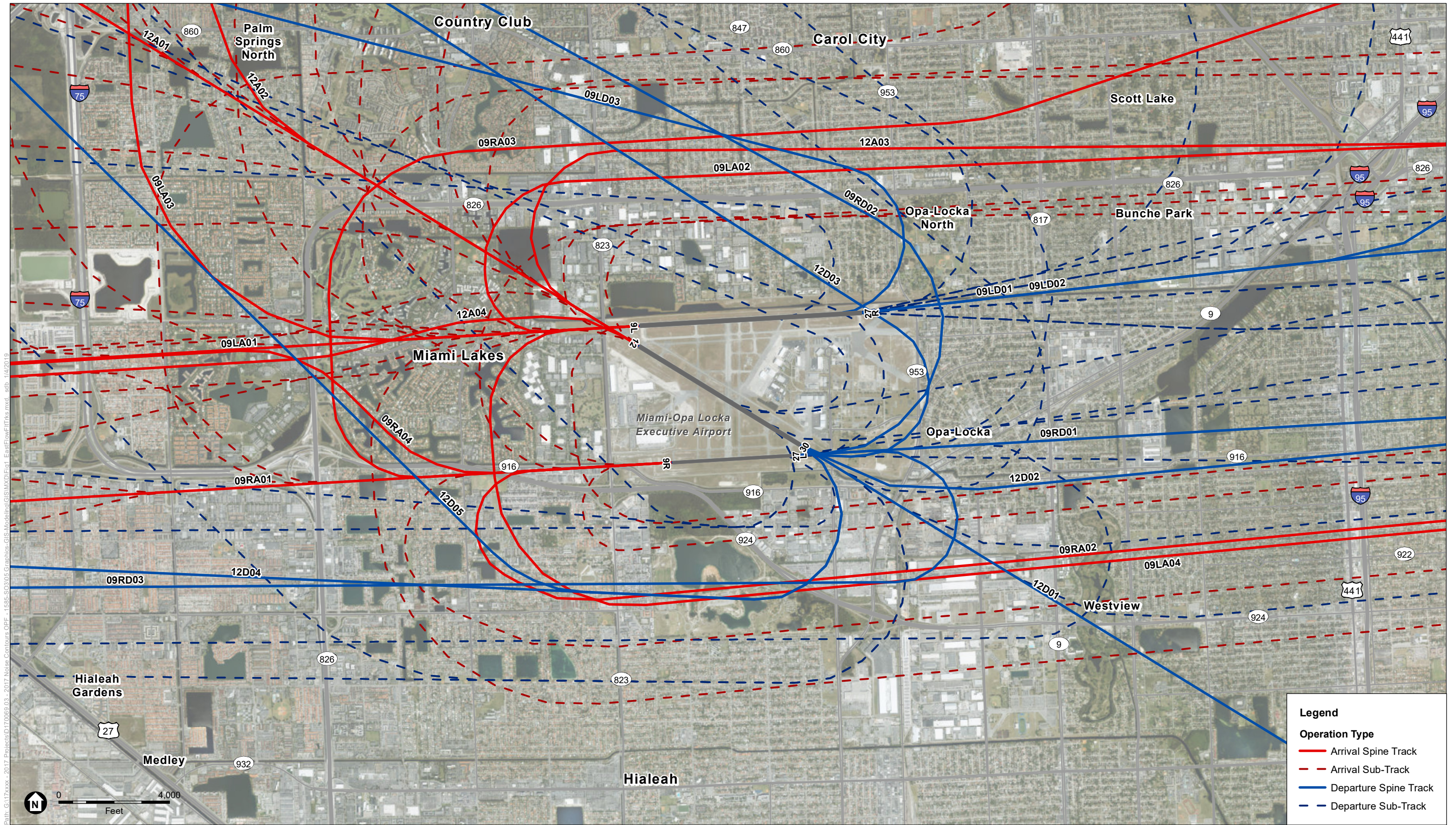
To determine noise levels on the ground, it is not only important to know how many operations are occurring and on what runways, but also to know where the aircraft are flying beyond the runways as they ingress and egress the airport. Flight track locations and flight track use percentages are key elements in the development of the DNL contours. In order to obtain this information, MDAD provided radar flight tracks to and from each runway at OPF for the calendar year 2017.

The flight track use percentages are provided by runway end in **Appendix A-9**. Dispersion of aircraft operations across sub-tracks is presented in **Appendix A-10**. The flight track locations are depicted in **Figures 1, 2, and 3**.

It should be noted that the commercial jet aircraft and larger general aviation turboprop aircraft were assumed to be using straight-in and straight-out flight tracks instead of presented percentages in Appendix A-8. It was assumed that those aircraft would not make sharp turns before landing or after take-off. These large jets comprise 11% of the operations at OPF. Below is the list of AEDT airframes assigned to straight-in and straight-out flight tracks.

Airbus A300F4-600 Series	Boeing 767-300 Series	Bombardier de Havilland Dash 8 Q400
Airbus A320-200 Series	Boeing 777-200 Series	Bombardier Global 6000 Business
Airbus A321-200 Series	Boeing 777-200-LR	Bombardier Global Express
Airbus A330-200 Series	Boeing 787-900 Dreamliner	CASA 212-100 Series
Airbus A330-300 Series	Boeing C-17A	CASA CN-235-100
Airbus A340-600 Series	Boeing DC-10-30 Series	Convair CV-240/T-29
Airbus A380-800 Series/Trent 970	Boeing DC-6	Convair CV-580
Antonov 12 Cub	Boeing DC-8 Series 70	DeHavilland DHC-6-100 Twin Otter
ATR 72-200	Boeing DC-9-10 Series	Embraer ERJ135
ATR 72-600	Boeing MD-11 Freighter	Embraer ERJ145
B787-8R	Boeing MD-82	Embraer ERJ170
Boeing 727-200 Series	Boeing MD-83	Embraer ERJ190
Boeing 737-300 Series	Boeing MD-88	Gulfstream IV-SP
Boeing 737-400 Series	Boeing MD-90	Gulfstream V-SP
Boeing 737-500 Series	Bombardier Challenger 350	Lockheed C-130 Hercules
Boeing 737-700 Series	Bombardier Challenger 604	Lockheed L-1329 Jetstar II
Boeing 737-900-ER	Bombardier Challenger 650	Lockheed P-3 Orion ANP:P3A
Boeing 747-400 Series	Bombardier CRJ-200	Raytheon Beech 1900-C
Boeing 757-200 Series	Bombardier CRJ-700	Saab 340-A
Boeing 757-300 Series	Bombardier CRJ-900	Shorts 330
Boeing 767-200 Series	Bombardier de Havilland Dash 8 Q100	Shorts 360-100 Series

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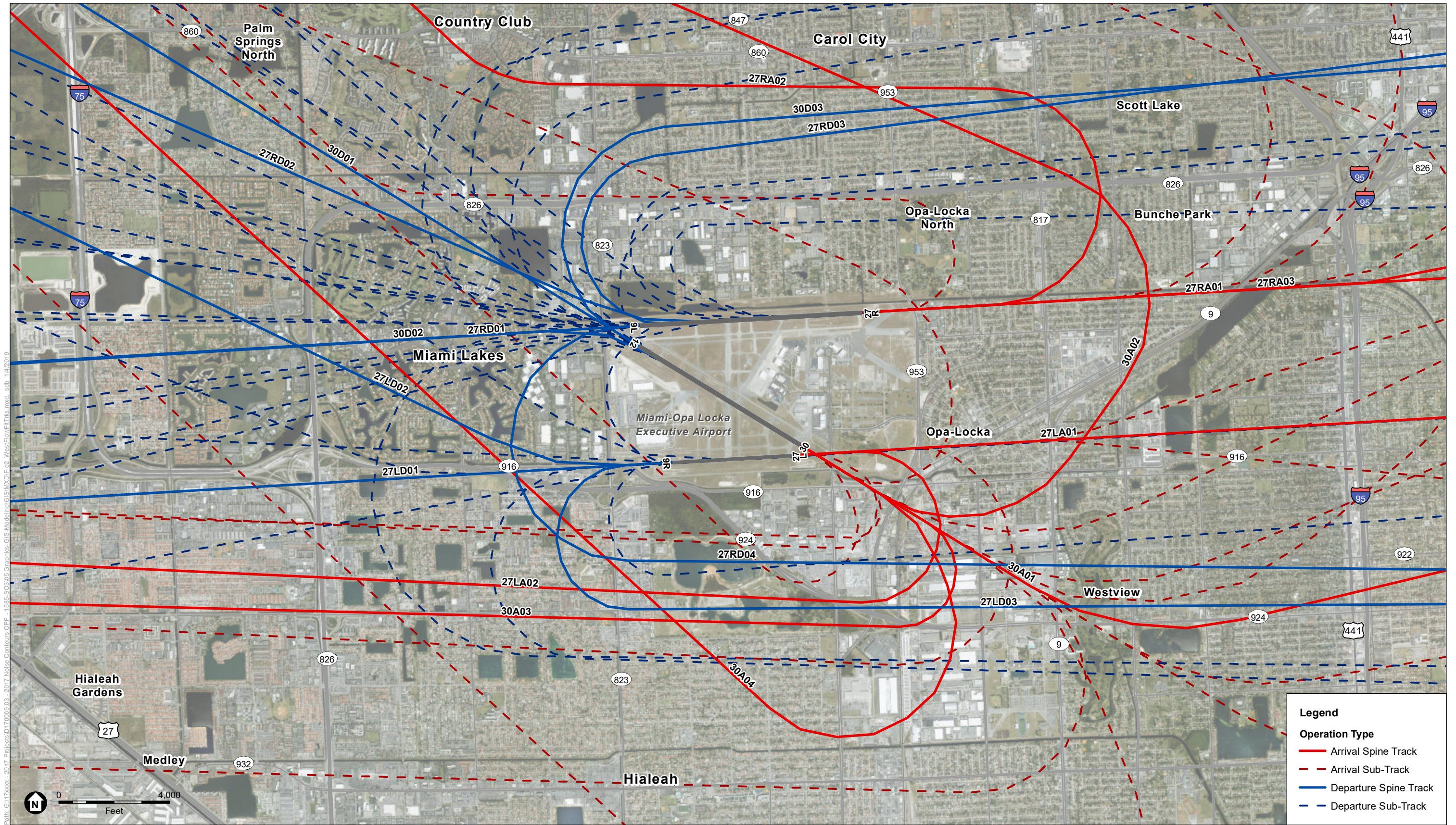


SOURCE: AEDT 2d; ESA, 2018; World Imagery (Aerial)  
 AEDT = Aviation Environmental Design Tool

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**Figure 1**  
 Fixed-Wing AEDT Flight Tracks - East Flow  
 Miami-Opa Locka Executive Airport

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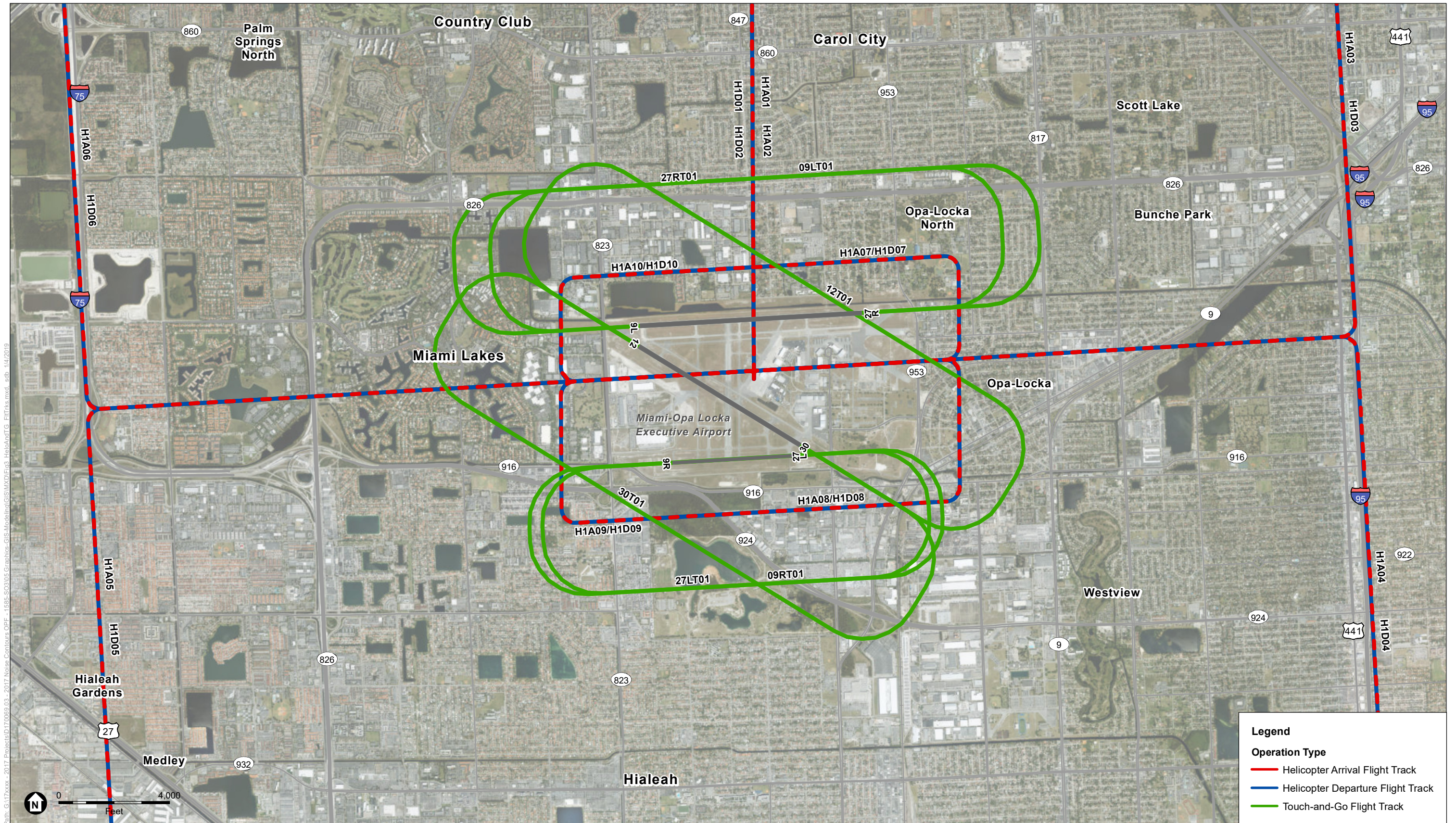
SOURCE: AEDT 2d; ESA, 2018; World Imagery (Aerial)  
 AEDT = Aviation Environmental Design Tool

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**Figure 2**  
 Fixed-Wing AEDT Flight Tracks - West Flow  
 Miami-Opa Locka Executive Airport

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SOURCE: AEDT 2d; ESA, 2018; World Imagery (Aerial)  
 AEDT = Aviation Environmental Design Tool  
 Note: Helicopter touch-and-go operations were modeled as separate arrivals and departures since AEDT does not have the function to model helicopter touch-and-go operations.

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**Figure 3**  
 Helicopter and Fixed-Wing Touch-and-Go AEDT Flight Tracks  
 Miami-Opa Locka Executive Airport



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## 8.0 2017 DNL Contours

The information described above was compiled and incorporated into the AEDT. The AEDT calculates noise using a defined network of grid points at ground level around an airport. It computes the noise generated by each aircraft operation, by aircraft type and engine thrust level along each flight track. Corrections are applied for atmospheric acoustical attenuation, acoustical shielding of the aircraft engines by the aircraft itself, and aircraft speed variations. The noise exposure levels for each aircraft are then summed at each grid point. The cumulative noise exposure levels at all grid points are then used to develop noise exposure contours for selected values (e.g. DNL 65, 70 and 75 dB). Using the results of the grid point analysis, noise contours of equal noise exposure can then be plotted. The 2017 OPF noise contours for DNL 65, 70, and 75 dB are shown in **Figure 4**. These contours represent the noise exposure to areas surrounding OPF on an average annual day. The overall shape of the noise contours reflects the east and west orientation of the runways at OPF. The areas of the contours in square miles are shown in **Table 3**. Each contour area is inclusive of the subsequent contour areas. Therefore, the cumulative footprint of all three contours is approximately 0.95 square miles.

**TABLE 3**  
**2017 DNL CONTOUR AREAS**

DNL	Contour Area (Square Miles)
65 and greater	0.95
70 and greater	0.47
75 and greater	0.23

SOURCE: AEDT 2d; ESA 2018.

As stated previously, OPF typically operates in an east flow condition due to the predominant winds at the airport. The narrower, more defined bands to the west of the airport reflect the influence of the high number of arriving aircraft from the west, while the wider bands of contours to the east reflect the higher number of aircraft departures to the east.

## 9.0 2000 vs 2017 DNL Contour Comparison

In order to determine the changes in noise exposure that occur over time, it is helpful to compare previous contours to existing contours. With the understanding that the OPF 2017 DNL contours were produced with AEDT 2d and the 2000 DNL contours were produced with the FAA's Integrated Noise Model (INM), every effort was made to ensure that the differences in models did not unduly influence the contour shapes.

A comparison of the OPF 2017 and 2000 DNL contours is shown in **Figure 5**. It should be noted that the 2000 DNL contours were manually digitized based on Exhibit 3-6 of the 2003 OPF Noise Mitigation Evaluation report. Noise exposure areas of increase and decrease between the OPF 2017 and 2000 DNL contours are depicted in **Figure 6**. As seen in Figure 6, the only area of an increase in noise exposure in 2017 is a helipad that is on airport property. The modeled helipad for the 2017 DNL contours is located at the east of USCG station and for the 2000 DNL contours

is located near the intersection of Taxiways C and N. **Table 4** compares the area coverage of 2017 and 2000 contours.

**TABLE 4**  
**DNL CONTOUR AREA COMPARISON**

DNL	DNL Contour Area (Square Miles)		
	2000 Contour Area <sup>1</sup>	2017 Contour Area	Difference
<b>65 and greater</b>	2.08	0.95	-1.13
<b>70 and greater</b>	0.97	0.47	-0.50
<b>75 and greater</b>	0.54	0.23	-0.31

SOURCE: INM; AEDT 2d; ESA, 2003; ESA, 2018.

<sup>1</sup>OPF 2000 DNL contour areas derived from digitization of 2000 DNL contours presented in the 2003 OPF Noise Mitigation Evaluation report.

As presented in Table 4, the 2017 DNL contours are significantly smaller than the 2000 DNL contours. There are several reasons for this difference. **Table 5** compares the aircraft operations during 2000 and 2017.

