

# FINAL REPORT – 2017 NOISE CONTOUR ANALYSIS

Aviation Acoustical and Land Use Compatibility  
Planning Services  
Miami Executive Airport (TMB)

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

December 27, 2018

by  
ENVIRONMENTAL SCIENCE ASSOCIATES  
5401 South Kirkman Rd. Ste. 405  
Orlando, Florida 32819





# FINAL REPORT – 2017 NOISE CONTOUR ANALYSIS

## Aviation Acoustical and Land Use Compatibility Planning Services Miami Executive Airport (TMB)

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

December 27, 2018

5401 South Kirkman Road  
Suite 405  
Orlando, FL 32819  
407.403.6300  
[www.esassoc.com](http://www.esassoc.com)



**OUR COMMITMENT TO SUSTAINABILITY** | ESA helps a variety of public and private sector clients plan and prepare for climate change and emerging regulations that limit GHG emissions. ESA is a registered assessor with the California Climate Action Registry, a Climate Leader, and founding reporter for the Climate Registry. ESA is also a corporate member of the U.S. Green Building Council and the Business Council on Climate Change (BC3). Internally, ESA has adopted a Sustainability Vision and Policy Statement and a plan to reduce waste and energy within our operations. This document was produced using recycled paper.





# TABLE OF CONTENTS

---

## TMB 2017 Noise Contours

		<u>Page</u>
<b>Sections</b>		
1.0	Introduction and Overview	1
2.0	TMB ANOMS Aircraft Operations	1
3.0	Aircraft Fleet Mix	2
4.0	Stage Lengths	2
5.0	Time of Day	3
6.0	Runway Use	3
7.0	Flight Track and Flight Track Use Percentages	5
8.0	2017 DNL Noise Contours	13
9.0	2009 versus 2017 DNL Noise Contour Comparison	13

### Appendices

A	Operations Information
---	------------------------

### List of Figures

Figure 1: Fixed-Wing AEDT Flight Tracks – East Flow
Figure 2: Fixed-Wing AEDT Flight Tracks – West Flow
Figure 3: Helicopter and Fixed-Wing Touch-and-Go AEDT Flight Tracks
Figure 4: 2017 DNL Contours
Figure 5: 2017 and 2009 DNL Contour Comparison
Figure 6: Differences in Noise Exposure – 2009 versus 2017 DNL Contours

### List of Tables

Table 1: 2017 Daytime and Nighttime Use Percentages	3
Table 2: 2017 Runway Use Percentages – Fixed-Wing Aircraft	4
Table 3: 2017 Runway Use Percentages – Helicopter Touch-and-Go Operations	4
Table 4: 2017 DNL Contour Areas	13
Table 5: DNL Contour Area Comparison	14
Table 6: Aircraft Operations Comparison with Nighttime-Weighted Operations	14
Table 7: Overall Runway Use Comparison	15

**This Page Intentionally Blank**

# MIAMI EXECUTIVE AIRPORT

---

## 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 Executive Airport (TMB). 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 TMB 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 TMB personnel. The ANOMS data included specific detailed information about the operation of the airport helpful in developing the TMB 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 TMB 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 TMB. The ANOMS system recorded a total of 180,340 operations in 2017 while the FAA's OPSNET data, which reflect operations counts collected by TMB air traffic controllers, reported 297,403 operations at TMB 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 TMB air traffic controllers reflect the hours in which the tower is in operation. The tower operating hours at TMB are between 7 AM and 11 PM local time. The ANOMS system recorded 2,912 operations between the hours of 11 PM and 7 AM. Therefore, the total operation count used for this noise contour development was adjusted to 300,315 (the sum of 297,403 and 2,912) to include the activity during periods when the tower was closed. This equates to an average of approximately 822 daily operations at TMB 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 124,900 operations with incomplete aircraft type information.

The number of aircraft operations with detailed data available for the noise contour development was therefore 55,440. While this value is far less than the total 2017 aircraft operation count (300,315), the ANOMS destination and fleet data were prorated to the 297,403 operations reflected in the FAA’s OPSNET database plus the 2,912 operations during hours when the tower is closed.

### 3.0 Aircraft Fleet Mix

For the 55,440 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-7** 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 (TMB) 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 39 ANOMS aircraft departures recorded without destination information. Specific research on destinations flown by individual aircraft was analyzed and applied to the 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 TMB 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, TMB has a day-night use percentage of approximately 98 percent day and 2 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>	95,536	1,684	95,536	1,684	104,040	1,834	300,315
<b>Percentage</b>	98%	2%	98%	2%	98%	2%	

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 TMB most commonly operates day and night in an east flow condition utilizing Runways 09L and 09R, 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. Runway 09R has the highest percentage of runway operations at approximately 50 percent and is heavily used during the nighttime hours.

**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	15.3%	8.0%	36.9%	16.1%	43.8%	21.2%	32.5%
27R	4.9%	3.1%	4.2%	2.6%	4.6%	2.9%	4.5%
09R	63.4%	73.4%	42.9%	58.9%	36.9%	56.0%	47.3%
27L	14.4%	13.8%	13.3%	20.0%	11.6%	17.9%	13.1%
13	1.5%	1.5%	1.9%	1.6%	2.2%	1.4%	1.9%
31	0.5%	0.1%	0.8%	0.8%	0.8%	0.6%	0.7%
<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. TMB has several fixed base operators (FBOs) and hangars along each runway. For this reason, runway use percentages by aircraft type were also determined and used to develop the TMB 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** for touch-and-go operations.

Helicopters conducting touch-and-go operations were modeled as arrivals and departures as required by AEDT. It was assumed that the runway use for helicopter touch-and-go operations was similar to departure runway use for small aircraft operations. Due to a lack of detailed information, the helicopter touch-and-go runway use was assumed to be the same as Cessna 150 departure runway use. **Table 3** presents helicopter touch-and-go runway use.

**TABLE 3**  
**2017 RUNWAY USE PERCENTAGES – HELICOPTER TOUCH-AND-GO OPERATIONS**

Runway	Touch-and-Go		Total Rwy Use Percentage
	Day	Night	
09L	37.0%	18.2%	36.7%
27R	1.6%	4.5%	1.7%
09R	43.7%	63.6%	44.0%
27L	13.8%	13.6%	13.8%
13	3.1%	0.0%	3.1%
31	0.7%	0.0%	0.7%
<b>Total</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.

Note that helicopter takeoff and landing locations were consolidated to one location at Miami-Dade Fire Rescue Air Rescue 24 based on information provided by airport personnel. All helicopter takeoff and landing activity was assigned to this location, labeled as H1 throughout **Appendix A**.

## 7.0 Flight Track and Flight Track 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 TMB for the calendar year 2017.