**TABLE 5**  
**AIRCRAFT OPERATIONS COMPARISON**

Year	Departures		Arrivals		Touch and Go		Total
	Day	Night	Day	Night	Day	Night	
<b>2017</b>	48,250	2,497	48,250	2,497	33,151	1,715	136,360
<b>2000</b>	43,065	5,860	43,065	5,860	49,740	0	147,589
<b>Difference</b>	+5,186	-3,363	+5,186	-3,363	-16,589	+1,715	-11,229

SOURCE: MIA ANOMS Data, 2017; FAA Air Traffic Activity Data System, 2017; FAA OPSNET Data, 2017; ESA, 2003; ESA, 2018.

The 2000 DNL contour area is 1.13 square miles larger than the 2017 DNL contour area. There are several reasons that the 2000 DNL contour area is larger. One obvious reason is that the number of total aircraft operations decreased by 11,229 (approximately 8%) from 2000 to 2017. In addition, more nighttime operations occurred in 2000. As described in Section 5.0 of this report, one nighttime operation is counted as 10 daytime operations for the DNL calculation. **Table 6** presents the aircraft operations in Table 5 translated to the DNL-weighted operations (nighttime operations were multiplied by 10).

**TABLE 6**  
**AIRCRAFT OPERATIONS COMPARISON WITH NIGHTTIME-WEIGHTED OPERATIONS**

Year	Departures		Arrivals		Touch and Go		Total
	Day	Night	Day	Night	Day	Night	
2017	48,250	24,970	48,250	24,970	33,151	17,150	196,741
2000	43,065	58,600	43,065	58,600	49,740	0	253,070
<b>Difference</b>	+5,186	-33,630	+5,186	-33,630	-16,589	+17,150	-56,329

SOURCE: MIA ANOMS Data, 2017; FAA Air Traffic Activity Data System, 2017; FAA OPSNET Data, 2017; ESA, 2003; ESA, 2018.

The weighted total operation count in 2017 is 56,329 operations less than the count in the year 2000. This contributes to the smaller-size noise contours in 2017.

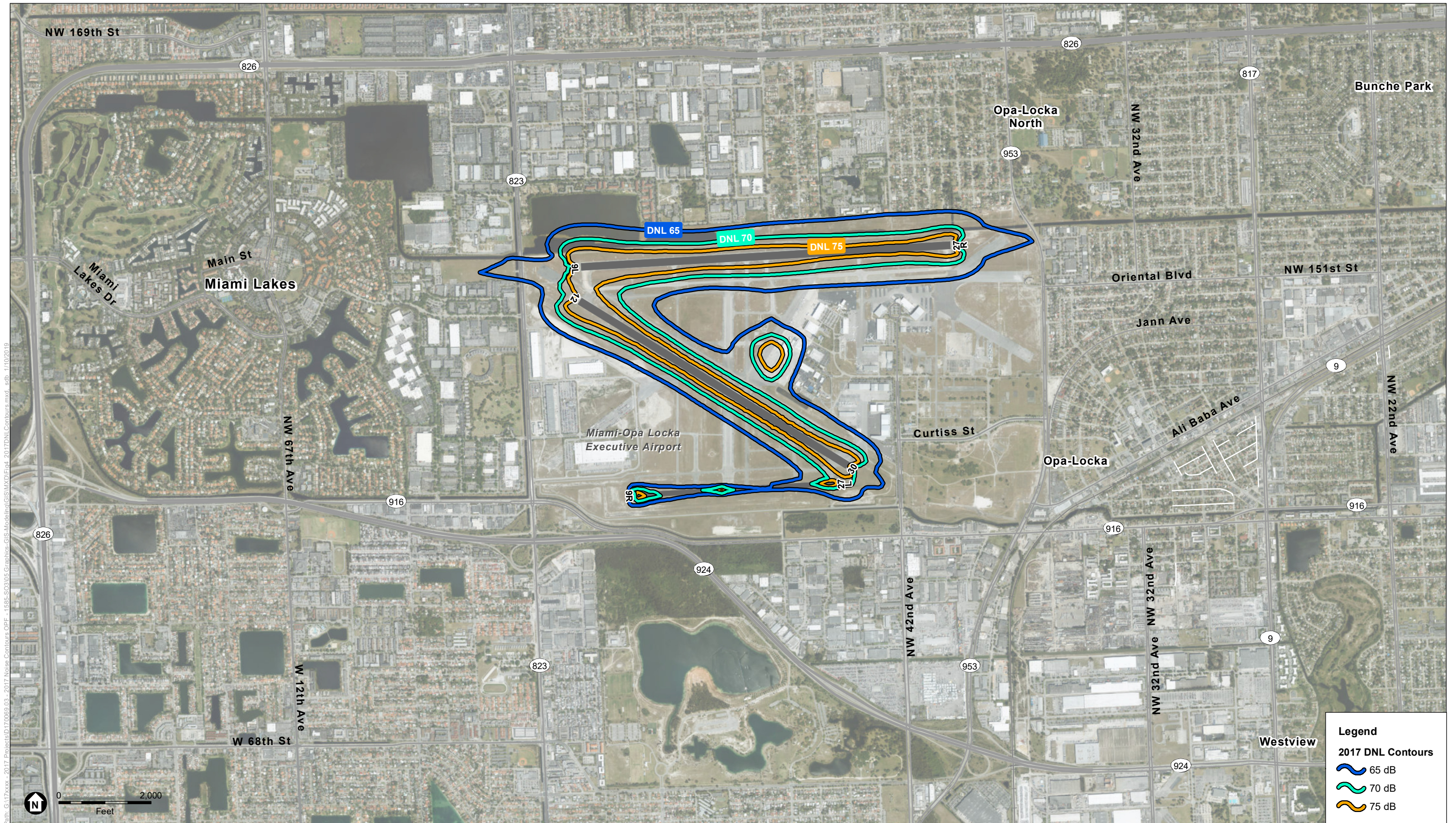
Furthermore, aircraft types operated at OPF in 2000 and 2017 are also different. Table 7 compares the operation counts of notable loud aircraft types between 2000 and 2017. The reduction in operating counts of these types also contributes to smaller 2017 DNL contours.

**TABLE 7**  
**NOTABLE AIRCRAFT OPERATIONS COMPARISON**

Aircraft	2000	2017	Difference
Boeing 727-200	320	6	-314
Boeing 747-100	14	0	-14
Boeing DC-870	34	2	-32
Bombardier Learjet 25	1,904	8	-1,896

SOURCE: MIA ANOMS Data, 2017; FAA Air Traffic Activity Data System, 2017; FAA OPSNET Data, 2017; ESA, 2003; ESA, 2018.

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SOURCE: AEDT 2d; ESA, 2018; World Imagery (Aerial)  
 AEDT = Aviation Environmental Design Tool  
 DNL = Day-Night Average Sound Level  
 dB = Decibel

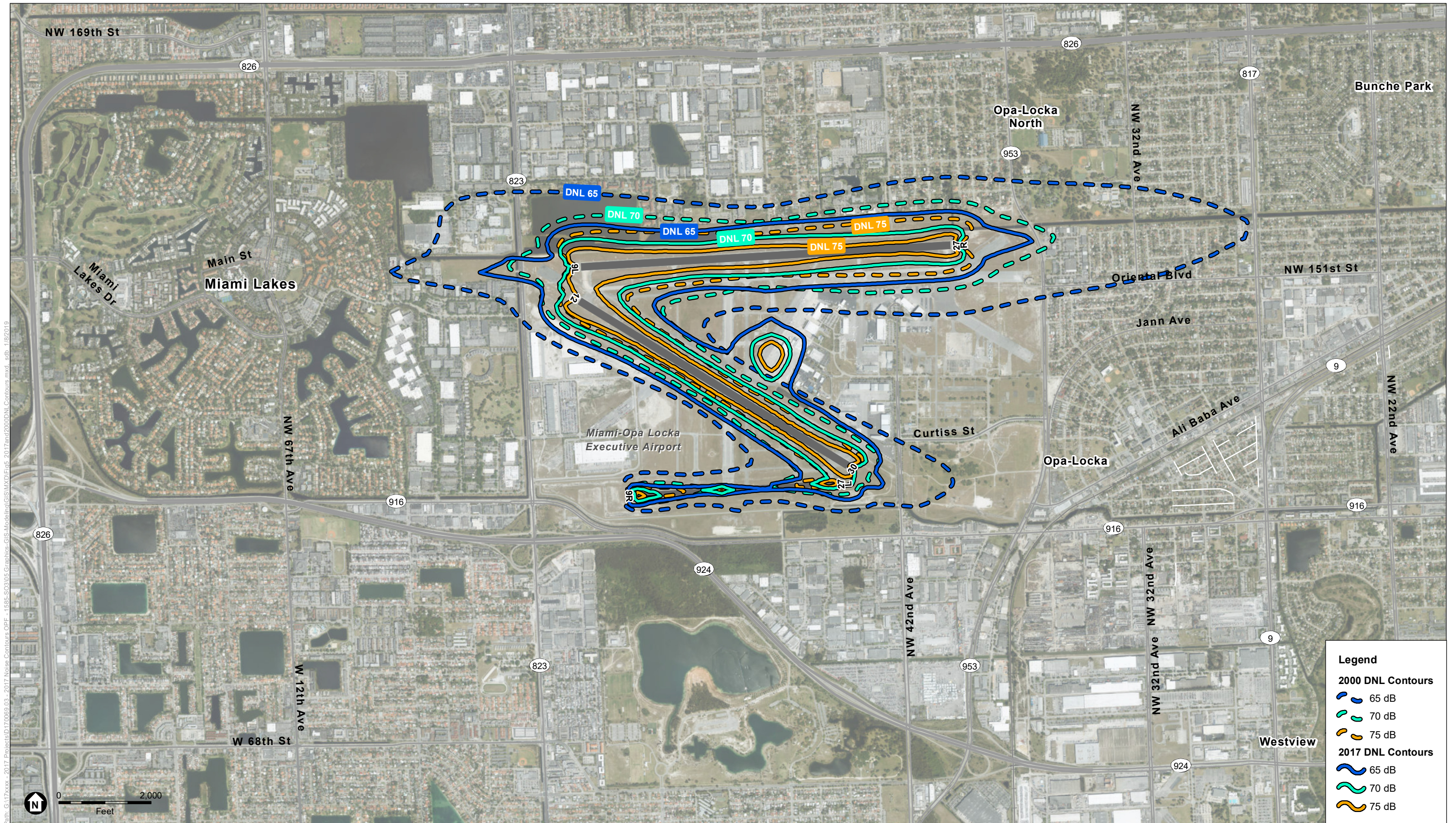
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**Figure 4**  
 2017 DNL Contours  
 Miami-Opa Locka Executive Airport



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SOURCE: OPF Noise Mitigation Evaluation Report, 2003; AEDT 2d; ESA, 2018; World Imagery (Aerial)

AEDT = Aviation Environmental Design Tool

DNL = Day-Night Average Sound Level

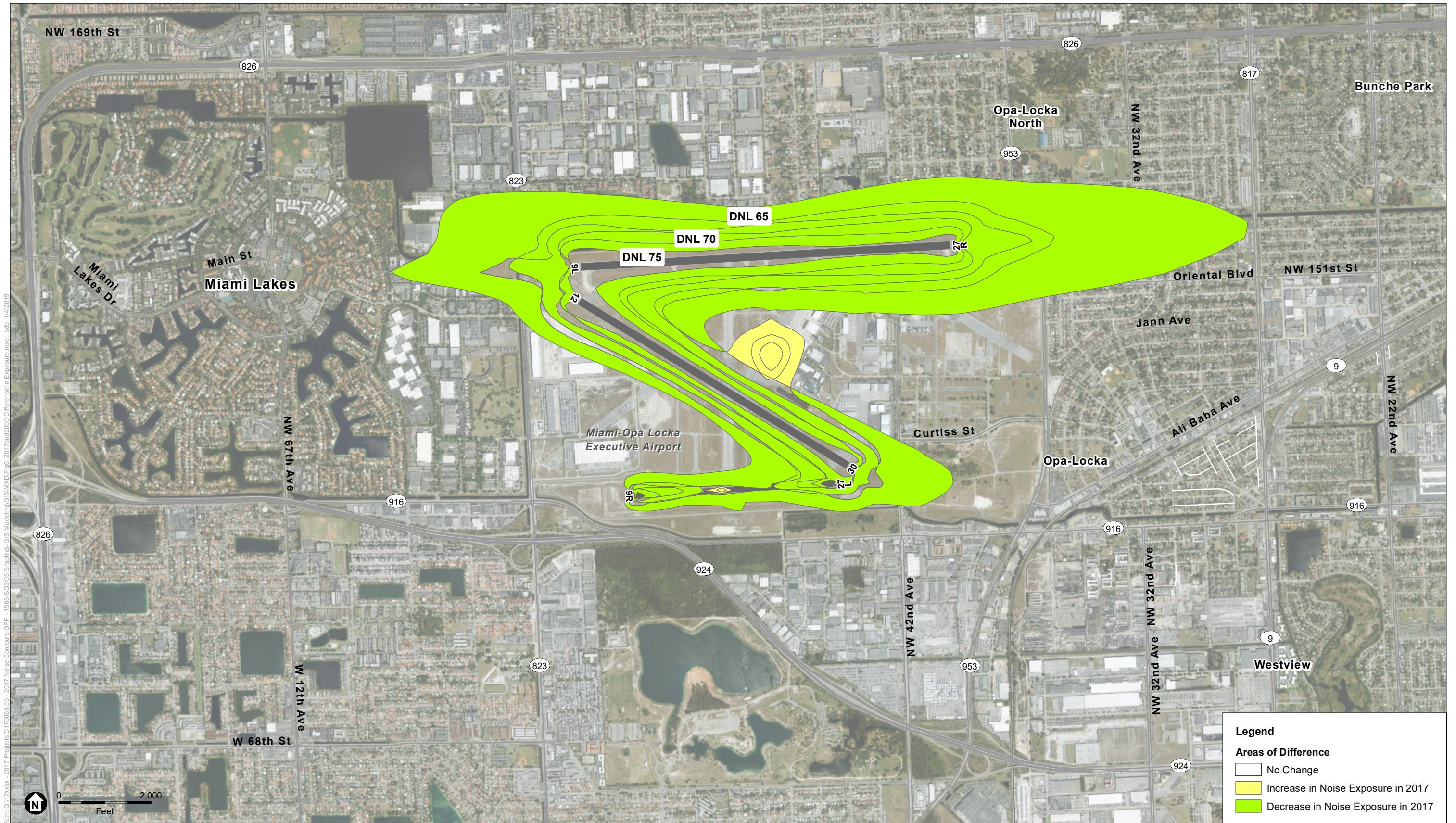
dB = Decibel

NOTE: OPF 2000 DNL contours were reproduced via digitization from the OPF 2003 Noise Mitigation Evaluation Report.

Miami-Opa Locka Executive Airport 2017 Noise Contour Development - D170069.03

**Figure 5**  
2000 and 2017 DNL Contour Comparison  
Miami-Opa Locka Executive Airport

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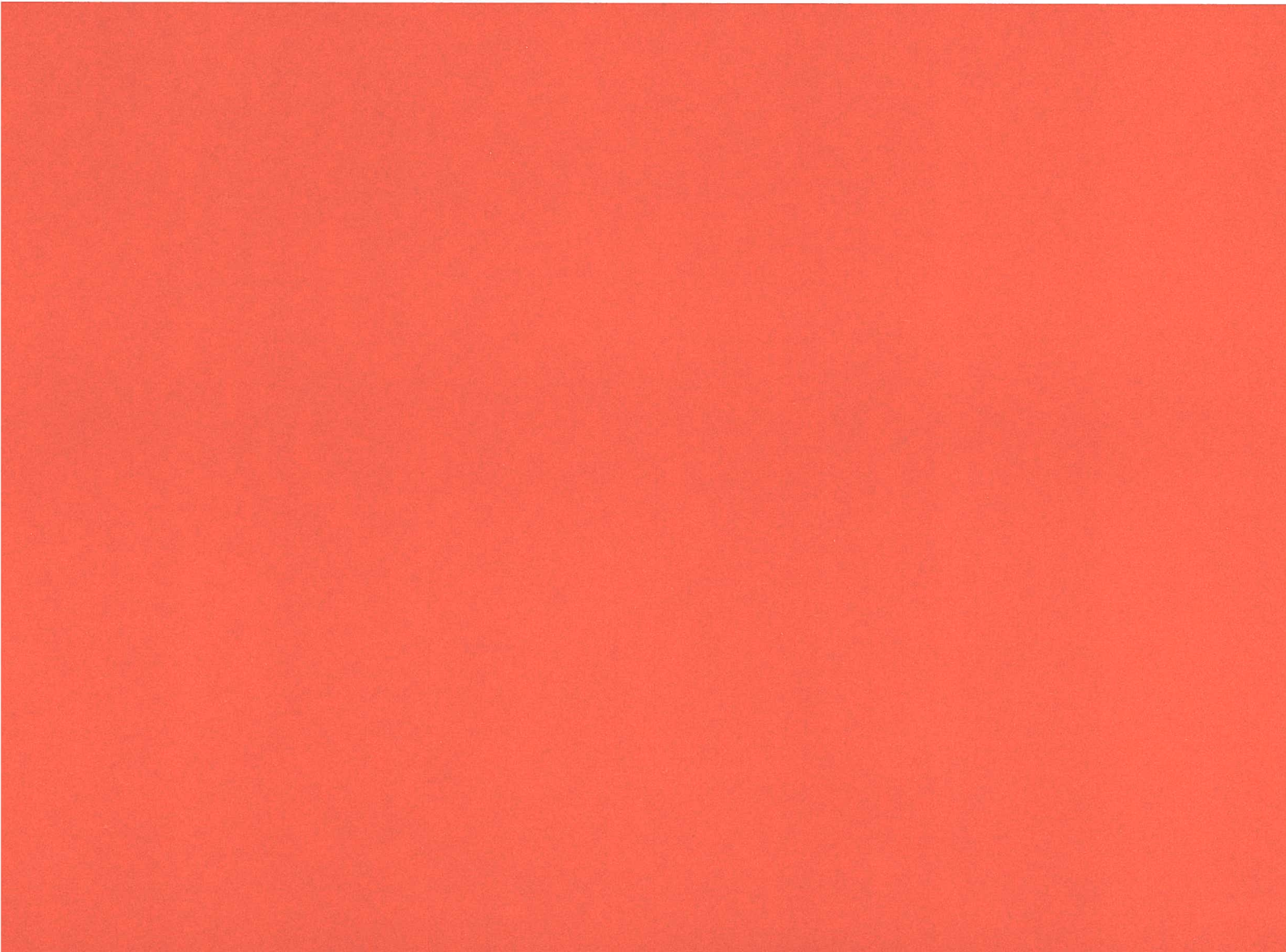
SOURCE: OPF Noise Mitigation Evaluation Report, 2003; AEDT 2d; ESA, 2018; World Imagery (Aerial)  
 AEDT = Aviation Environmental Design Tool  
 DNL = Day-Night Average Sound Level  
 dB = Decibel  
 NOTE: OPF 2000 DNL contours were reproduced via digitization from the OPF 2003 Noise Mitigation Evaluation Report.