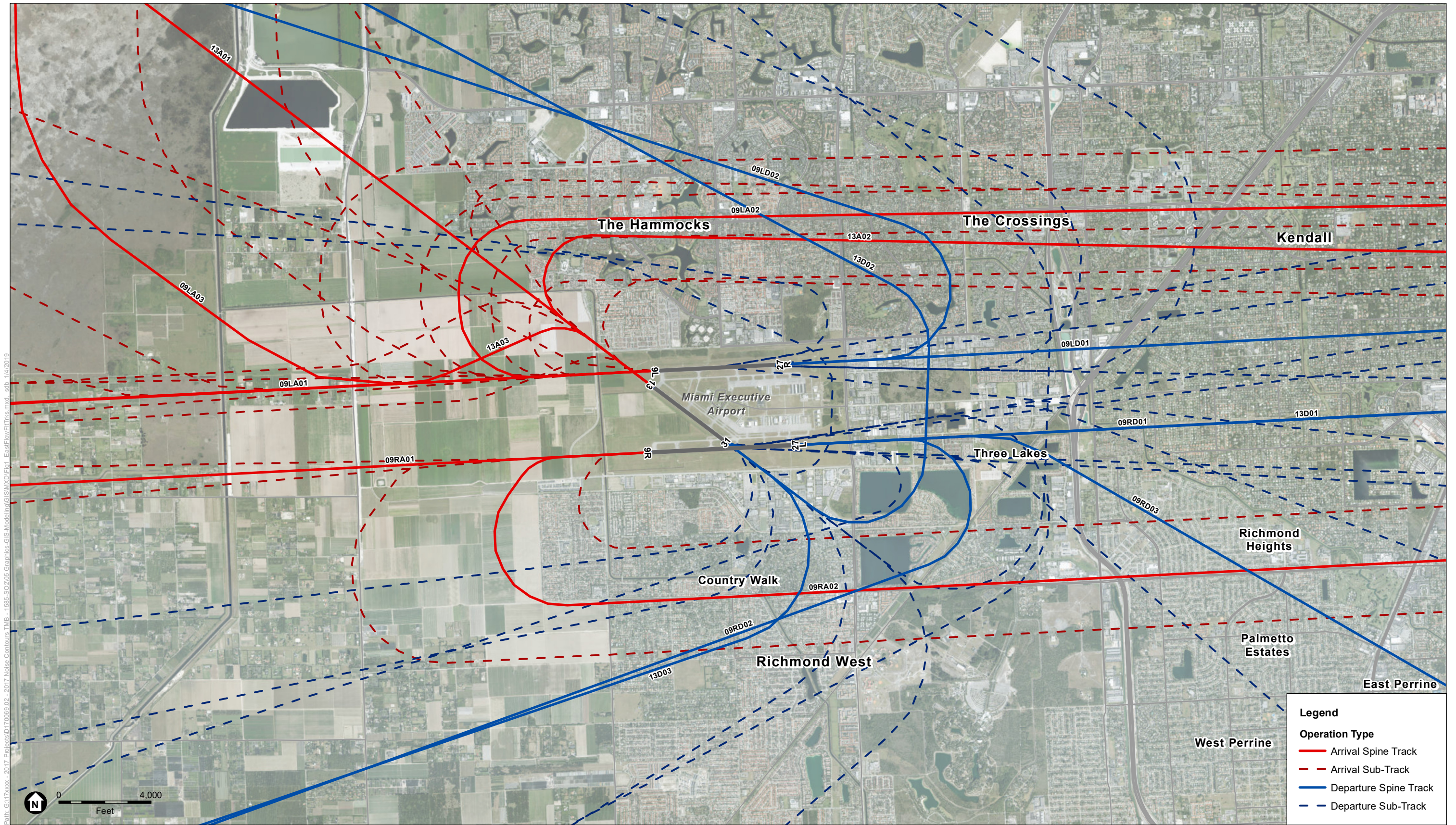
The flight track use percentages are provided by runway end in **Appendix A-8**. Dispersion of aircraft operations across sub-tracks is presented in **Appendix A-9**. The flight track locations are depicted on **Figures 1, 2, and 3**.

It should be noted that the commercial jet aircraft and larger general aviation jet 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 larger jets would not make sharp turns before landing or after take-off. These large jets comprise 0.54% of the operations at TMB. Below is the list of AEDT airframes assigned to straight-in and straight-out flight tracks.

Airbus A319-100 Series	Boeing 777-200 Series
Airbus A320-200 Series	Boeing DC-10-30 Series
Airbus A321-200 Series	Boeing MD-11
Airbus A330-200 Series	Boeing MD-82
Airbus A330-300 Series	Boeing MD-83
Airbus A380-800 Series/Trent 970	Boeing MD-88
Boeing 717-200 Series	Boeing MD-90
Boeing 727-200 Series	Bombardier CRJ-200
Boeing 737-300 Series	Bombardier CRJ-700
Boeing 737-400 Series	Bombardier Global 5000 Business
Boeing 737-500 Series	Bombardier Global Express
Boeing 737-700 Series	Embraer ERJ135
Boeing 737-800 Series	Embraer ERJ145
Boeing 737-900 Series	Embraer ERJ170
Boeing 757-200 Series	Embraer ERJ175
Boeing 767-200 Series	Embraer ERJ190
Boeing 767-300 Series	Embraer Legacy

**This Page Intentionally Blank**





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

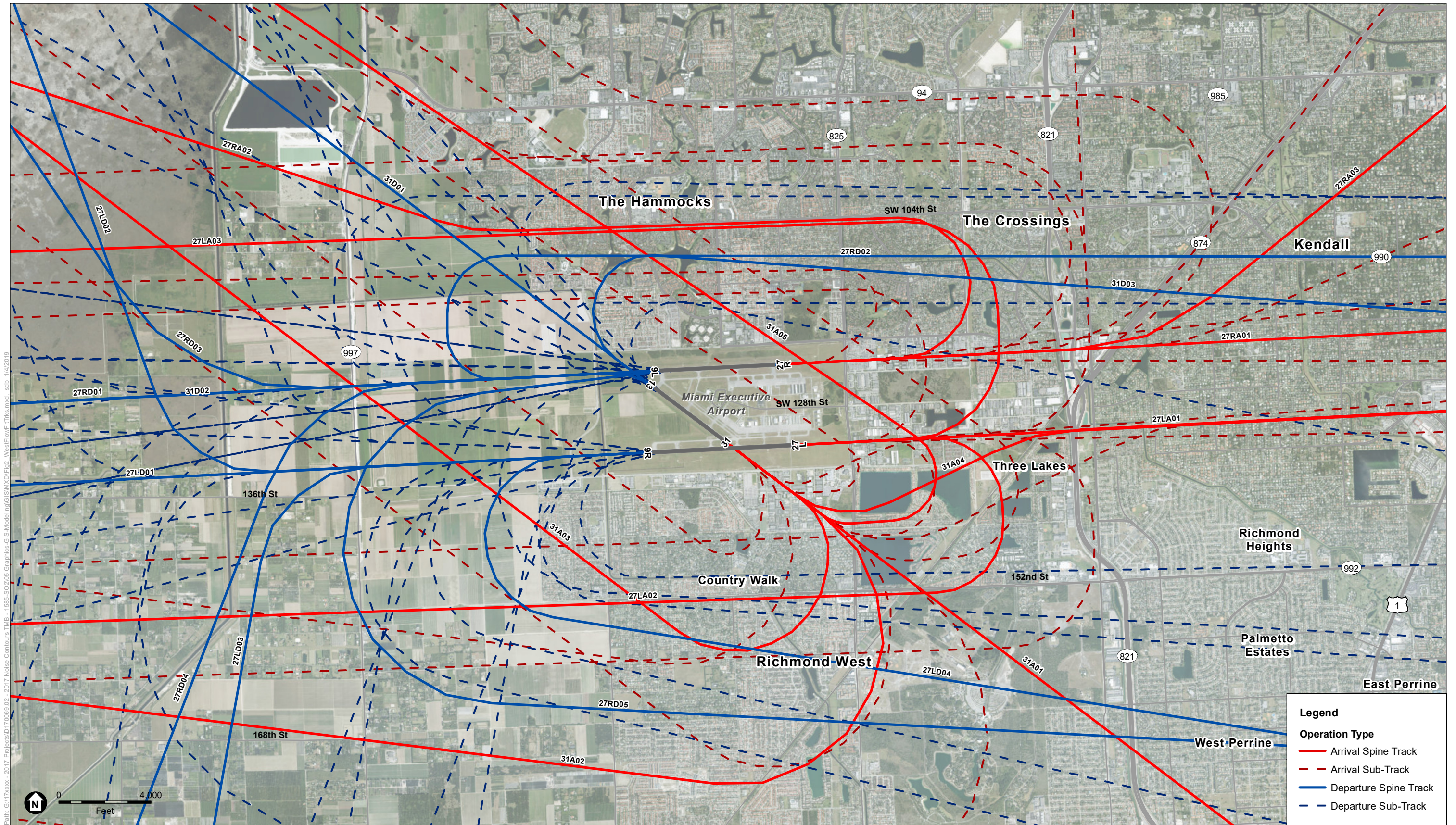
Miami Executive Airport 2017 Noise Contour Development - D170069.02