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**Figure 6**  
 Differences in Noise Exposure - 2000 versus 2017 DNL Contours  
 Miami-Opa Locka Executive Airport



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## **APPENDIX A**

### Operations Information

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# 2017 OPF NOISE CONTOUR UPDATE

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- Appendix A-1 2017 Total Operations and Stage Length Percentages
- Appendix A-2 2017 Operations Time of Day Percentages
- Appendix A-3 2017 Day Departure Runway Use Percentages
- Appendix A-4 2017 Night Departure Runway Use Percentages
- Appendix A-5 2017 Day Arrival Runway Use Percentages
- Appendix A-6 2017 Night Arrival Runway Use Percentages
- Appendix A-7 2017 Fixed-Wing Aircraft Touch and Go Runway Use Percentages – Day
- Appendix A-8 2017 Fixed-Wing Aircraft Touch and Go Runway Use Percentages – Night
- Appendix A-9 2017 Flight Track Utilization
- Appendix A-10 2017 Flight Track Dispersion Percentages



## **APPENDIX A-1**

# 2017 Total Operations and Stage Length Percentages

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## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
1985 1-ENG COMP	TIO540	NONE	763.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
1985 BUSINESS JET	1AS002	NONE	53.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
A-7E Corsair	TF41A2	TF41-A-1	26.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	652.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Aerostar PA-60	TIO540	NONE	44.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Agusta A-109	250B17	NONE	162.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Agusta A119	250B17	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Air Tractor 802	P667AF	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A300F4-600 Series	1GE007	NONE	8.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A320-200 Series	1IA001	NONE	84.6	46.9%	21.9%	28.1%	3.1%	0.0%	0.0%	0.0%	100.00%
Airbus A321-200 Series	1CM008	NONE	39.5	56.3%	25.0%	18.8%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A330-200 Series	2RR022	NONE	19.4	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A330-300 Series	1PW053	NONE	1.8	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A340-600 Series	6RR041	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.8	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Airbus A380-800 Series/Trent 970	9EA001	NONE	1.8	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Antonov 12 Cub	AI24VT	NONE	7.1	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
ATR 42-300	PW120	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
ATR 72-200	BIZHEAVYPROP	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
ATR 72-200	PW127G	NONE	366.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
ATR 72-600	PW127F	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Aviat Husky A1B	IO360	NONE	8.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
B787-8R	2GE048	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
BAE Jetstream 31	TPE10	NONE	28.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
BEECH MENTOR (BE45) PT6A-25	NM PT6A34	PT6A-25	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Bell 206 JetRanger	250B17	NONE	2497.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bell 214B-1	T400	NONE	1734.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bell 222	TPE1	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	60.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bell 427	TPE1	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bell 430	250B17	NONE	16.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 727-200 Series	1PW009	BFG	6.1	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 737-300 Series	CFM563	NONE	14.1	20.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 737-400 Series	CFM563	NONE	10.6	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 737-500 Series	8GE107	NONE	8.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 737-700 Series	1CM007	NONE	189.2	31.2%	22.5%	13.3%	16.9%	0.0%	16.1%	0.0%	100.00%
Boeing 737-900-ER	11CM077	NONE	35.3	28.6%	28.6%	35.7%	7.1%	0.0%	0.0%	0.0%	100.00%
Boeing 747-400 Series	3GE077	NONE	10.6	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 757-200 Series	1RR012	NONE	14.1	66.7%	16.7%	0.0%	16.7%	0.0%	0.0%	0.0%	100.00%
Boeing 757-200 Series	4PW072	NONE	16.7	60.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 757-300 Series	4PW073	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 767-200 Series	1GE010	NONE	4.3	81.1%	18.9%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 767-300 Series	1GE012	NONE	28.0	52.0%	14.9%	22.1%	11.0%	0.0%	0.0%	0.0%	100.00%
Boeing 777-200 Series	7GE097	NONE	10.5	15.7%	42.2%	42.2%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing 777-200-LR	7GE097	NONE	3.5	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100.00%
Boeing 787-900 Dreamliner	11GE138	NONE	6.1	28.9%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing C-17A	F1171	NONE	35.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing CH-46 Sea Knight	T588F	NONE	26.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-10-30 Series	3GE069	NONE	1.8	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-10-30ER	3GE074	NONE	26.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-3	R1820	R1820-86	229.7	92.3%	4.9%	2.9%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	1178.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-6	R1820	R-2800-CB17	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-8 Series 70	1CM001	NONE	1.8	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-9-10 Series	1PW006	NONE	12.2	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing MD-11 Freighter	12PW101	NONE	3.5	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing MD-11 Freighter	3GE078	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing MD-82	1PW017	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing MD-83	4PW068	NONE	50.6	29.0%	52.2%	7.3%	11.6%	0.0%	0.0%	0.0%	100.00%
Boeing MD-88	1PW017	NONE	14.1	33.3%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing MD-90	1IA004	NONE	9.6	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boelkow BO-105	250B17	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Challenger 350	14HN009	NONE	344.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Challenger 604	5GE084	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Challenger 650	5GE084	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier CRJ-200	5GE084	NONE	259.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier CRJ-700	8GE112	NONE	44.1	33.3%	46.7%	20.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier CRJ-900	6GE092	NONE	8.8	60.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	8.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Global 6000 Business	4BR009	NONE	0.8	26.4%	35.8%	13.2%	5.7%	1.9%	13.2%	3.8%	100.00%
Bombardier Global Express	4BR008	NONE	2213.8	33.6%	36.0%	10.7%	13.2%	0.4%	5.3%	0.8%	100.00%
Bombardier Learjet 25	CJ6106	NONE	7.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 31	1AS001	NONE	420.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 35	1AS001	NONE	981.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	396.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	1748.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Bombardier Learjet 55	1AS002	NONE	1370.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	2768.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	28.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	120.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Britten-Norman BN-2 Islander	TIO540	NONE	19.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
CASA 212-100 Series	PT6A28	NONE	15.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
CASA CN-235-100	CT7-5	NONE	2101.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 150 Series	O200	NONE	1255.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 172 Skyhawk	IO320	NONE	30011.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 182	IO360	NONE	1098.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 206	TIO540	IO-540-AC	371.9	98.1%	0.9%	0.9%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 208 Caravan	PT6A14	NONE	1316.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 210 Centurion	TIO540	NONE	244.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 310	TIO540	NONE	200.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 337 Skymaster	IO360	NONE	22.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 340	TIO540	NONE	103.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 402	TIO540	NONE	2120.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 404 Titan II	TIO540	NONE	49.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 414	TIO540	NONE	392.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 421 Golden Eagle	TIO540	NONE	267.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 425 Conquest I	PT6112	NONE	95.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 441 Conquest II	TPE10	NONE	96.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	111.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 501 Citation ISP	1PW035	NONE	118.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	1210.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	705.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	689.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	352.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	1295.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 551 Citation IISP	1PW036	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	1622.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	3378.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 650 Citation III	TFE731	NONE	726.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	1474.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	57.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cessna 750 Citation X	4AL003	NONE	1810.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	790.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cirrus SR20	IO360	NONE	296.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Cirrus SR22	TIO540	NONE	5960.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Convair CV-240/T-29	R1820	NONE	1808.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Convair CV-580	250B17	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dassault Falcon 10	1AS001	NONE	131.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dassault Falcon 2000	CF700D	NONE	1514.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dassault Falcon 20-C	CF700D	NONE	340.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dassault Falcon 50	TFE731	NONE	1325.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dassault Falcon 900	TFE731	NONE	1313.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	26.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	35.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dornier 328 Jet	1TL004	NONE	3.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dornier 328 Jet	7PW078	NONE	6.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Dornier 328-100 Series	PW119B	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
EADS Socata TB-10 Tobago	IO360	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
EADS Socata TB-20 Trinidad	TIO540	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
EADS Socata TBM-700	PT6A64	NONE	450.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	550.5	73.8%	26.2%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer 500	BIZLIGHTJET_F	NONE	384.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer 505	BIZLIGHTJET_F	NONE	1447.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer EMB120 Brasilia	PW118	NONE	13.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer ERJ135	6AL012	NONE	559.6	33.5%	58.5%	4.8%	3.1%	0.0%	0.0%	0.0%	100.00%
Embraer ERJ145	4AL003	NONE	140.6	31.8%	61.4%	4.5%	2.3%	0.0%	0.0%	0.0%	100.00%
Embraer ERJ170	8GE107	NONE	30.0	50.0%	37.5%	12.5%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer ERJ190	8GE115	NONE	26.3	40.2%	40.2%	19.6%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	25.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	62.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
EPIC Victory	BIZVERYLIGHTJET_F	NONE	10.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Eurocopter EC 120	PT6A27	NONE	15.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Eurocopter EC-130	TPE3	NONE	41.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Eurocopter EC-155B1	T400	NONE	7515.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Extra EA-500	250B17	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Fairchild SA-227-AC Metro III	TPE10	NONE	205.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Falcon 7X	8PW091	NONE	260.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Fokker F27-100 Series	DART14	NONE	10.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	123.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	341.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream G200	7PW077	NONE	1369.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream G280	11HN005	NONE	138.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream G450	6RR042	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Gulfstream G500	3BR001	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream G550	3BR001	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream I	DART52	NONE	9.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream II-B	1RR016	NONE	21.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream IV-SP	6RR042	NONE	5007.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Gulfstream V-SP	3BR001	NONE	1612.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Hawker 900XP	BIZMEDIUMJET_F	NONE	550.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	21.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	142.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Israel IAI-1124 Westwind I	CJ6106	NONE	625.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Israel IAI-1125 Astra	TFE731	NONE	768.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Lancair 360	IO360	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Lockheed C-130 Hercules	250B17	NONE	26.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Lockheed C-130 Hercules	501D22	NONE	10.6	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Lockheed L-1329 Jetstar II	AI24VT	NONE	8.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Maule MT-7-235	250B17	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Mitsubishi MU-2	TPE1	NONE	145.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	19.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Mooney M20-K	TSIO36	NONE	194.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Partenavia P.68 Victor	IO360	NONE	33.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	158.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Pilatus PC-12	PT6A67	NONE	2240.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	42.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%



## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Piper PA-24 Comanche	TIO540	NONE	45.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-27 Aztec	TIO540	NONE	300.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	5115.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	303.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-31 Navajo	TIO540	NONE	437.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	155.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	811.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-34 Seneca	IO360	NONE	679.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	22.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Piper PA46-TP Meridian	PT6A42	NONE	746.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Quest Kodiak 100	PT6A34	NONE	171.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech 18	R1820	NONE	31.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech 1900-C	PT6A6B	NONE	80.4	9.4%	90.6%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	202.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	14.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	525.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	634.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	1760.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Hawker 1000	7PW078	NONE	214.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	524.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	4877.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon King Air 100	PT6A28	NONE	185.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon King Air 90	P6135A	NONE	521.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	387.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Starship 2000	PT667A	NONE	3.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	1331.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

## 2017 Total Operations and Stage Length Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Raytheon Super King Air 300	PT660A	NONE	860.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	5.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Robinson R22 Mariner	IO320	NONE	28.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	62.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Rockwell Commander 500	TIO540	NONE	879.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Rockwell Commander 680	TIO540	NONE	26.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Rockwell Commander 690	TPE1	NONE	150.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	175.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Saab 340-A	CT7-5	NONE	125.2	90.5%	9.5%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Schweizer S269D/330	T63A5A	NONE	12.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts 330	PT6A45	NONE	56.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts 360-100 Series	PT6A6A	NONE	634.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts Skyvan SC7-3-1	1AS001	NONE	10.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-64-F	T64100	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-76C	T70070	NONE	1572.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-92	T70041	NONE	7.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky SH-60 Sea Hawk	T70041	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky UH-60 Black Hawk	T70070	NONE	58.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Schweizer S269D/330	T63A5A	NONE	12.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts 330	PT6A45	NONE	56.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts 360-100 Series	PT6A6A	NONE	634.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Shorts Skyvan SC7-3-1	1AS001	NONE	10.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-64-F	T64100	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-76C	T70070	NONE	1572.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky S-92	T70041	NONE	7.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Sikorsky SH-60 Sea Hawk	T70041	NONE	1.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

**2017 Total Operations and Stage Length Percentages**

AEDT Airframe	Engine Code	Engine Mod Code	Total Operations	Departure Stage Length Percentage							Grand Total
				1	2	3	4	5	6	7	
Sikorsky UH-60 Black Hawk	T70070	NONE	58.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
<b>Grand Total</b>			136,360.0								

## **APPENDIX A-2**

# 2017 Operations Time of Day Percentages

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## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
1985 1-ENG COMP	TIO540	NONE	99.0%	1.0%	100.0%	99.0%	1.0%	100.0%			
1985 BUSINESS JET	1AS002	NONE							95.1%	4.9%	100.0%
A-7E Corsair	TF41A2	TF41-A-1							95.1%	4.9%	100.0%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	86.8%	13.2%	100.0%	86.8%	13.2%	100.0%			
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Aerostar PA-60	TIO540	NONE	98.2%	1.8%	100.0%	98.2%	1.8%	100.0%			
Agusta A-109	250B17	NONE	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Agusta A119	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Air Tractor 802	P667AF	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A300F4-600 Series	1GE007	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A320-200 Series	1IA001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A321-200 Series	1CM008	NONE	93.8%	6.2%	100.0%	93.8%	6.2%	100.0%			
Airbus A330-200 Series	2RR022	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A330-300 Series	1PW053	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A340-600 Series	6RR041	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.0%	100.0%	100.0%	0.0%	100.0%	100.0%			
Airbus A380-800 Series/Trent 970	9EA001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Antonov 12 Cub	AI24VT	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
ATR 42-300	PW120	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
ATR 72-200	BIZHEAVYPROP	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
ATR 72-200	PW127G	NONE							95.1%	4.9%	100.0%
ATR 72-600	PW127F	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Aviat Husky A1B	IO360	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
B787-8R	2GE048	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
BAE Jetstream 31	TPE10	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%		
Bell 206 JetRanger	250B17	NONE	85.4%	14.6%	100.0%	85.4%	14.6%	100.0%			
Bell 214B-1	T400	NONE	90.4%	9.6%	100.0%	90.4%	9.6%	100.0%			
Bell 222	TPE1	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bell 427	TPE1	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bell 430	250B17	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%			
Boeing 727-200 Series	1PW009	BFG	86.6%	13.4%	100.0%	86.6%	13.4%	100.0%			
Boeing 737-300 Series	CFM563	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 737-400 Series	CFM563	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 737-500 Series	8GE107	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 737-700 Series	1CM007	NONE	92.2%	7.8%	100.0%	92.2%	7.8%	100.0%			
Boeing 737-900-ER	11CM077	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 747-400 Series	3GE077	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 757-200 Series	1RR012	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 757-200 Series	4PW072	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%			
Boeing 757-300 Series	4PW073	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 767-200 Series	1GE010	NONE	81.1%	18.9%	100.0%	81.1%	18.9%	100.0%			
Boeing 767-300 Series	1GE012	NONE	88.3%	11.7%	100.0%	88.3%	11.7%	100.0%			
Boeing 777-200 Series	7GE097	NONE	84.3%	15.7%	100.0%	84.3%	15.7%	100.0%			
Boeing 777-200-LR	7GE097	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing 787-900 Dreamliner	11GE138	NONE	86.6%	13.4%	100.0%	86.6%	13.4%	100.0%			
Boeing C-17A	F1171	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Boeing CH-46 Sea Knight	T588F	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing DC-10-30 Series	3GE069	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing DC-10-30ER	3GE074	NONE							95.1%	4.9%	100.0%
Boeing DC-3	R1820	R1820-86	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	99.1%	0.9%	100.0%	99.1%	0.9%	100.0%			
Boeing DC-6	R1820	R-2800-CB17	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing DC-8 Series 70	1CM001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing DC-9-10 Series	1PW006	NONE	86.6%	13.4%	100.0%	86.6%	13.4%	100.0%			
Boeing MD-11 Freighter	12PW101	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing MD-11 Freighter	3GE078	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing MD-82	1PW017	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing MD-83	4PW068	NONE	87.0%	13.0%	100.0%	87.0%	13.0%	100.0%			
Boeing MD-88	1PW017	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Boeing MD-90	1IA004	NONE	91.5%	8.5%	100.0%	91.5%	8.5%	100.0%			
Boelkow BO-105	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier Challenger 350	14HN009	NONE	95.2%	4.8%	100.0%	95.2%	4.8%	100.0%			
Bombardier Challenger 604	5GE084	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier Challenger 650	5GE084	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier CRJ-200	5GE084	NONE	95.3%	4.7%	100.0%	95.3%	4.7%	100.0%			
Bombardier CRJ-700	8GE112	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier CRJ-900	6GE092	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Bombardier Global 6000 Business	4BR009	NONE	0.0%	100.0%	100.0%	0.0%	100.0%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Bombardier Global Express	4BR008	NONE	94.0%	6.0%	100.0%	94.0%	6.0%	100.0%			
Bombardier Learjet 25	CJ6106	NONE	89.6%	10.4%	100.0%	89.6%	10.4%	100.0%			
Bombardier Learjet 31	1AS001	NONE	95.3%	4.7%	100.0%	95.3%	4.7%	100.0%			
Bombardier Learjet 35	1AS001	NONE	92.7%	7.3%	100.0%	92.7%	7.3%	100.0%	95.1%	4.9%	100.0%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	97.4%	2.6%	100.0%	97.4%	2.6%	100.0%			
Bombardier Learjet 55	1AS002	NONE	94.7%	5.3%	100.0%	94.7%	5.3%	100.0%			
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	96.0%	4.0%	100.0%	96.0%	4.0%	100.0%			
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	94.2%	5.8%	100.0%	94.2%	5.8%	100.0%			
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	96.6%	3.4%	100.0%	96.6%	3.4%	100.0%			
Britten-Norman BN-2 Islander	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
CASA 212-100 Series	PT6A28	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
CASA CN-235-100	CT7-5	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%
Cessna 150 Series	O200	NONE	95.8%	4.2%	100.0%	95.8%	4.2%	100.0%	95.1%	4.9%	100.0%
Cessna 172 Skyhawk	IO320	NONE	97.8%	2.2%	100.0%	97.8%	2.2%	100.0%	95.1%	4.9%	100.0%
Cessna 182	IO360	NONE	94.3%	5.7%	100.0%	94.3%	5.7%	100.0%			
Cessna 206	TIO540	IO-540-AC	99.1%	0.9%	100.0%	99.1%	0.9%	100.0%			
Cessna 208 Caravan	PT6A14	NONE	99.2%	0.8%	100.0%	99.2%	0.8%	100.0%	95.1%	4.9%	100.0%
Cessna 210 Centurion	TIO540	NONE	98.0%	2.0%	100.0%	98.0%	2.0%	100.0%			
Cessna 310	TIO540	NONE	99.6%	0.4%	100.0%	99.6%	0.4%	100.0%			
Cessna 337 Skymaster	IO360	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Cessna 340	TIO540	NONE	97.6%	2.4%	100.0%	97.6%	2.4%	100.0%			
Cessna 402	TIO540	NONE	98.2%	1.8%	100.0%	98.2%	1.8%	100.0%	95.1%	4.9%	100.0%
Cessna 404 Titan II	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			