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



**This Page Intentionally Blank**





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

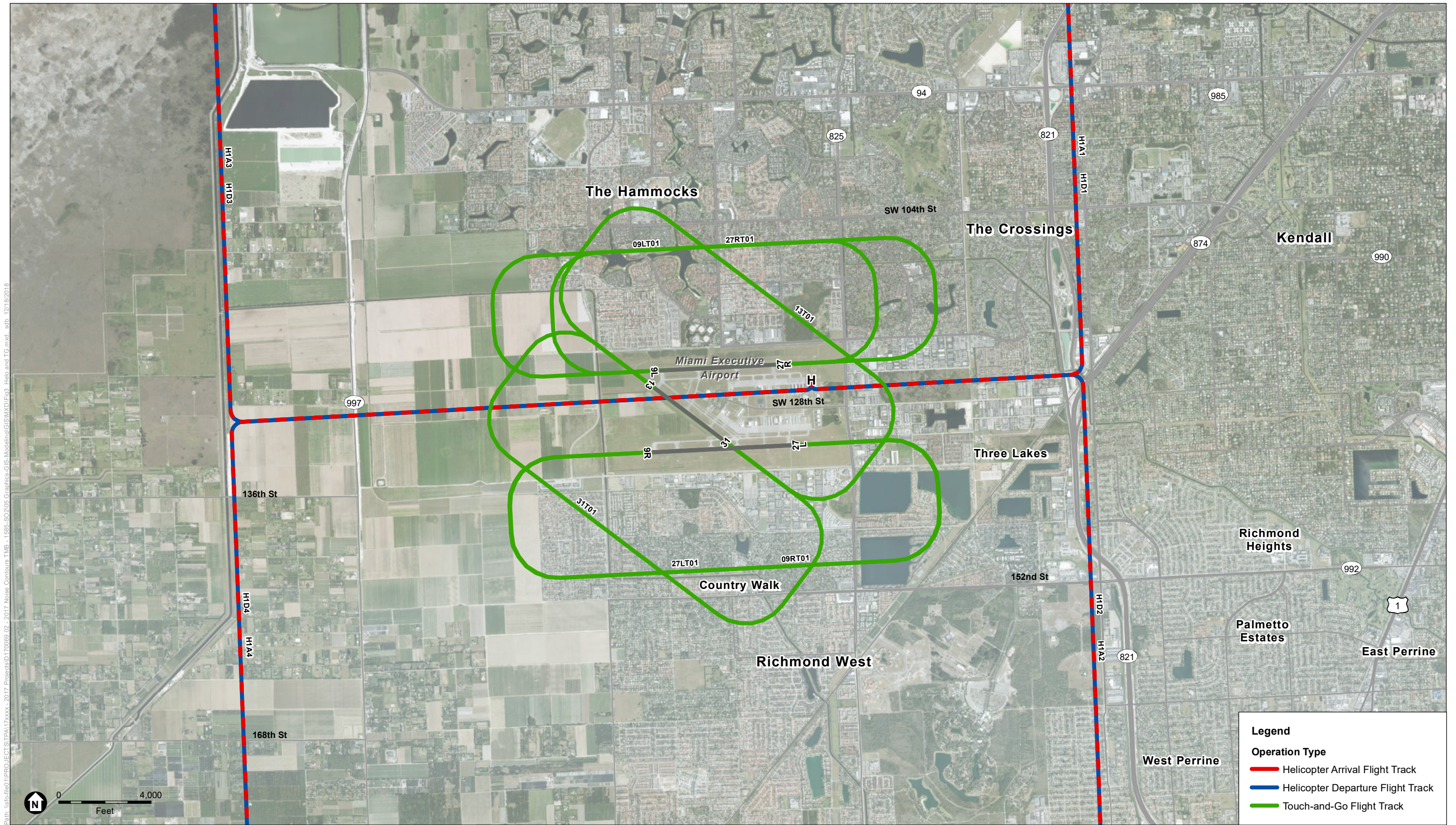
Miami Executive Airport 2017 Noise Contour Development - D170069.02