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AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Cessna 414	TIO540	NONE	96.7%	3.3%	100.0%	96.7%	3.3%	100.0%			
Cessna 421 Golden Eagle	TIO540	NONE	99.1%	0.9%	100.0%	99.1%	0.9%	100.0%			
Cessna 425 Conquest I	PT6112	NONE	98.3%	1.7%	100.0%	98.3%	1.7%	100.0%			
Cessna 441 Conquest II	TPE10	NONE	99.1%	0.9%	100.0%	99.1%	0.9%	100.0%			
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	98.5%	1.5%	100.0%	98.5%	1.5%	100.0%			
Cessna 501 Citation ISP	1PW035	NONE	96.5%	3.5%	100.0%	96.5%	3.5%	100.0%			
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	97.8%	2.2%	100.0%	97.8%	2.2%	100.0%			
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	97.4%	2.6%	100.0%	97.4%	2.6%	100.0%			
Cessna 525C CitationJet	BIZLIGHTJET	NONE	96.5%	3.5%	100.0%	96.5%	3.5%	100.0%			
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	94.7%	5.3%	100.0%	94.7%	5.3%	100.0%			
Cessna 551 Citation IISP	1PW036	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Cessna 560 Citation Excel	1PW037	NONE	97.0%	3.0%	100.0%	97.0%	3.0%	100.0%			
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Cessna 650 Citation III	TFE731	NONE	97.4%	2.6%	100.0%	97.4%	2.6%	100.0%			
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	98.2%	1.8%	100.0%	98.2%	1.8%	100.0%			
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	94.3%	5.7%	100.0%	94.3%	5.7%	100.0%			
Cessna 750 Citation X	4AL003	NONE	96.3%	3.7%	100.0%	96.3%	3.7%	100.0%			
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	98.9%	1.1%	100.0%	98.9%	1.1%	100.0%			
Cirrus SR20	IO360	NONE	98.6%	1.4%	100.0%	98.6%	1.4%	100.0%			
Cirrus SR22	TIO540	NONE	93.9%	6.1%	100.0%	93.9%	6.1%	100.0%	95.1%	4.9%	100.0%
Convair CV-240/T-29	R1820	NONE	99.6%	0.4%	100.0%	99.6%	0.4%	100.0%			
Convair CV-580	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Dassault Falcon 10	1AS001	NONE	83.2%	16.8%	100.0%	83.2%	16.8%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Dassault Falcon 2000	CF700D	NONE	96.6%	3.4%	100.0%	96.6%	3.4%	100.0%			
Dassault Falcon 20-C	CF700D	NONE	94.7%	5.3%	100.0%	94.7%	5.3%	100.0%			
Dassault Falcon 50	TFE731	NONE	94.4%	5.6%	100.0%	94.4%	5.6%	100.0%			
Dassault Falcon 900	TFE731	NONE	95.2%	4.8%	100.0%	95.2%	4.8%	100.0%			
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	95.3%	4.7%	100.0%	95.3%	4.7%	100.0%			
Dornier 328 Jet	1TL004	NONE	51.8%	48.2%	100.0%	51.8%	48.2%	100.0%			
Dornier 328 Jet	7PW078	NONE	86.6%	13.4%	100.0%	86.6%	13.4%	100.0%			
Dornier 328-100 Series	PW119B	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
EADS Socata TB-10 Tobago	IO360	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
EADS Socata TB-20 Trinidad	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
EADS Socata TBM-700	PT6A64	NONE	98.2%	1.8%	100.0%	98.2%	1.8%	100.0%			
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	98.7%	1.3%	100.0%	98.7%	1.3%	100.0%			
Embraer 500	BIZLIGHTJET_F	NONE	98.5%	1.5%	100.0%	98.5%	1.5%	100.0%			
Embraer 505	BIZLIGHTJET_F	NONE	97.2%	2.8%	100.0%	97.2%	2.8%	100.0%			
Embraer EMB110 Bandeirante	PT6A27	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Embraer EMB120 Brasilia	PW118	NONE	93.8%	6.2%	100.0%	93.8%	6.2%	100.0%			
Embraer ERJ135	6AL012	NONE	93.0%	7.0%	100.0%	93.0%	7.0%	100.0%			
Embraer ERJ145	4AL003	NONE	95.3%	4.7%	100.0%	95.3%	4.7%	100.0%			
Embraer ERJ170	8GE107	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Embraer ERJ190	8GE115	NONE	93.8%	6.2%	100.0%	93.8%	6.2%	100.0%			
Embraer Legacy 450 (EMB-545)	14HN007	NONE	90.3%	9.7%	100.0%	90.3%	9.7%	100.0%			
Embraer Legacy 500 (EMB-550)	14HN008	NONE	90.8%	9.2%	100.0%	90.8%	9.2%	100.0%			
EPIC Victory	BIZVERYLIGHTJET_F	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Eurocopter EC 120	PT6A27	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Eurocopter EC-130	TPE3	NONE	76.3%	23.7%	100.0%	76.3%	23.7%	100.0%			
Eurocopter EC-155B1	T400	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%			
Extra EA-500	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Fairchild SA-227-AC Metro III	TPE10	NONE	74.5%	25.5%	100.0%	74.5%	25.5%	100.0%			
Falcon 7X	8PW091	NONE	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Fokker F27-100 Series	DART14	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	96.0%	4.0%	100.0%	96.0%	4.0%	100.0%			
Gulfstream G150	BIZMEDIUMJET_F	NONE	98.6%	1.4%	100.0%	98.6%	1.4%	100.0%			
Gulfstream G200	7PW077	NONE	95.9%	4.1%	100.0%	95.9%	4.1%	100.0%			
Gulfstream G280	11HN005	NONE	97.0%	3.0%	100.0%	97.0%	3.0%	100.0%			
Gulfstream G450	6RR042	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Gulfstream G500	3BR001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Gulfstream G550	3BR001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Gulfstream I	DART52	NONE	91.5%	8.5%	100.0%	91.5%	8.5%	100.0%			
Gulfstream II-B	1RR016	NONE	92.2%	7.8%	100.0%	92.2%	7.8%	100.0%			
Gulfstream IV-SP	6RR042	NONE	93.6%	6.4%	100.0%	93.6%	6.4%	100.0%			
Gulfstream V-SP	3BR001	NONE	95.2%	4.8%	100.0%	95.2%	4.8%	100.0%			
Hawker 900XP	BIZMEDIUMJET_F	NONE	97.0%	3.0%	100.0%	97.0%	3.0%	100.0%			
Hawker HS-125 Series 400	1RR019	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	94.2%	5.8%	100.0%	94.2%	5.8%	100.0%			
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Israel IAI-1124 Westwind I	CJ6106	NONE	97.8%	2.2%	100.0%	97.8%	2.2%	100.0%			
Israel IAI-1125 Astra	TFE731	NONE	96.8%	3.2%	100.0%	96.8%	3.2%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Lancair 360	IO360	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Lockheed C-130 Hercules	250B17	NONE							95.1%	4.9%	100.0%
Lockheed C-130 Hercules	501D22	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Lockheed L-1329 Jetstar II	AI24VT	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Maule MT-7-235	250B17	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Mitsubishi MU-2	TPE1	NONE	94.4%	5.6%	100.0%	94.4%	5.6%	100.0%			
Mitsubishi MU-300 Diamond	1PW036	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Mooney M20-K	TSIO36	NONE	97.9%	2.1%	100.0%	97.9%	2.1%	100.0%			
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Partenavia P.68 Victor	IO360	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Piaggio P.180 Avanti	PT6A60	NONE	96.9%	3.1%	100.0%	96.9%	3.1%	100.0%			
Pilatus PC-12	PT6A67	NONE	98.3%	1.7%	100.0%	98.3%	1.7%	100.0%			
Piper PA-23 Apache/Aztec	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Piper PA-24 Comanche	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Piper PA-27 Aztec	TIO540	NONE	99.2%	0.8%	100.0%	99.2%	0.8%	100.0%			
Piper PA-28 Cherokee Series	IO320	O-320-D3G	95.6%	4.4%	100.0%	95.6%	4.4%	100.0%	95.1%	4.9%	100.0%
Piper PA-30 Twin Comanche	IO320	NONE	98.1%	1.9%	100.0%	98.1%	1.9%	100.0%			
Piper PA-31 Navajo	TIO540	NONE	98.7%	1.3%	100.0%	98.7%	1.3%	100.0%			
Piper PA-31T Cheyenne	PT6A11	NONE	98.9%	1.1%	100.0%	98.9%	1.1%	100.0%			
Piper PA-32 Cherokee Six	TIO540	NONE	98.2%	1.8%	100.0%	98.2%	1.8%	100.0%			
Piper PA-34 Seneca	IO360	NONE	98.7%	1.3%	100.0%	98.7%	1.3%	100.0%			
Piper PA-42 Cheyenne Series	PT6A11	NONE	96.3%	3.7%	100.0%	96.3%	3.7%	100.0%			
Piper PA46-TP Meridian	PT6A42	NONE	97.4%	2.6%	100.0%	97.4%	2.6%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Quest Kodiak 100	PT6A34	NONE	98.6%	1.4%	100.0%	98.6%	1.4%	100.0%			
Raytheon Beech 18	R1820	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Raytheon Beech 1900-C	PT6A6B	NONE	43.9%	56.1%	100.0%	43.9%	56.1%	100.0%			
Raytheon Beech 55 Baron	TIO540	TS10-520-L	98.4%	1.6%	100.0%	98.4%	1.6%	100.0%			
Raytheon Beech 60 Duke	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Raytheon Beech Baron 58	TIO540	NONE	99.4%	0.6%	100.0%	99.4%	0.6%	100.0%			
Raytheon Beech Bonanza 36	TIO540	NONE	98.1%	1.9%	100.0%	98.1%	1.9%	100.0%			
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	97.3%	2.7%	100.0%	97.3%	2.7%	100.0%			
Raytheon Hawker 1000	7PW078	NONE	92.0%	8.0%	100.0%	92.0%	8.0%	100.0%			
Raytheon Hawker 4000 Horizon	7PW079	NONE	97.5%	2.5%	100.0%	97.5%	2.5%	100.0%			
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	95.4%	4.6%	100.0%	95.4%	4.6%	100.0%	95.1%	4.9%	100.0%
Raytheon King Air 100	PT6A28	NONE	97.7%	2.3%	100.0%	97.7%	2.3%	100.0%			
Raytheon King Air 90	P6135A	NONE	98.1%	1.9%	100.0%	98.1%	1.9%	100.0%			
Raytheon Premier I	BIZLIGHTJET_F	NONE	96.4%	3.6%	100.0%	96.4%	3.6%	100.0%			
Raytheon Starship 2000	PT667A	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Raytheon Super King Air 200	PT6A40	NONE	96.7%	3.3%	100.0%	96.7%	3.3%	100.0%	95.1%	4.9%	100.0%
Raytheon Super King Air 300	PT660A	NONE	98.4%	1.6%	100.0%	98.4%	1.6%	100.0%			
Reims-Cessna 406 Caravan II	PT6112	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Robinson R22 Mariner	IO320	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	98.7%	1.3%	100.0%	98.7%	1.3%	100.0%			
Rockwell Commander 500	TIO540	NONE	18.4%	81.6%	100.0%	18.4%	81.6%	100.0%			
Rockwell Commander 680	TIO540	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Rockwell Commander 690	TPE1	NONE	98.4%	1.6%	100.0%	98.4%	1.6%	100.0%			
Rockwell Sabreliner 65	1AS002	NONE	96.7%	3.3%	100.0%	96.7%	3.3%	100.0%			

## 2017 Operations Time of Day Percentages

AEDT Airframe	Engine Code	Engine Mod Code	Arrival			Departure			Touch and Go		
			% Day	% Night	Total	% Day	% Night	Total	% Day	% Night	Total
Saab 340-A	CT7-5	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Schweizer S269D/330	T63A5A	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Shorts 330	PT6A45	NONE	96.9%	3.1%	100.0%	96.9%	3.1%	100.0%			
Shorts 360-100 Series	PT6A6A	NONE	99.7%	0.3%	100.0%	99.7%	0.3%	100.0%			
Shorts Skyvan SC7-3-1	1AS001	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Sikorsky S-64-F	T64100	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Sikorsky S-76C	T70070	NONE	84.5%	15.5%	100.0%	84.5%	15.5%	100.0%			
Sikorsky S-92	T70041	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Sikorsky SH-60 Sea Hawk	T70041	NONE	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%			
Sikorsky UH-60 Black Hawk	T70070	NONE	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%			
Grand Total			95.1%	4.9%	100.0%	95.1%	4.9%	100.0%	95.1%	4.9%	100.0%

Note: Aircraft types with no touch-and-go operations have blank values in the Touch and Go category.



## **APPENDIX A-3**

# 2017 Day Departure Runway Use Percentages

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## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
1985 1-ENG COMP	TIO540	NONE	62.1%	16.0%	4.4%	0.0%	14.6%	2.9%	0.0%	100.0%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerostar PA-60	TIO540	NONE	46.2%	38.5%	0.0%	0.0%	0.0%	15.4%	0.0%	100.0%
Agusta A-109	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Agusta A119	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Air Tractor 802	P667AF	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Airbus A300F4-600 Series	1GE007	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Airbus A320-200 Series	1A001	NONE	75.0%	12.5%	0.0%	0.0%	3.1%	9.4%	0.0%	100.0%
Airbus A321-200 Series	1CM008	NONE	70.0%	10.0%	0.0%	0.0%	10.0%	10.0%	0.0%	100.0%
Airbus A330-200 Series	2RR022	NONE	33.3%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	100.0%
Airbus A330-300 Series	1PW053	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Airbus A340-600 Series	6RR041	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A380-800 Series/Trent 970	9EA001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Antonov 12 Cub	AI24VT	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
ATR 42-300	PW120	NONE	70.7%	19.0%	0.0%	0.0%	9.2%	1.1%	0.0%	100.0%
ATR 72-200	BIZHEAVYPROP	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
ATR 72-600	PW127F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Aviat Husky A1B	IO360	NONE	0.0%	0.0%	25.0%	0.0%	50.0%	25.0%	0.0%	100.0%
B787-8R	2GE048	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
BAE Jetstream 31	TPE10	NONE	55.6%	11.1%	0.0%	0.0%	22.2%	11.1%	0.0%	100.0%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Bell 206 JetRanger	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 214B-1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 222	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 427	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 430	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing 727-200 Series	1PW009	BFG	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Boeing 737-300 Series	CFM563	NONE	80.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	100.0%
Boeing 737-400 Series	CFM563	NONE	66.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Boeing 737-500 Series	8GE107	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 737-700 Series	1CM007	NONE	76.5%	19.6%	0.0%	0.0%	2.0%	2.0%	0.0%	100.0%
Boeing 737-900-ER	11CM077	NONE	64.3%	14.3%	0.0%	0.0%	7.1%	14.3%	0.0%	100.0%
Boeing 747-400 Series	3GE077	NONE	75.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 757-200 Series	1RR012	NONE	60.0%	0.0%	0.0%	0.0%	40.0%	0.0%	0.0%	100.0%
Boeing 757-200 Series	4PW072	NONE	40.0%	20.0%	0.0%	0.0%	20.0%	20.0%	0.0%	100.0%
Boeing 757-300 Series	4PW073	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 767-200 Series	1GE010	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 767-300 Series	1GE012	NONE	75.0%	12.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Boeing 777-200 Series	7GE097	NONE	75.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	100.0%
Boeing 777-200-LR	7GE097	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 787-900 Dreamliner	11GE138	NONE	33.3%	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Boeing C-17A	F1171	NONE	76.5%	19.6%	0.0%	0.0%	2.0%	2.0%	0.0%	100.0%
Boeing CH-46 Sea Knight	T588F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing DC-10-30 Series	3GE069	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-3	R1820	R1820-86	47.1%	5.9%	0.0%	0.0%	26.5%	20.6%	0.0%	100.0%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	75.5%	18.3%	1.2%	0.3%	3.7%	0.9%	0.0%	100.0%
Boeing DC-6	R1820	R-2800-CB17	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-8 Series 70	1CM001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-9-10 Series	1PW006	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing MD-11 Freighter	12PW101	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-11 Freighter	3GE078	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-82	1PW017	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-83	4PW068	NONE	75.0%	16.7%	0.0%	0.0%	0.0%	8.3%	0.0%	100.0%
Boeing MD-88	1PW017	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-90	1A004	NONE	66.7%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	100.0%
Boelkew BO-105	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bombardier Challenger 350	14HN009	NONE	69.4%	22.4%	0.0%	0.0%	0.0%	8.2%	0.0%	100.0%
Bombardier Challenger 604	5GE084	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Bombardier Challenger 650	5GE084	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier CRJ-200	5GE084	NONE	73.4%	15.6%	0.0%	0.0%	3.1%	7.8%	0.0%	100.0%
Bombardier CRJ-700	8GE112	NONE	66.7%	26.7%	0.0%	0.0%	6.7%	0.0%	0.0%	100.0%
Bombardier CRJ-900	6GE092	NONE	80.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Global 6000 Business	4BR009	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Global Express	4BR008	NONE	72.8%	14.0%	0.0%	0.0%	4.3%	8.9%	0.0%	100.0%
Bombardier Learjet 25	CJ6106	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Learjet 31	1AS001	NONE	68.5%	17.6%	0.0%	0.0%	6.5%	7.4%	0.0%	100.0%
Bombardier Learjet 35	1AS001	NONE	71.3%	10.9%	1.2%	0.0%	8.1%	8.5%	0.0%	100.0%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	73.9%	9.9%	0.0%	0.0%	3.6%	12.6%	0.0%	100.0%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	73.2%	12.8%	0.2%	0.0%	5.6%	8.2%	0.0%	100.0%
Bombardier Learjet 55	1AS002	NONE	73.0%	16.9%	0.5%	0.0%	4.0%	5.6%	0.0%	100.0%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	73.5%	15.8%	0.1%	0.0%	5.7%	4.8%	0.0%	100.0%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	66.7%	16.7%	0.0%	0.0%	0.0%	16.7%	0.0%	100.0%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	63.9%	30.6%	0.0%	0.0%	2.8%	2.8%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Britten-Norman BN-2 Islander	TIO540	NONE	75.0%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
CASA 212-100 Series	PT6A28	NONE	80.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	100.0%
CASA CN-235-100	CT7-5	NONE	66.2%	1.7%	0.7%	0.0%	12.6%	18.8%	0.0%	100.0%
Cessna 150 Series	O200	NONE	68.3%	4.8%	11.1%	0.0%	9.5%	6.3%	0.0%	100.0%
Cessna 172 Skyhawk	IO320	NONE	62.4%	11.0%	4.5%	1.4%	16.2%	4.4%	0.0%	100.0%
Cessna 182	IO360	NONE	34.3%	14.9%	3.3%	6.9%	16.8%	23.8%	0.0%	100.0%
Cessna 206	TIO540	IO-540-AC	57.1%	12.4%	4.8%	0.0%	22.9%	2.9%	0.0%	100.0%
Cessna 208 Caravan	PT6A14	NONE	58.6%	10.9%	2.9%	1.7%	18.0%	7.9%	0.0%	100.0%
Cessna 210 Centurion	TIO540	NONE	55.2%	14.9%	1.5%	1.5%	13.4%	13.4%	0.0%	100.0%
Cessna 310	TIO540	NONE	62.5%	22.5%	5.0%	0.0%	7.5%	2.5%	0.0%	100.0%
Cessna 337 Skymaster	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cessna 340	TIO540	NONE	62.1%	20.7%	0.0%	0.0%	17.2%	0.0%	0.0%	100.0%
Cessna 402	TIO540	NONE	64.3%	19.0%	1.3%	0.4%	12.3%	2.7%	0.0%	100.0%
Cessna 404 Titan II	TIO540	NONE	73.3%	13.3%	0.0%	0.0%	13.3%	0.0%	0.0%	100.0%
Cessna 414	TIO540	NONE	65.2%	17.9%	0.9%	1.8%	6.3%	8.0%	0.0%	100.0%
Cessna 421 Golden Eagle	TIO540	NONE	71.6%	4.1%	0.0%	1.4%	10.8%	12.2%	0.0%	100.0%
Cessna 425 Conquest I	PT6112	NONE	68.0%	16.0%	0.0%	0.0%	8.0%	8.0%	0.0%	100.0%
Cessna 441 Conquest II	TPE10	NONE	76.9%	3.8%	0.0%	0.0%	15.4%	3.8%	0.0%	100.0%
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	67.6%	5.9%	0.0%	0.0%	5.9%	20.6%	0.0%	100.0%
Cessna 501 Citation ISP	1PW035	NONE	80.0%	0.0%	0.0%	0.0%	8.6%	11.4%	0.0%	100.0%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	69.9%	10.7%	0.0%	0.3%	8.6%	10.4%	0.0%	100.0%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	73.1%	15.4%	0.0%	0.0%	4.0%	7.5%	0.0%	100.0%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	72.6%	14.0%	0.0%	0.0%	7.0%	6.5%	0.0%	100.0%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	69.7%	19.2%	0.0%	0.0%	8.1%	3.0%	0.0%	100.0%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	68.0%	9.5%	0.0%	0.0%	11.8%	10.7%	0.0%	100.0%
Cessna 551 Citation IISP	1PW036	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 560 Citation Excel	1PW037	NONE	70.5%	15.1%	0.0%	0.0%	6.5%	7.9%	0.0%	100.0%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	70.9%	12.3%	0.2%	0.1%	7.0%	9.4%	0.0%	100.0%
Cessna 650 Citation III	TFE731	NONE	75.9%	13.8%	0.0%	0.0%	4.6%	5.6%	0.0%	100.0%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	67.6%	21.4%	0.0%	0.0%	6.1%	4.9%	0.0%	100.0%
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	76.5%	17.6%	0.0%	0.0%	0.0%	5.9%	0.0%	100.0%
Cessna 750 Citation X	4AL003	NONE	70.8%	16.5%	0.2%	0.0%	5.6%	7.0%	0.0%	100.0%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	66.7%	7.4%	0.0%	0.9%	10.2%	14.8%	0.0%	100.0%
Cirrus SR20	IO360	NONE	58.0%	5.7%	2.3%	1.1%	13.6%	19.3%	0.0%	100.0%
Cirrus SR22	TIO540	NONE	65.9%	7.1%	2.7%	2.1%	13.9%	8.2%	0.0%	100.0%
Convair CV-240/T-29	R1820	NONE	69.4%	22.9%	0.0%	0.2%	5.1%	2.4%	0.0%	100.0%
Convair CV-580	250B17	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Dassault Falcon 10	1AS001	NONE	76.5%	8.8%	2.9%	0.0%	8.8%	2.9%	0.0%	100.0%
Dassault Falcon 2000	CF700D	NONE	71.6%	15.9%	0.0%	0.0%	5.6%	6.8%	0.0%	100.0%
Dassault Falcon 20-C	CF700D	NONE	67.8%	23.0%	0.0%	0.0%	3.4%	5.7%	0.0%	100.0%
Dassault Falcon 50	TFE731	NONE	75.8%	15.7%	0.0%	0.0%	5.6%	2.8%	0.0%	100.0%
Dassault Falcon 900	TFE731	NONE	72.8%	12.3%	0.6%	0.0%	6.0%	8.3%	0.0%	100.0%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	100.0%
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	36.4%	36.4%	9.1%	0.0%	18.2%	0.0%	0.0%	100.0%
Dornier 328 Jet	1TL004	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	7PW078	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328-100 Series	PW119B	NONE	25.0%	50.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
EADS Socata TB-10 Tobago	IO360	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
EADS Socata TB-20 Trinidad	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
EADS Socata TBM-700	PT6A64	NONE	66.1%	13.2%	0.0%	0.8%	6.6%	13.2%	0.0%	100.0%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	65.4%	6.4%	1.3%	0.0%	8.3%	18.6%	0.0%	100.0%
Embraer 500	BIZLIGHTJET_F	NONE	69.4%	12.0%	0.0%	0.9%	7.4%	10.2%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Embraer 505	BIZLIGHTJET_F	NONE	66.8%	12.8%	0.0%	0.0%	8.8%	11.8%	0.0%	100.0%
Embraer EMB110 Bandeirante	PT6A27	NONE	25.0%	50.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
Embraer EMB120 Brasilia	PW118	NONE	25.0%	50.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
Embraer ERJ135	6AL012	NONE	75.7%	10.1%	0.0%	0.0%	6.8%	7.4%	0.0%	100.0%
Embraer ERJ145	4AL003	NONE	59.5%	31.0%	0.0%	0.0%	7.1%	2.4%	0.0%	100.0%
Embraer ERJ170	8GE107	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Embraer ERJ190	8GE115	NONE	42.9%	28.6%	0.0%	0.0%	14.3%	14.3%	0.0%	100.0%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	71.4%	14.3%	0.0%	0.0%	14.3%	0.0%	0.0%	100.0%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	81.3%	6.3%	6.3%	0.0%	6.3%	0.0%	0.0%	100.0%
EPIC Victory	BIZVERYLIGHTJET_F	NONE	66.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Eurocopter EC 120	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-130	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-155B1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Extra EA-500	250B17	NONE	66.1%	13.2%	0.0%	0.8%	6.6%	13.2%	0.0%	100.0%
Fairchild SA-227-AC Metro III	TPE10	NONE	71.9%	14.1%	0.0%	0.0%	10.9%	3.1%	0.0%	100.0%
Falcon 7X	8PW091	NONE	73.2%	16.9%	0.0%	0.0%	2.8%	7.0%	0.0%	100.0%
Fokker F27-100 Series	DART14	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	64.5%	25.8%	0.0%	0.0%	6.5%	3.2%	0.0%	100.0%
Gulfstream G150	BIZMEDIUMJET_F	NONE	76.1%	8.7%	0.0%	0.0%	7.6%	7.6%	0.0%	100.0%
Gulfstream G200	7PW077	NONE	71.8%	11.8%	0.3%	0.0%	6.0%	10.1%	0.0%	100.0%
Gulfstream G280	11HN005	NONE	63.9%	30.6%	0.0%	0.0%	2.8%	2.8%	0.0%	100.0%
Gulfstream G450	6RR042	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Gulfstream G500	3BR001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Gulfstream G550	3BR001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream I	DART52	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream II-B	1RR016	NONE	57.1%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Gulfstream IV-SP	6RR042	NONE	70.8%	15.2%	0.1%	0.0%	6.1%	7.8%	0.0%	100.0%
Gulfstream V-SP	3BR001	NONE	70.9%	15.0%	0.2%	0.0%	4.0%	9.9%	0.0%	100.0%
Hawker 900XP	BIZMEDIUMJET_F	NONE	76.2%	17.9%	0.0%	0.0%	4.6%	1.3%	0.0%	100.0%
Hawker HS-125 Series 400	1RR019	NONE	83.3%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	67.6%	16.2%	2.7%	0.0%	13.5%	0.0%	0.0%	100.0%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Israel IAI-1124 Westwind I	CJ6106	NONE	75.4%	12.3%	0.6%	0.0%	2.8%	8.9%	0.0%	100.0%
Israel IAI-1125 Astra	TFE731	NONE	73.2%	13.9%	0.0%	0.0%	3.8%	9.1%	0.0%	100.0%
Lancair 360	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Lockheed C-130 Hercules	501D22	NONE	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	100.0%
Lockheed L-1329 Jetstar II	AI24VT	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Maule MT-7-235	250B17	NONE	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Mitsubishi MU-2	TPE1	NONE	68.2%	20.5%	0.0%	0.0%	9.1%	2.3%	0.0%	100.0%
Mitsubishi MU-300 Diamond	1PW036	NONE	80.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	100.0%
Mooney M20-K	TSIO36	NONE	70.5%	15.9%	0.0%	2.3%	6.8%	4.5%	0.0%	100.0%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	63.6%	7.3%	1.0%	0.3%	13.0%	14.8%	0.0%	100.0%
Partenavia P.68 Victor	IO360	NONE	66.7%	16.7%	0.0%	0.0%	16.7%	0.0%	0.0%	100.0%
Piaggio P.180 Avanti	PT6A60	NONE	78.0%	12.2%	0.0%	0.0%	7.3%	2.4%	0.0%	100.0%
Pilatus PC-12	PT6A67	NONE	63.6%	7.3%	1.0%	0.3%	13.0%	14.8%	0.0%	100.0%
Piper PA-23 Apache/Aztec	TIO540	NONE	64.3%	0.0%	7.1%	0.0%	21.4%	7.1%	0.0%	100.0%
Piper PA-24 Comanche	TIO540	NONE	91.7%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Piper PA-27 Aztec	TIO540	NONE	56.0%	9.5%	2.4%	1.2%	15.5%	15.5%	0.0%	100.0%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	60.7%	8.5%	9.7%	1.6%	15.4%	4.0%	0.0%	100.0%
Piper PA-30 Twin Comanche	IO320	NONE	56.7%	13.3%	8.3%	5.0%	11.7%	5.0%	0.0%	100.0%
Piper PA-31 Navajo	TIO540	NONE	56.2%	24.8%	1.7%	0.0%	13.2%	4.1%	0.0%	100.0%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Piper PA-31T Cheyenne	PT6A11	NONE	70.7%	12.2%	0.0%	0.0%	4.9%	12.2%	0.0%	100.0%
Piper PA-32 Cherokee Six	TIO540	NONE	63.4%	14.9%	1.0%	0.5%	15.8%	4.5%	0.0%	100.0%
Piper PA-34 Seneca	IO360	NONE	55.7%	19.2%	3.0%	3.6%	15.6%	3.0%	0.0%	100.0%
Piper PA-42 Cheyenne Series	PT6A11	NONE	80.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	100.0%
Piper PA46-TP Meridian	PT6A42	NONE	59.7%	12.0%	3.7%	0.5%	13.6%	10.5%	0.0%	100.0%
Quest Kodiak 100	PT6A34	NONE	70.4%	0.0%	3.7%	3.7%	18.5%	3.7%	0.0%	100.0%
Raytheon Beech 18	R1820	NONE	50.0%	0.0%	8.3%	8.3%	33.3%	0.0%	0.0%	100.0%
Raytheon Beech 1900-C	PT6A6B	NONE	85.7%	7.1%	7.1%	0.0%	0.0%	0.0%	0.0%	100.0%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	63.8%	21.3%	0.0%	0.0%	14.9%	0.0%	0.0%	100.0%
Raytheon Beech 60 Duke	TIO540	NONE	33.3%	0.0%	0.0%	16.7%	0.0%	50.0%	0.0%	100.0%
Raytheon Beech Baron 58	TIO540	NONE	59.7%	21.5%	0.0%	0.7%	14.8%	3.4%	0.0%	100.0%
Raytheon Beech Bonanza 36	TIO540	NONE	65.9%	15.3%	1.7%	0.0%	14.8%	2.3%	0.0%	100.0%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	72.8%	13.7%	0.2%	0.0%	5.5%	7.8%	0.0%	100.0%
Raytheon Hawker 1000	7PW078	NONE	67.8%	16.9%	0.0%	0.0%	5.1%	10.2%	0.0%	100.0%
Raytheon Hawker 4000 Horizon	7PW079	NONE	76.4%	15.3%	0.0%	0.0%	2.8%	5.6%	0.0%	100.0%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	72.1%	17.4%	0.2%	0.0%	5.5%	4.7%	0.0%	100.0%
Raytheon King Air 100	PT6A28	NONE	69.0%	14.3%	0.0%	0.0%	9.5%	7.1%	0.0%	100.0%
Raytheon King Air 90	P6135A	NONE	71.1%	16.1%	0.0%	0.0%	8.1%	4.7%	0.0%	100.0%
Raytheon Premier I	BIZLIGHTJET_F	NONE	59.4%	14.2%	0.0%	0.0%	6.6%	19.8%	0.0%	100.0%
Raytheon Starship 2000	PT667A	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Super King Air 200	PT6A40	NONE	69.6%	14.0%	0.8%	0.4%	7.0%	8.2%	0.0%	100.0%
Raytheon Super King Air 300	PT660A	NONE	70.5%	7.2%	0.8%	0.0%	9.7%	11.8%	0.0%	100.0%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Robinson R22 Mariner	IO320	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Rockwell Commander 500	TIO540	NONE	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	100.0%



## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Rockwell Commander 680	TIO540	NONE	57.1%	28.6%	0.0%	0.0%	0.0%	14.3%	0.0%	100.0%
Rockwell Commander 690	TPE1	NONE	68.9%	8.9%	4.4%	0.0%	13.3%	4.4%	0.0%	100.0%
Rockwell Sabreliner 65	1AS002	NONE	82.2%	0.0%	0.0%	0.0%	4.4%	13.3%	0.0%	100.0%
Saab 340-A	CT7-5	NONE	85.7%	4.8%	0.0%	0.0%	9.5%	0.0%	0.0%	100.0%
Schweizer S269D/330	T63A5A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Shorts 330	PT6A45	NONE	33.3%	0.0%	0.0%	0.0%	33.3%	33.3%	0.0%	100.0%
Shorts 360-100 Series	PT6A6A	NONE	70.7%	19.0%	0.0%	0.0%	9.2%	1.1%	0.0%	100.0%
Shorts Skyvan SC7-3-1	1AS001	NONE	75.0%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
Sikorsky S-64-F	T64100	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-76C	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-92	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky SH-60 Sea Hawk	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky UH-60 Black Hawk	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
<b>Grand Total</b>			<b>58.9%</b>	<b>11.9%</b>	<b>1.0%</b>	<b>0.4%</b>	<b>7.5%</b>	<b>6.5%</b>	<b>13.7%</b>	<b>100.0%</b>

Note: Aircraft with a total of 0% means there were no daytime departures recorded in 2017.

## **APPENDIX A-4**

# 2017 Night Departure Runway Use Percentages

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## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
1985 1-ENG COMP	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aerostar PA-60	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Agusta A-109	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Agusta A119	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Air Tractor 802	P667AF	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A300F4-600 Series	1GE007	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A320-200 Series	1IA001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A321-200 Series	1CM008	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Airbus A330-200 Series	2RR022	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A330-300 Series	1PW053	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A340-600 Series	6RR041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Airbus A380-800 Series/Trent 970	9EA001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Antonov 12 Cub	AI24VT	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 42-300	PW120	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 72-200	BIZHEAVYPROP	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 72-600	PW127F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aviat Husky A1B	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
B787-8R	2GE048	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BAE Jetstream 31	TPE10	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 206 JetRanger	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 214B-1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 222	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 427	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 430	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing 727-200 Series	1PW009	BFG	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 737-300 Series	CFM563	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-400 Series	CFM563	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-500 Series	8GE107	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-700 Series	1CM007	NONE	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Boeing 737-900-ER	11CM077	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 747-400 Series	3GE077	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 757-200 Series	1RR012	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 757-200 Series	4PW072	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 757-300 Series	4PW073	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 767-200 Series	1GE010	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 767-300 Series	1GE012	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Boeing 777-200 Series	7GE097	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Boeing 777-200-LR	7GE097	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 787-900 Dreamliner	11GE138	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Boeing C-17A	F1171	NONE	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Boeing CH-46 Sea Knight	T588F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-10-30 Series	3GE069	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-3	R1820	R1820-86	0.0%	0.0%	0.0%	0.0%	80.0%	20.0%	0.0%	100.0%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.0%	0.0%	9.1%	0.0%	90.9%	0.0%	0.0%	100.0%
Boeing DC-6	R1820	R-2800-CB17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-8 Series 70	1CM001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-9-10 Series	1PW006	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing MD-11 Freighter	12PW101	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-11 Freighter	3GE078	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-82	1PW017	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-83	4PW068	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing MD-88	1PW017	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-90	1A004	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boelkew BO-105	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Challenger 350	14HN009	NONE	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	100.0%
Bombardier Challenger 604	5GE084	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Challenger 650	5GE084	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier CRJ-200	5GE084	NONE	0.0%	20.0%	0.0%	0.0%	60.0%	20.0%	0.0%	100.0%
Bombardier CRJ-700	8GE112	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier CRJ-900	6GE092	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Global 6000 Business	4BR009	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Bombardier Global Express	4BR008	NONE	13.2%	1.9%	0.0%	0.0%	60.4%	24.5%	0.0%	100.0%
Bombardier Learjet 25	CJ6106	NONE	6.7%	0.0%	0.0%	0.0%	66.7%	26.7%	0.0%	100.0%
Bombardier Learjet 31	1AS001	NONE	6.7%	0.0%	0.0%	0.0%	66.7%	26.7%	0.0%	100.0%
Bombardier Learjet 35	1AS001	NONE	5.7%	0.0%	2.9%	0.0%	71.4%	20.0%	0.0%	100.0%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	15.0%	5.0%	0.0%	0.0%	55.0%	25.0%	0.0%	100.0%
Bombardier Learjet 55	1AS002	NONE	3.0%	0.0%	6.1%	0.0%	78.8%	12.1%	0.0%	100.0%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	3.4%	0.0%	5.1%	0.0%	55.9%	35.6%	0.0%	100.0%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Britten-Norman BN-2 Islander	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CASA 212-100 Series	PT6A28	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CASA CN-235-100	CT7-5	NONE	0.0%	0.0%	0.0%	0.0%	71.4%	28.6%	0.0%	100.0%
Cessna 150 Series	O200	NONE	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
Cessna 172 Skyhawk	IO320	NONE	0.0%	0.0%	17.2%	1.7%	67.2%	13.8%	0.0%	100.0%
Cessna 182	IO360	NONE	23.5%	11.8%	11.8%	2.9%	29.4%	20.6%	0.0%	100.0%
Cessna 206	TIO540	IO-540-AC	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
Cessna 208 Caravan	PT6A14	NONE	0.0%	0.0%	0.0%	0.0%	71.4%	28.6%	0.0%	100.0%
Cessna 210 Centurion	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
Cessna 310	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Cessna 337 Skymaster	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cessna 340	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Cessna 402	TIO540	NONE	4.2%	0.0%	0.0%	0.0%	79.2%	16.7%	0.0%	100.0%
Cessna 404 Titan II	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cessna 414	TIO540	NONE	0.0%	25.0%	0.0%	0.0%	50.0%	25.0%	0.0%	100.0%
Cessna 421 Golden Eagle	TIO540	NONE	0.0%	0.0%	33.3%	0.0%	33.3%	33.3%	0.0%	100.0%
Cessna 425 Conquest I	PT6112	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 441 Conquest II	TPE10	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Cessna 501 Citation ISP	1PW035	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	0.0%	0.0%	0.0%	0.0%	73.3%	26.7%	0.0%	100.0%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	100.0%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	8.3%	0.0%	16.7%	0.0%	58.3%	16.7%	0.0%	100.0%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	20.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	100.0%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	9.8%	0.0%	4.9%	0.0%	68.3%	17.1%	0.0%	100.0%
Cessna 551 Citation IISP	1PW036	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 560 Citation Excel	1PW037	NONE	20.0%	0.0%	0.0%	0.0%	70.0%	10.0%	0.0%	100.0%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	4.9%	2.4%	0.0%	0.0%	63.4%	29.3%	0.0%	100.0%
Cessna 650 Citation III	TFE731	NONE	0.0%	8.3%	0.0%	8.3%	66.7%	16.7%	0.0%	100.0%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	16.7%	0.0%	0.0%	0.0%	58.3%	25.0%	0.0%	100.0%
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	16.7%	0.0%	0.0%	0.0%	58.3%	25.0%	0.0%	100.0%
Cessna 750 Citation X	4AL003	NONE	6.9%	0.0%	3.4%	0.0%	48.3%	41.4%	0.0%	100.0%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cirrus SR20	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cirrus SR22	TIO540	NONE	2.2%	1.1%	2.2%	1.1%	39.6%	53.8%	0.0%	100.0%
Convair CV-240/T-29	R1820	NONE	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	100.0%
Convair CV-580	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dassault Falcon 10	1AS001	NONE	14.3%	0.0%	0.0%	0.0%	85.7%	0.0%	0.0%	100.0%
Dassault Falcon 2000	CF700D	NONE	7.4%	3.7%	7.4%	0.0%	74.1%	7.4%	0.0%	100.0%
Dassault Falcon 20-C	CF700D	NONE	10.0%	0.0%	0.0%	0.0%	70.0%	20.0%	0.0%	100.0%
Dassault Falcon 50	TFE731	NONE	2.8%	2.8%	0.0%	0.0%	63.9%	30.6%	0.0%	100.0%
Dassault Falcon 900	TFE731	NONE	0.0%	0.0%	0.0%	0.0%	71.0%	29.0%	0.0%	100.0%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Dornier 328 Jet	1TL004	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	7PW078	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328-100 Series	PW119B	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TB-10 Tobago	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TB-20 Trinidad	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TBM-700	PT6A64	NONE	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	100.0%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer 500	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	100.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Embraer 505	BIZLIGHTJET_F	NONE	5.6%	0.0%	0.0%	0.0%	61.1%	33.3%	0.0%	100.0%
Embraer EMB110 Bandeirante	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Embraer EMB120 Brasilia	PW118	NONE	0.0%	0.0%	0.0%	0.0%	81.8%	18.2%	0.0%	100.0%
Embraer ERJ135	6AL012	NONE	6.3%	0.0%	0.0%	0.0%	25.0%	68.8%	0.0%	100.0%
Embraer ERJ145	4AL003	NONE	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	100.0%
Embraer ERJ170	8GE107	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Embraer ERJ190	8GE115	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.0%	0.0%	0.0%	0.0%	25.0%	75.0%	0.0%	100.0%
EPIC Victory	BIZVERYLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Eurocopter EC 120	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Eurocopter EC-130	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-155B1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Extra EA-500	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fairchild SA-227-AC Metro III	TPE10	NONE	0.0%	0.0%	0.0%	0.0%	81.8%	18.2%	0.0%	100.0%
Falcon 7X	8PW091	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Fokker F27-100 Series	DART14	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	33.3%	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Gulfstream G150	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Gulfstream G200	7PW077	NONE	17.9%	0.0%	0.0%	0.0%	60.7%	21.4%	0.0%	100.0%
Gulfstream G280	11HN005	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Gulfstream G450	6RR042	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream G500	3BR001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream G550	3BR001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream I	DART52	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Gulfstream II-B	1RR016	NONE	7.6%	1.5%	3.0%	0.0%	71.2%	16.7%	0.0%	100.0%



## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Gulfstream IV-SP	6RR042	NONE	7.6%	1.5%	3.0%	0.0%	71.2%	16.7%	0.0%	100.0%
Gulfstream V-SP	3BR001	NONE	6.3%	3.1%	0.0%	0.0%	65.6%	25.0%	0.0%	100.0%
Hawker 900XP	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	42.9%	57.1%	0.0%	100.0%
Hawker HS-125 Series 400	1RR019	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	100.0%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Israel IAI-1124 Westwind I	CJ6106	NONE	20.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	100.0%
Israel IAI-1125 Astra	TFE731	NONE	6.7%	0.0%	0.0%	0.0%	86.7%	6.7%	0.0%	100.0%
Lancair 360	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed C-130 Hercules	501D22	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed L-1329 Jetstar II	AI24VT	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maule MT-7-235	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitsubishi MU-2	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mooney M20-K	TSIO36	NONE	25.0%	0.0%	0.0%	0.0%	50.0%	25.0%	0.0%	100.0%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Partenavia P.68 Victor	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piaggio P.180 Avanti	PT6A60	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Pilatus PC-12	PT6A67	NONE	0.0%	0.0%	0.0%	0.0%	35.0%	65.0%	0.0%	100.0%
Piper PA-23 Apache/Aztec	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piper PA-24 Comanche	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piper PA-27 Aztec	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	3.4%	13.8%	0.0%	0.0%	72.4%	10.3%	0.0%	100.0%
Piper PA-30 Twin Comanche	IO320	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Piper PA-31 Navajo	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Piper PA-31T Cheyenne	PT6A11	NONE	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Piper PA-32 Cherokee Six	TIO540	NONE	16.7%	0.0%	0.0%	0.0%	50.0%	33.3%	0.0%	100.0%
Piper PA-34 Seneca	IO360	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Piper PA-42 Cheyenne Series	PT6A11	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Piper PA46-TP Meridian	PT6A42	NONE	5.3%	0.0%	0.0%	0.0%	42.1%	52.6%	0.0%	100.0%
Quest Kodiak 100	PT6A34	NONE	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	100.0%
Raytheon Beech 18	R1820	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Beech 1900-C	PT6A6B	NONE	0.0%	0.0%	9.1%	0.0%	72.7%	18.2%	0.0%	100.0%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Beech 60 Duke	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Beech Baron 58	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Beech Bonanza 36	TIO540	NONE	25.0%	0.0%	0.0%	0.0%	50.0%	25.0%	0.0%	100.0%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	24.0%	0.0%	0.0%	0.0%	44.0%	32.0%	0.0%	100.0%
Raytheon Hawker 1000	7PW078	NONE	0.0%	0.0%	14.3%	0.0%	42.9%	42.9%	0.0%	100.0%
Raytheon Hawker 4000 Horizon	7PW079	NONE	20.0%	20.0%	0.0%	0.0%	60.0%	0.0%	0.0%	100.0%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	5.8%	1.9%	1.0%	0.0%	76.9%	14.4%	0.0%	100.0%
Raytheon King Air 100	PT6A28	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon King Air 90	P6135A	NONE	33.3%	0.0%	0.0%	0.0%	33.3%	33.3%	0.0%	100.0%
Raytheon Premier I	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	71.4%	28.6%	0.0%	100.0%
Raytheon Starship 2000	PT667A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Super King Air 200	PT6A40	NONE	5.6%	0.0%	5.6%	0.0%	72.2%	16.7%	0.0%	100.0%
Raytheon Super King Air 300	PT660A	NONE	0.0%	0.0%	0.0%	0.0%	62.5%	37.5%	0.0%	100.0%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Robinson R22 Mariner	IO320	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Rockwell Commander 500	TIO540	NONE	1.2%	0.8%	0.2%	0.0%	15.5%	82.3%	0.0%	100.0%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Rockwell Commander 680	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rockwell Commander 690	TPE1	NONE	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	100.0%
Rockwell Sabreliner 65	1AS002	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Saab 340-A	CT7-5	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Schweizer S269D/330	T63A5A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Shorts 330	PT6A45	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Shorts 360-100 Series	PT6A6A	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Shorts Skyvan SC7-3-1	1AS001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky S-64-F	T64100	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky S-76C	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-92	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky SH-60 Sea Hawk	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky UH-60 Black Hawk	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
<b>Grand Total</b>			<b>4.3%</b>	<b>1.1%</b>	<b>1.7%</b>	<b>0.2%</b>	<b>41.1%</b>	<b>26.7%</b>	<b>25.0%</b>	<b>100.0%</b>

Note: Aircraft with a total of 0% means there were no nighttime departures recorded in 2017.

## **APPENDIX A-5**

# 2017 Day Arrival Runway Use Percentages

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## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
1985 1-ENG COMP	TIO540	NONE	62.7%	15.7%	6.0%	1.8%	12.0%	1.8%	0.0%	100.0%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerostar PA-60	TIO540	NONE	50.0%	41.7%	0.0%	0.0%	8.3%	0.0%	0.0%	100.0%
Agusta A-109	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Agusta A119	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Air Tractor 802	P667AF	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Airbus A300F4-600 Series	1GE007	NONE	50.0%	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
Airbus A320-200 Series	1IA001	NONE	75.0%	12.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Airbus A321-200 Series	1CM008	NONE	80.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Airbus A330-200 Series	2RR022	NONE	50.0%	37.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Airbus A330-300 Series	1PW053	NONE	50.0%	37.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Airbus A340-600 Series	6RR041	NONE	50.0%	37.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A380-800 Series/Trent 970	9EA001	NONE	50.0%	37.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
Antonov 12 Cub	AI24VT	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
ATR 42-300	PW120	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
ATR 72-200	BIZHEAVYPROP	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
ATR 72-600	PW127F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Aviat Husky A1B	IO360	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
B787-8R	2GE048	NONE	50.0%	37.5%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
BAE Jetstream 31	TPE10	NONE	71.4%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100.0%
Bell 206 JetRanger	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 214B-1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 222	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 427	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 430	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing 727-200 Series	1PW009	BFG	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 737-300 Series	CFM563	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 737-400 Series	CFM563	NONE	66.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Boeing 737-500 Series	8GE107	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 737-700 Series	1CM007	NONE	70.4%	25.9%	0.0%	0.0%	3.7%	0.0%	0.0%	100.0%
Boeing 737-900-ER	11CM077	NONE	50.0%	33.3%	0.0%	0.0%	16.7%	0.0%	0.0%	100.0%
Boeing 747-400 Series	3GE077	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 757-200 Series	1RR012	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 757-200 Series	4PW072	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 757-300 Series	4PW073	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 767-200 Series	1GE010	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 767-300 Series	1GE012	NONE	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Boeing 777-200 Series	7GE097	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 777-200-LR	7GE097	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing 787-900 Dreamliner	11GE138	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing C-17A	F1171	NONE	70.4%	25.9%	0.0%	0.0%	3.7%	0.0%	0.0%	100.0%
Boeing CH-46 Sea Knight	T588F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing DC-10-30 Series	3GE069	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-3	R1820	R1820-86	62.4%	18.3%	0.0%	0.0%	16.1%	3.2%	0.0%	100.0%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	76.6%	17.2%	0.0%	0.0%	5.6%	0.6%	0.0%	100.0%
Boeing DC-6	R1820	R-2800-CB17	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-8 Series 70	1CM001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing DC-9-10 Series	1PW006	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing MD-11 Freighter	12PW101	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-11 Freighter	3GE078	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-82	1PW017	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-83	4PW068	NONE	61.5%	23.1%	0.0%	0.0%	15.4%	0.0%	0.0%	100.0%
Boeing MD-88	1PW017	NONE	80.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boeing MD-90	1IA004	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Boelkow BO-105	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bombardier Challenger 350	14HN009	NONE	65.9%	22.7%	0.0%	0.0%	11.4%	0.0%	0.0%	100.0%
Bombardier Challenger 604	5GE084	NONE	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Challenger 650	5GE084	NONE	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier CRJ-200	5GE084	NONE	64.5%	26.3%	0.0%	0.0%	9.2%	0.0%	0.0%	100.0%
Bombardier CRJ-700	8GE112	NONE	60.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier CRJ-900	6GE092	NONE	60.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Global 6000 Business	4BR009	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Global Express	4BR008	NONE	60.2%	18.2%	0.0%	0.0%	20.8%	0.7%	0.0%	100.0%
Bombardier Learjet 25	CJ6106	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Learjet 31	1AS001	NONE	71.8%	18.8%	0.0%	0.0%	8.5%	0.9%	0.0%	100.0%
Bombardier Learjet 35	1AS001	NONE	67.6%	18.4%	0.0%	0.4%	13.5%	0.0%	0.0%	100.0%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	55.1%	19.6%	0.9%	0.0%	23.4%	0.9%	0.0%	100.0%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	65.0%	19.9%	0.0%	0.0%	14.3%	0.8%	0.0%	100.0%
Bombardier Learjet 55	1AS002	NONE	72.8%	19.9%	0.0%	0.0%	7.3%	0.0%	0.0%	100.0%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	67.1%	17.0%	0.0%	0.0%	14.7%	1.2%	0.0%	100.0%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	80.0%	13.3%	0.0%	0.0%	3.3%	3.3%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Britten-Norman BN-2 Islander	TIO540	NONE	71.4%	14.3%	0.0%	0.0%	14.3%	0.0%	0.0%	100.0%
CASA 212-100 Series	PT6A28	NONE	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
CASA CN-235-100	CT7-5	NONE	51.3%	22.8%	1.3%	0.3%	21.5%	2.9%	0.0%	100.0%
Cessna 150 Series	O200	NONE	48.4%	9.4%	10.9%	4.7%	25.0%	1.6%	0.0%	100.0%
Cessna 172 Skyhawk	IO320	NONE	51.8%	15.3%	11.7%	2.5%	15.6%	3.2%	0.0%	100.0%
Cessna 182	IO360	NONE	53.0%	21.2%	6.4%	2.5%	8.1%	8.9%	0.0%	100.0%
Cessna 206	TIO540	IO-540-AC	57.8%	12.7%	7.8%	1.0%	16.7%	3.9%	0.0%	100.0%
Cessna 208 Caravan	PT6A14	NONE	63.0%	16.2%	3.4%	0.3%	14.8%	2.4%	0.0%	100.0%
Cessna 210 Centurion	TIO540	NONE	55.1%	24.6%	4.3%	1.4%	7.2%	7.2%	0.0%	100.0%
Cessna 310	TIO540	NONE	68.1%	19.4%	2.8%	0.0%	9.7%	0.0%	0.0%	100.0%
Cessna 337 Skymaster	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cessna 340	TIO540	NONE	60.7%	21.4%	0.0%	0.0%	14.3%	3.6%	0.0%	100.0%
Cessna 402	TIO540	NONE	66.6%	18.0%	0.9%	0.6%	11.6%	2.4%	0.0%	100.0%
Cessna 404 Titan II	TIO540	NONE	69.2%	15.4%	0.0%	0.0%	15.4%	0.0%	0.0%	100.0%
Cessna 414	TIO540	NONE	63.1%	21.4%	1.0%	1.0%	11.7%	1.9%	0.0%	100.0%
Cessna 421 Golden Eagle	TIO540	NONE	67.1%	15.8%	2.6%	0.0%	14.5%	0.0%	0.0%	100.0%
Cessna 425 Conquest I	PT6112	NONE	53.6%	17.9%	0.0%	0.0%	28.6%	0.0%	0.0%	100.0%
Cessna 441 Conquest II	TPE10	NONE	60.7%	21.4%	0.0%	0.0%	17.9%	0.0%	0.0%	100.0%
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	50.0%	21.4%	0.0%	0.0%	25.0%	3.6%	0.0%	100.0%
Cessna 501 Citation ISP	1PW035	NONE	70.0%	16.7%	0.0%	0.0%	13.3%	0.0%	0.0%	100.0%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	64.5%	21.3%	0.3%	0.0%	13.3%	0.6%	0.0%	100.0%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	61.1%	17.4%	0.0%	0.0%	20.5%	1.1%	0.0%	100.0%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	66.2%	22.1%	0.5%	0.0%	9.7%	1.5%	0.0%	100.0%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	67.7%	16.1%	1.1%	0.0%	15.1%	0.0%	0.0%	100.0%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	61.6%	19.9%	0.3%	0.0%	17.4%	0.8%	0.0%	100.0%
Cessna 551 Citation IISP	1PW036	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%



## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 560 Citation Excel	1PW037	NONE	67.2%	21.0%	0.4%	0.0%	10.5%	0.9%	0.0%	100.0%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	68.4%	18.6%	0.0%	0.0%	12.6%	0.4%	0.0%	100.0%
Cessna 650 Citation III	TFE731	NONE	64.4%	20.5%	0.0%	0.0%	13.2%	2.0%	0.0%	100.0%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	69.2%	23.0%	0.0%	0.0%	7.3%	0.5%	0.0%	100.0%
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	78.6%	7.1%	0.0%	0.0%	7.1%	7.1%	0.0%	100.0%
Cessna 750 Citation X	4AL003	NONE	68.5%	20.9%	0.0%	0.0%	10.4%	0.2%	0.0%	100.0%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	49.1%	19.9%	3.1%	0.0%	27.9%	0.0%	0.0%	100.0%
Cirrus SR20	IO360	NONE	38.5%	7.7%	10.3%	1.3%	34.6%	7.7%	0.0%	100.0%
Cirrus SR22	TIO540	NONE	48.9%	15.7%	7.2%	1.2%	24.7%	2.3%	0.0%	100.0%
Convair CV-240/T-29	R1820	NONE	72.8%	22.5%	0.0%	0.0%	4.3%	0.4%	0.0%	100.0%
Convair CV-580	250B17	NONE	72.8%	22.5%	0.0%	0.0%	4.3%	0.4%	0.0%	100.0%
Dassault Falcon 10	1AS001	NONE	78.6%	10.7%	0.0%	0.0%	7.1%	3.6%	0.0%	100.0%
Dassault Falcon 2000	CF700D	NONE	66.4%	19.5%	0.5%	0.0%	11.9%	1.7%	0.0%	100.0%
Dassault Falcon 20-C	CF700D	NONE	72.6%	17.9%	0.0%	0.0%	9.5%	0.0%	0.0%	100.0%
Dassault Falcon 50	TFE731	NONE	72.5%	18.1%	0.0%	0.0%	9.3%	0.0%	0.0%	100.0%
Dassault Falcon 900	TFE731	NONE	65.3%	19.7%	0.6%	0.0%	12.8%	1.7%	0.0%	100.0%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.0%	42.9%	0.0%	57.1%	0.0%	0.0%	0.0%	100.0%
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	62.5%	37.5%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	1TL004	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	7PW078	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328-100 Series	PW119B	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
EADS Socata TB-10 Tobago	IO360	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
EADS Socata TB-20 Trinidad	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
EADS Socata TBM-700	PT6A64	NONE	67.7%	15.4%	0.0%	0.0%	14.6%	2.3%	0.0%	100.0%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	48.0%	18.7%	0.0%	0.7%	30.7%	2.0%	0.0%	100.0%
Embraer 500	BIZLIGHTJET_F	NONE	61.7%	18.7%	0.0%	0.0%	16.8%	2.8%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Embraer 505	BIZLIGHTJET_F	NONE	56.4%	20.9%	0.0%	0.0%	21.9%	0.8%	0.0%	100.0%
Embraer EMB110 Bandeirante	PT6A27	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Embraer EMB120 Brasilia	PW118	NONE	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	100.0%
Embraer ERJ135	6AL012	NONE	71.4%	17.0%	0.0%	0.0%	11.6%	0.0%	0.0%	100.0%
Embraer ERJ145	4AL003	NONE	61.8%	35.3%	0.0%	0.0%	2.9%	0.0%	0.0%	100.0%
Embraer ERJ170	8GE107	NONE	75.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Embraer ERJ190	8GE115	NONE	85.7%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	56.3%	25.0%	0.0%	0.0%	18.8%	0.0%	0.0%	100.0%
EPIC Victory	BIZVERYLIGHTJET_F	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Eurocopter EC 120	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-130	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-155B1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Extra EA-500	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Fairchild SA-227-AC Metro III	TPE10	NONE	26.1%	8.7%	0.0%	0.0%	65.2%	0.0%	0.0%	100.0%
Falcon 7X	8PW091	NONE	56.2%	26.0%	0.0%	0.0%	15.1%	2.7%	0.0%	100.0%
Fokker F27-100 Series	DART14	NONE	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	100.0%
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	71.4%	25.7%	0.0%	0.0%	2.9%	0.0%	0.0%	100.0%
Gulfstream G150	BIZMEDIUMJET_F	NONE	59.8%	21.6%	1.0%	0.0%	17.5%	0.0%	0.0%	100.0%
Gulfstream G200	7PW077	NONE	66.5%	17.9%	0.0%	0.3%	13.7%	1.6%	0.0%	100.0%
Gulfstream G280	11HN005	NONE	77.5%	17.5%	0.0%	0.0%	5.0%	0.0%	0.0%	100.0%
Gulfstream G450	6RR042	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream G500	3BR001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream G550	3BR001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream I	DART52	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Gulfstream II-B	1RR016	NONE	0.0%	75.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Gulfstream IV-SP	6RR042	NONE	67.7%	18.1%	0.0%	0.0%	13.5%	0.7%	0.0%	100.0%
Gulfstream V-SP	3BR001	NONE	58.6%	21.4%	0.0%	0.0%	19.1%	0.9%	0.0%	100.0%
Hawker 900XP	BIZMEDIUMJET_F	NONE	75.0%	17.8%	0.0%	0.7%	5.9%	0.7%	0.0%	100.0%
Hawker HS-125 Series 400	1RR019	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	82.1%	15.4%	0.0%	0.0%	2.6%	0.0%	0.0%	100.0%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Israel IAI-1124 Westwind I	CJ6106	NONE	64.3%	20.2%	0.0%	0.0%	15.5%	0.0%	0.0%	100.0%
Israel IAI-1125 Astra	TFE731	NONE	68.2%	21.8%	0.0%	0.5%	8.5%	0.9%	0.0%	100.0%
Lancair 360	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Lockheed C-130 Hercules	501D22	NONE	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Lockheed L-1329 Jetstar II	AI24VT	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Maule MT-7-235	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Mitsubishi MU-2	TPE1	NONE	70.6%	23.5%	0.0%	0.0%	5.9%	0.0%	0.0%	100.0%
Mitsubishi MU-300 Diamond	1PW036	NONE	66.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Mooney M20-K	TSIO36	NONE	57.1%	25.4%	4.8%	1.6%	9.5%	1.6%	0.0%	100.0%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Partenavia P.68 Victor	IO360	NONE	57.1%	28.6%	0.0%	0.0%	14.3%	0.0%	0.0%	100.0%
Piaggio P.180 Avanti	PT6A60	NONE	60.9%	23.9%	0.0%	0.0%	15.2%	0.0%	0.0%	100.0%
Pilatus PC-12	PT6A67	NONE	48.5%	19.3%	1.3%	0.5%	28.9%	1.6%	0.0%	100.0%
Piper PA-23 Apache/Aztec	TIO540	NONE	77.8%	11.1%	0.0%	0.0%	11.1%	0.0%	0.0%	100.0%
Piper PA-24 Comanche	TIO540	NONE	64.3%	21.4%	7.1%	0.0%	7.1%	0.0%	0.0%	100.0%
Piper PA-27 Aztec	TIO540	NONE	55.4%	20.5%	2.4%	2.4%	15.7%	3.6%	0.0%	100.0%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	57.7%	15.5%	10.6%	1.9%	11.0%	3.2%	0.0%	100.0%
Piper PA-30 Twin Comanche	IO320	NONE	54.6%	21.3%	7.4%	1.9%	13.9%	0.9%	0.0%	100.0%
Piper PA-31 Navajo	TIO540	NONE	60.2%	27.6%	2.4%	0.0%	8.9%	0.8%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Piper PA-31T Cheyenne	PT6A11	NONE	60.9%	15.2%	0.0%	0.0%	23.9%	0.0%	0.0%	100.0%
Piper PA-32 Cherokee Six	TIO540	NONE	59.0%	21.7%	5.3%	0.0%	10.7%	3.3%	0.0%	100.0%
Piper PA-34 Seneca	IO360	NONE	69.9%	17.7%	3.8%	0.5%	6.7%	1.4%	0.0%	100.0%
Piper PA-42 Cheyenne Series	PT6A11	NONE	28.6%	0.0%	0.0%	0.0%	71.4%	0.0%	0.0%	100.0%
Piper PA46-TP Meridian	PT6A42	NONE	49.1%	17.0%	5.0%	0.0%	27.5%	1.4%	0.0%	100.0%
Quest Kodiak 100	PT6A34	NONE	55.9%	16.2%	1.5%	4.4%	17.6%	4.4%	0.0%	100.0%
Raytheon Beech 18	R1820	NONE	66.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
Raytheon Beech 1900-C	PT6A6B	NONE	83.3%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	55.4%	23.1%	3.1%	1.5%	13.8%	3.1%	0.0%	100.0%
Raytheon Beech 60 Duke	TIO540	NONE	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Raytheon Beech Baron 58	TIO540	NONE	66.0%	19.7%	2.7%	0.7%	10.2%	0.7%	0.0%	100.0%
Raytheon Beech Bonanza 36	TIO540	NONE	59.2%	16.7%	4.6%	0.0%	17.8%	1.7%	0.0%	100.0%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	62.4%	23.8%	0.2%	0.0%	12.3%	1.2%	0.0%	100.0%
Raytheon Hawker 1000	7PW078	NONE	43.4%	24.5%	0.0%	0.0%	32.1%	0.0%	0.0%	100.0%
Raytheon Hawker 4000 Horizon	7PW079	NONE	78.1%	17.1%	0.0%	0.0%	4.1%	0.7%	0.0%	100.0%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	68.5%	20.6%	0.0%	0.0%	10.2%	0.6%	0.0%	100.0%
Raytheon King Air 100	PT6A28	NONE	63.4%	19.5%	0.0%	0.0%	14.6%	2.4%	0.0%	100.0%
Raytheon King Air 90	P6135A	NONE	70.5%	20.1%	2.2%	0.0%	6.5%	0.7%	0.0%	100.0%
Raytheon Premier I	BIZLIGHTJET_F	NONE	63.2%	26.4%	0.0%	0.0%	8.5%	1.9%	0.0%	100.0%
Raytheon Starship 2000	PT667A	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Raytheon Super King Air 200	PT6A40	NONE	60.7%	23.0%	1.1%	0.0%	14.1%	1.1%	0.0%	100.0%
Raytheon Super King Air 300	PT660A	NONE	56.4%	19.8%	2.5%	0.0%	19.8%	1.6%	0.0%	100.0%
Reims-Cessna 406 Caravan II	PT6112	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Robinson R22 Mariner	IO320	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Rockwell Commander 500	TIO540	NONE	7.9%	4.5%	1.1%	2.2%	71.9%	12.4%	0.0%	100.0%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Rockwell Commander 680	TIO540	NONE	62.5%	37.5%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Rockwell Commander 690	TPE1	NONE	71.8%	12.8%	2.6%	0.0%	10.3%	2.6%	0.0%	100.0%
Rockwell Sabreliner 65	1AS002	NONE	44.0%	14.0%	0.0%	0.0%	42.0%	0.0%	0.0%	100.0%
Saab 340-A	CT7-5	NONE	73.5%	10.2%	2.0%	0.0%	14.3%	0.0%	0.0%	100.0%
Schweizer S269D/330	T63A5A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Shorts 330	PT6A45	NONE	33.3%	16.7%	0.0%	16.7%	33.3%	0.0%	0.0%	100.0%
Shorts 360-100 Series	PT6A6A	NONE	71.8%	19.0%	0.6%	0.6%	6.9%	1.1%	0.0%	100.0%
Shorts Skyvan SC7-3-1	1AS001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Sikorsky S-64-F	T64100	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-76C	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-92	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky SH-60 Sea Hawk	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky UH-60 Black Hawk	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
<b>Grand Total</b>			<b>54.1%</b>	<b>16.5%</b>	<b>1.7%</b>	<b>0.4%</b>	<b>12.4%</b>	<b>1.2%</b>	<b>13.7%</b>	<b>100.0%</b>

Note: Aircraft with a total of 0% means there were no daytime arrivals recorded in 2017.

## **APPENDIX A-6**

### **2017 Night Arrival Runway Use Percentages**

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## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
1985 1-ENG COMP	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aerostar PA-60	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Agusta A-109	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Agusta A119	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Air Tractor 802	P667AF	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A300F4-600 Series	1GE007	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A320-200 Series	1IA001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A321-200 Series	1CM008	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Airbus A330-200 Series	2RR022	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A330-300 Series	1PW053	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A340-600 Series	6RR041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Airbus A380-800 Series/Trent 970	9EA001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Antonov 12 Cub	AI24VT	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 42-300	PW120	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 72-200	BIZHEAVYPROP	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ATR 72-600	PW127F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aviat Husky A1B	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
B787-8R	2GE048	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BAE Jetstream 31	TPE10	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 206 JetRanger	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 214B-1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bell 222	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 427	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bell 430	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Boeing 727-200 Series	1PW009	BFG	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 737-300 Series	CFM563	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-400 Series	CFM563	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-500 Series	8GE107	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 737-700 Series	1CM007	NONE	0.0%	0.0%	0.0%	0.0%	92.9%	7.1%	0.0%	100.0%
Boeing 737-900-ER	11CM077	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 747-400 Series	3GE077	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 757-200 Series	1RR012	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 757-200 Series	4PW072	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 757-300 Series	4PW073	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 767-200 Series	1GE010	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 767-300 Series	1GE012	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 777-200 Series	7GE097	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing 777-200-LR	7GE097	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing 787-900 Dreamliner	11GE138	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing C-17A	F1171	NONE	0.0%	0.0%	0.0%	0.0%	92.9%	7.1%	0.0%	100.0%
Boeing CH-46 Sea Knight	T588F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-10-30 Series	3GE069	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-3	R1820	R1820-86	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing DC-6	R1820	R-2800-CB17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-8 Series 70	1CM001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing DC-9-10 Series	1PW006	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%



## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing MD-11 Freighter	12PW101	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-11 Freighter	3GE078	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-82	1PW017	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-83	4PW068	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Boeing MD-88	1PW017	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-90	1A004	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Boelkew BO-105	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Challenger 350	14HN009	NONE	14.3%	0.0%	0.0%	0.0%	85.7%	0.0%	0.0%	100.0%
Bombardier Challenger 604	5GE084	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Challenger 650	5GE084	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier CRJ-200	5GE084	NONE	50.0%	10.0%	0.0%	0.0%	40.0%	0.0%	0.0%	100.0%
Bombardier CRJ-700	8GE112	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier CRJ-900	6GE092	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier de Havilland Dash 8 Q100	PW120A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier de Havilland Dash 8 Q400	BIZHEAVYPROP_F	NONE_GNR_VAR1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bombardier Global 6000 Business	4BR009	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Bombardier Global Express	4BR008	NONE	5.5%	0.9%	0.0%	0.0%	86.2%	7.3%	0.0%	100.0%
Bombardier Learjet 25	CJ6106	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Bombardier Learjet 31	1AS001	NONE	11.1%	11.1%	0.0%	0.0%	77.8%	0.0%	0.0%	100.0%
Bombardier Learjet 35	1AS001	NONE	0.0%	0.0%	0.0%	0.0%	96.0%	4.0%	0.0%	100.0%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	33.3%	0.0%	0.0%	0.0%	55.6%	11.1%	0.0%	100.0%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	2.9%	5.7%	2.9%	2.9%	62.9%	22.9%	0.0%	100.0%
Bombardier Learjet 55	1AS002	NONE	10.9%	3.6%	0.0%	0.0%	74.5%	10.9%	0.0%	100.0%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	5.3%	3.9%	0.0%	0.0%	84.2%	6.6%	0.0%	100.0%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Britten-Norman BN-2 Islander	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CASA 212-100 Series	PT6A28	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CASA CN-235-100	CT7-5	NONE	0.0%	0.0%	0.0%	0.0%	82.4%	17.6%	0.0%	100.0%
Cessna 150 Series	O200	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 172 Skyhawk	IO320	NONE	7.3%	1.8%	0.9%	0.0%	81.8%	8.2%	0.0%	100.0%
Cessna 182	IO360	NONE	17.4%	4.3%	8.7%	4.3%	34.8%	30.4%	0.0%	100.0%
Cessna 206	TIO540	IO-540-AC	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 208 Caravan	PT6A14	NONE	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	100.0%
Cessna 210 Centurion	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 310	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 337 Skymaster	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cessna 340	TIO540	NONE	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Cessna 402	TIO540	NONE	6.3%	0.0%	0.0%	0.0%	87.5%	6.3%	0.0%	100.0%
Cessna 404 Titan II	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cessna 414	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	100.0%
Cessna 421 Golden Eagle	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 425 Conquest I	PT6112	NONE	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Cessna 441 Conquest II	TPE10	NONE	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
Cessna 500 Citation I	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 501 Citation ISP	1PW035	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	0.0%	4.5%	0.0%	0.0%	86.4%	9.1%	0.0%	100.0%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	7.7%	0.0%	0.0%	0.0%	92.3%	0.0%	0.0%	100.0%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	10.0%	0.0%	0.0%	0.0%	80.0%	10.0%	0.0%	100.0%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	10.0%	0.0%	0.0%	0.0%	90.0%	0.0%	0.0%	100.0%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	14.3%	0.0%	0.0%	0.0%	78.6%	7.1%	0.0%	100.0%
Cessna 551 Citation IISP	1PW036	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 560 Citation Excel	1PW037	NONE	12.5%	5.0%	0.0%	0.0%	72.5%	10.0%	0.0%	100.0%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	3.3%	0.0%	0.0%	0.0%	88.3%	8.3%	0.0%	100.0%
Cessna 650 Citation III	TFE731	NONE	9.1%	0.0%	0.0%	0.0%	90.9%	0.0%	0.0%	100.0%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	15.0%	0.0%	0.0%	0.0%	70.0%	15.0%	0.0%	100.0%
Cessna 680-A Citation Latitude	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
Cessna 750 Citation X	4AL003	NONE	0.0%	3.8%	0.0%	0.0%	94.2%	1.9%	0.0%	100.0%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	20.0%	0.0%	0.0%	0.0%	60.0%	20.0%	0.0%	100.0%
Cirrus SR20	IO360	NONE	25.0%	0.0%	0.0%	0.0%	50.0%	25.0%	0.0%	100.0%
Cirrus SR22	TIO540	NONE	3.1%	1.0%	0.0%	0.0%	91.8%	4.1%	0.0%	100.0%
Convair CV-240/T-29	R1820	NONE	16.7%	0.0%	0.0%	0.0%	50.0%	33.3%	0.0%	100.0%
Convair CV-580	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dassault Falcon 10	1AS001	NONE	5.0%	0.0%	0.0%	0.0%	95.0%	0.0%	0.0%	100.0%
Dassault Falcon 2000	CF700D	NONE	8.6%	0.0%	0.0%	0.0%	82.9%	8.6%	0.0%	100.0%
Dassault Falcon 20-C	CF700D	NONE	0.0%	8.3%	0.0%	0.0%	75.0%	16.7%	0.0%	100.0%
Dassault Falcon 50	TFE731	NONE	3.7%	0.0%	0.0%	0.0%	92.6%	3.7%	0.0%	100.0%
Dassault Falcon 900	TFE731	NONE	4.3%	2.2%	0.0%	0.0%	80.4%	13.0%	0.0%	100.0%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DeHavilland DHC-6-100 Twin Otter	PT6A20	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	1TL004	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328 Jet	7PW078	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Dornier 328-100 Series	PW119B	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TB-10 Tobago	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TB-20 Trinidad	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EADS Socata TBM-700	PT6A64	NONE	25.0%	0.0%	0.0%	0.0%	75.0%	0.0%	0.0%	100.0%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer 500	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Embraer 505	BIZLIGHTJET_F	NONE	6.5%	9.7%	0.0%	0.0%	77.4%	6.5%	0.0%	100.0%
Embraer EMB110 Bandeirante	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Embraer EMB120 Brasilia	PW118	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer ERJ135	6AL012	NONE	0.0%	9.4%	0.0%	0.0%	71.9%	18.8%	0.0%	100.0%
Embraer ERJ145	4AL003	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer ERJ170	8GE107	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Embraer ERJ190	8GE115	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
EPIC Victory	BIZVERYLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Eurocopter EC 120	PT6A27	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Eurocopter EC-130	TPE3	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Eurocopter EC-155B1	T400	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Extra EA-500	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fairchild SA-227-AC Metro III	TPE10	NONE	0.0%	0.0%	0.0%	1.9%	86.8%	11.3%	0.0%	100.0%
Falcon 7X	8PW091	NONE	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	100.0%
Fokker F27-100 Series	DART14	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GULFSTREAM AEROSPACE Gulfstream G650	11BR011	NONE	0.0%	33.3%	0.0%	0.0%	66.7%	0.0%	0.0%	100.0%
Gulfstream G150	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	60.0%	40.0%	0.0%	100.0%
Gulfstream G200	7PW077	NONE	5.0%	0.0%	0.0%	0.0%	85.0%	10.0%	0.0%	100.0%
Gulfstream G280	11HN005	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Gulfstream G450	6RR042	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream G500	3BR001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream G550	3BR001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream I	DART52	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Gulfstream II-B	1RR016	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Gulfstream IV-SP	6RR042	NONE	4.7%	2.7%	0.0%	0.0%	83.2%	9.4%	0.0%	100.0%
Gulfstream V-SP	3BR001	NONE	0.0%	3.3%	0.0%	0.0%	85.0%	11.7%	0.0%	100.0%
Hawker 900XP	BIZMEDIUMJET_F	NONE	15.4%	7.7%	0.0%	0.0%	76.9%	0.0%	0.0%	100.0%
Hawker HS-125 Series 400	1RR019	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Israel IAI-1124 Westwind I	CJ6106	NONE	8.3%	0.0%	0.0%	0.0%	91.7%	0.0%	0.0%	100.0%
Israel IAI-1125 Astra	TFE731	NONE	6.7%	6.7%	0.0%	0.0%	73.3%	13.3%	0.0%	100.0%
Lancair 360	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed C-130 Hercules	501D22	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed L-1329 Jetstar II	AI24VT	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lockheed P-3 Orion ANP:P3A	T56A14	T56-A-14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maule MT-7-235	250B17	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitsubishi MU-2	TPE1	NONE	0.0%	0.0%	0.0%	0.0%	87.5%	12.5%	0.0%	100.0%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mooney M20-K	TSIO36	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Partenavia P.68 Victor	IO360	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piaggio P.180 Avanti	PT6A60	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Pilatus PC-12	PT6A67	NONE	7.7%	3.8%	0.0%	0.0%	84.6%	3.8%	0.0%	100.0%
Piper PA-23 Apache/Aztec	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piper PA-24 Comanche	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piper PA-27 Aztec	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	3.8%	3.8%	0.0%	0.0%	76.9%	15.4%	0.0%	100.0%
Piper PA-30 Twin Comanche	IO320	NONE	0.0%	0.0%	20.0%	0.0%	80.0%	0.0%	0.0%	100.0%
Piper PA-31 Navajo	TIO540	NONE	16.7%	0.0%	0.0%	0.0%	66.7%	16.7%	0.0%	100.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Piper PA-31T Cheyenne	PT6A11	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Piper PA-32 Cherokee Six	TIO540	NONE	16.7%	0.0%	0.0%	0.0%	83.3%	0.0%	0.0%	100.0%
Piper PA-34 Seneca	IO360	NONE	20.0%	0.0%	0.0%	0.0%	60.0%	20.0%	0.0%	100.0%
Piper PA-42 Cheyenne Series	PT6A11	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Piper PA46-TP Meridian	PT6A42	NONE	0.0%	20.0%	0.0%	0.0%	60.0%	20.0%	0.0%	100.0%
Quest Kodiak 100	PT6A34	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Beech 18	R1820	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Beech 1900-C	PT6A6B	NONE	0.0%	0.0%	0.0%	0.0%	93.9%	6.1%	0.0%	100.0%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Beech 60 Duke	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Beech Baron 58	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon Beech Bonanza 36	TIO540	NONE	14.3%	0.0%	0.0%	0.0%	85.7%	0.0%	0.0%	100.0%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	5.9%	2.9%	0.0%	0.0%	70.6%	20.6%	0.0%	100.0%
Raytheon Hawker 1000	7PW078	NONE	14.3%	0.0%	0.0%	0.0%	71.4%	14.3%	0.0%	100.0%
Raytheon Hawker 4000 Horizon	7PW079	NONE	9.1%	9.1%	0.0%	0.0%	81.8%	0.0%	0.0%	100.0%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	10.1%	4.7%	0.0%	1.4%	75.0%	8.8%	0.0%	100.0%
Raytheon King Air 100	PT6A28	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Raytheon King Air 90	P6135A	NONE	11.1%	0.0%	0.0%	0.0%	88.9%	0.0%	0.0%	100.0%
Raytheon Premier I	BIZLIGHTJET_F	NONE	20.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	100.0%
Raytheon Starship 2000	PT667A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Raytheon Super King Air 200	PT6A40	NONE	14.3%	0.0%	0.0%	0.0%	85.7%	0.0%	0.0%	100.0%
Raytheon Super King Air 300	PT660A	NONE	0.0%	11.1%	0.0%	0.0%	77.8%	11.1%	0.0%	100.0%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Robinson R22 Mariner	IO320	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Rockwell Commander 500	TIO540	NONE	0.3%	1.0%	0.3%	0.5%	91.7%	6.2%	0.0%	100.0%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Rockwell Commander 680	TIO540	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rockwell Commander 690	TPE1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Rockwell Sabreliner 65	1AS002	NONE	33.3%	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	100.0%
Saab 340-A	CT7-5	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Schweizer S269D/330	T63A5A	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Shorts 330	PT6A45	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Shorts 360-100 Series	PT6A6A	NONE	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Shorts Skyvan SC7-3-1	1AS001	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky S-64-F	T64100	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky S-76C	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Sikorsky S-92	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky SH-60 Sea Hawk	T70041	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky UH-60 Black Hawk	T70070	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
<b>Grand Total</b>			<b>3.8%</b>	<b>1.7%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>62.5%</b>	<b>6.4%</b>	<b>25.0%</b>	<b>100.0%</b>

Note: Aircraft with a total of 0% means there were no nighttime arrivals recorded in 2017.

## **APPENDIX A-7**

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# 2017 Fixed-Wing Aircraft Touch and Go Runway Use Percentages – Day



## 2017 Fixed-Wing Aircraft Touch and Go Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	12	30	Grand Total
1985 BUSINESS JET	1AS002	NONE	70.0%	15.0%	0.0%	0.0%	7.0%	8.0%	100.00%
A-7E Corsair	TF41A2	TF41-A-1	70.0%	15.0%	0.0%	0.0%	7.0%	8.0%	100.00%
ATR 72-200	PW127G	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Boeing DC-10-30ER	3GE074	NONE	72.0%	15.0%	0.0%	0.0%	5.0%	8.0%	100.00%
Bombardier Learjet 35	1AS001	NONE	71.3%	10.9%	1.2%	0.0%	8.1%	8.5%	100.00%
CASA CN-235-100	CT7-5	NONE	66.2%	1.7%	0.7%	0.0%	12.6%	18.8%	100.00%
Cessna 150 Series	O200	NONE	68.3%	4.8%	11.1%	0.0%	9.5%	6.3%	100.00%
Cessna 172 Skyhawk	IO320	NONE	62.4%	11.0%	4.5%	1.4%	16.2%	4.4%	100.00%
Cessna 208 Caravan	PT6A14	NONE	58.6%	10.9%	2.9%	1.7%	18.0%	7.9%	100.00%
Cessna 402	TIO540	NONE	64.3%	19.0%	1.3%	0.4%	12.3%	2.7%	100.00%
Cirrus SR22	TIO540	NONE	65.9%	7.1%	2.7%	2.1%	13.9%	8.2%	100.00%
Lockheed C-130 Hercules	250B17	NONE	72.0%	15.0%	0.0%	0.0%	5.0%	8.0%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	60.7%	8.5%	9.7%	1.6%	15.4%	4.0%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	72.1%	17.4%	0.2%	0.0%	5.5%	4.7%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	69.6%	14.0%	0.8%	0.4%	7.0%	8.2%	100.00%
<b>Total</b>			<b>63.4%</b>	<b>10.1%</b>	<b>4.9%</b>	<b>1.4%</b>	<b>15.2%</b>	<b>5.1%</b>	<b>100.00%</b>

## **APPENDIX A-8**

# 2017 Fixed-Wing Aircraft Touch and Go Runway Use Percentages – Night

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## 2017 Fixed-Wing Aircraft Touch and Go Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	12	30	Grand Total
1985 BUSINESS JET	1AS002	NONE	8.0%	2.0%	0.0%	0.0%	68.0%	22.0%	100.00%
A-7E Corsair	TF41A2	TF41-A-1	8.0%	2.0%	0.0%	0.0%	68.0%	22.0%	100.00%
ATR 72-200	PW127G	NONE	9.0%	2.0%	0.0%	0.0%	58.0%	31.0%	100.00%
Boeing DC-10-30ER	3GE074	NONE	9.0%	2.0%	0.0%	0.0%	58.0%	31.0%	100.00%
Bombardier Learjet 35	1AS001	NONE	5.7%	0.0%	2.9%	0.0%	71.4%	20.0%	100.00%
CASA CN-235-100	CT7-5	NONE	0.0%	0.0%	0.0%	0.0%	71.4%	28.6%	100.00%
Cessna 150 Series	O200	NONE	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	100.00%
Cessna 172 Skyhawk	IO320	NONE	0.0%	0.0%	17.2%	1.7%	67.2%	13.8%	100.00%
Cessna 208 Caravan	PT6A14	NONE	0.0%	0.0%	0.0%	0.0%	71.4%	28.6%	100.00%
Cessna 402	TIO540	NONE	4.2%	0.0%	0.0%	0.0%	79.2%	16.7%	100.00%
Cirrus SR22	TIO540	NONE	2.2%	1.1%	2.2%	1.1%	39.6%	53.8%	100.00%
Lockheed C-130 Hercules	250B17	NONE	9.0%	2.0%	0.0%	0.0%	58.0%	31.0%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	3.4%	13.8%	0.0%	0.0%	72.4%	10.3%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	5.8%	1.9%	1.0%	0.0%	76.9%	14.4%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	5.6%	0.0%	5.6%	0.0%	72.2%	16.7%	100.00%
<b>Total</b>			<b>0.9%</b>	<b>1.8%</b>	<b>12.1%</b>	<b>1.3%</b>	<b>65.6%</b>	<b>18.3%</b>	<b>100.00%</b>

## **APPENDIX A-9**

### **2017 Flight Track Utilization**

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## 2017 Flight Track Use Percentages

Arrival			Departure			Touch and Go		
Runway	Track ID	Runway Use %	Runway	Track ID	Runway Use %	Runway	Track ID	Runway Use %
09L	09LA01	50%	09L	09LD01	70%	09L	09LT01	100%
	09LA02	15%		09LD02	20%	<b>Total</b>	<b>100%</b>	
	09LA03	30%		09LD03	10%	27R	27RT01	100%
	09LA04	5%	<b>Total</b>	<b>100%</b>	<b>Total</b>	<b>100%</b>		
<b>Total</b>	<b>100%</b>		27RD01	35%	09R	09RT01	100%	
27R	27RA01	60%	27R	27RD02	50%	<b>Total</b>	<b>100%</b>	
	27RA02	10%		27RD03	10%	27L	27LT01	100%
	27RA03	30%		27RD04	5%	<b>Total</b>	<b>100%</b>	
<b>Total</b>	<b>100%</b>	<b>Total</b>		<b>100%</b>	12	12T01	100%	
09R	09RA01	40%	09R	09RD01	60%	<b>Total</b>	<b>100%</b>	
	09RA02	30%		09RD02	10%	30	30T01	100%
	09RA03	10%		09RD03	30%	<b>Total</b>	<b>100%</b>	
	09RA04	20%	<b>Total</b>	<b>100%</b>	H1	H1A07/H1D07	25%	
<b>Total</b>	<b>100%</b>		27LD01	50%		H1A08/H1D08	25%	
27L	27LA01	50%	27L	27LD02		10%	H1A09/H1D09	25%
	27LA02	50%		27LD03		40%	H1A10/H1D10	25%
<b>Total</b>	<b>100%</b>	<b>Total</b>		<b>100%</b>	<b>Total</b>	<b>100%</b>		
12	12A01	40%	12	12D01	5%			
	12A02	20%		12D02	50%			
	12A03	20%		12D03	20%			
	12A04	20%		12D04	20%			
<b>Total</b>	<b>100%</b>	12D05		5%				
30	30A01	60%	<b>Total</b>	<b>100%</b>				

## 2017 Flight Track Use Percentages

Arrival			Departure			Touch and Go		
Runway	Track ID	Runway Use %	Runway	Track ID	Runway Use %	Runway	Track ID	Runway Use %
	30A02	20%		30D01	70%			
	30A03	10%	<b>30</b>	30D02	25%			
	30A04	10%		30D03	5%			
<b>Total</b>		<b>100%</b>	<b>Total</b>		<b>100%</b>			
	H1A01	16.7%		H1D01	16.7%			
	H1A02	16.7%		H1D02	16.7%			
<b>H1</b>	H1A03	16.7%	<b>H1</b>	H1D03	16.7%			
	H1A04	16.7%		H1D04	16.7%			
	H1A05	16.7%		H1D05	16.7%			
	H1A06	16.7%		H1D06	16.7%			
<b>Total</b>		<b>100%</b>	<b>Total</b>		<b>100%</b>			

Note: Large jet and large multi-engine turboprop aircraft are using only straight-in and straight-out flight tracks.

# **APPENDIX A-10**

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## 2017 Flight Track Dispersion Percentages

## 2017 Flight Track Dispersion Percentages

Arrival Track Dispersion Percentages								Departure Track Dispersion Percentages							
Runway	Track ID	0	1	2	3	4	Total	Runway	Track ID	0	1	2	3	4	Total
09L	09LA01	50%	40%	10%	0%	0%	100%	09L	09LD01	30%	25%	25%	10%	10%	100%
	09LA02	60%	20%	20%	0%	0%	100%		09LD02	30%	25%	25%	10%	10%	100%
	09LA03	30%	20%	20%	15%	15%	100%		09LD03	40%	30%	30%	0%	0%	100%
	09LA04	50%	25%	25%	0%	0%	100%		27RD01	30%	30%	30%	5%	5%	100%
27R	27RA01	15%	70%	15%	0%	0%	100%	27R	27RD02	30%	30%	30%	5%	5%	100%
	27RA02	40%	30%	30%	0%	0%	100%		27RD03	30%	20%	20%	15%	15%	100%
	27RA03	40%	20%	20%	10%	10%	100%		27RD04	40%	30%	30%	0%	0%	100%
09RA01	60%	30%	10%	0%	0%	100%	09RD01		40%	30%	30%	0%	0%	100%	
09R	09RA02	40%	30%	30%	0%	0%	100%	09R	09RD02	40%	30%	30%	0%	0%	100%
	09RA03	40%	30%	30%	0%	0%	100%		09RD03	40%	30%	30%	0%	0%	100%
	09RA04	50%	25%	25%	0%	0%	100%		27LD01	40%	30%	30%	0%	0%	100%
	27L	27LA01	50%	25%	25%	0%	0%	100%	27L	27LD02	40%	30%	30%	0%	0%
27LA02		40%	30%	30%	0%	0%	100%	27LD03		40%	30%	30%	0%	0%	100%
12	12A01*	15%	40%	10%	20%	5%	100%	12		12D01	100%	0%	0%	0%	0%
	12A02	30%	25%	25%	10%	10%	100%		12D02	30%	20%	20%	15%	15%	100%
	12A03	40%	30%	30%	0%	0%	100%		12D03	50%	25%	25%	0%	0%	100%
	12A04	50%	25%	25%	0%	0%	100%		12D04	40%	30%	30%	0%	0%	100%
30A01	20%	20%	20%	20%	20%	100%	12D05		40%	30%	30%	0%	0%	100%	
30	30A02	40%	30%	30%	0%	0%	100%	30	30D01	20%	20%	20%	20%	20%	100%
	30A03	40%	30%	30%	0%	0%	100%		30D02	30%	20%	20%	10%	0%	100%
	30A04	40%	30%	30%	0%	0%	100%		30D03	40%	30%	30%	0%	0%	100%

Note: Helicopter and Touch-and-Go flight tracks are not listed because helicopter operations were not dispersed across sub-tracks.

\* Track 12A01 includes seven dispersion tracks. The two dispersion tracks not shown in the table have weightings of 5% each.