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



**This Page Intentionally Blank**





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

Miami Executive Airport 2017 Noise Contour Development . D170069.02

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



**This Page Intentionally Blank**

## 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 TMB noise contours for DNL 65, 70, and 75 dB are shown in **Figure 4**. These contours represent the noise exposure to areas surrounding TMB on an average annual day. The overall shape of the noise contours reflects the east and west orientation of the runways at TMB. The areas of the contours in square miles are shown in **Table 4**. Each contour area is inclusive of the subsequent contour areas. Therefore, the cumulative footprint of all three contours is approximately 0.75 square miles.

**TABLE 4**  
**2017 DNL CONTOUR AREAS**

DNL	Contour Area (Square Miles)
65 and greater	0.75
70 and greater	0.33
75 and greater	0.15

SOURCE: AEDT 2d; ESA, 2018.

As stated previously, TMB 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 2009 versus 2017 DNL Noise 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 TMB 2009 DNL contours were produced with AEDT 2b SP3 and the 2017 DNL contours were produced with AEDT 2d, every effort was made to ensure that the differences in models did not unduly influence the contour shapes.

A comparison of the TMB 2009 and 2017 DNL contours is shown in **Figure 5**. Noise exposure areas of increase and decrease between the TMB 2009 and 2017 DNL contours are depicted in **Figure 6**. **Table 5** compares the area coverage of 2009 and 2017 contours.

**TABLE 5**  
**DNL CONTOUR AREA COMPARISON**

DNL	DNL Contour Area (Square Miles)		
	2009 Contour Area	2017 Contour Area	Difference
<b>65 and greater</b>	0.74	0.42	-0.32
<b>70 and greater</b>	0.32	0.18	-0.14
<b>75 and greater</b>	0.26	0.15	-0.11

SOURCE: INM 7.0a; AEDT 2d; ESA, 2009; ESA, 2018.

As presented in Table 4, the 2017 DNL contours are generally smaller than the 2009 DNL contours. There are several reasons for this difference. The total operation numbers are 316,106 in 2009 and 300,315 in 2017. It should be noted that the difference of 15,791 operations would not reasonably cause the difference in contour size presented in Figure 5. As described in Section 5.0 of this report, one nighttime operation is counted as 10 daytime operations for the DNL calculation. **Table 6** compares the aircraft operations translated to the nighttime-weighted operations, which were calculated by multiplying the nighttime operation count by 10.

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

Year	Day	Night	Total
Raw Operation Numbers			
<b>2017</b>	295,112	5,203	300,315
<b>2009</b>	308,346	7,760	316,106
<b>Difference</b>	-13,234	-2,557	-15,791
Operation Numbers with DNL Weighting			
<b>2017</b>	295,112	52,030	347,142
<b>2009</b>	308,346	77,600	385,946
<b>Difference</b>	-13,234	-25,570	-38,804

SOURCE: MDAD ANOMS Data, 2017; FAA OPSNET Data, 2017; ESA, 2009; ESA, 2018

The weighted total operation count in 2017 was 38,804 fewer operations than the 2009 count. In addition to the overall daytime and nighttime operation count comparison, there were 1,570 jet aircraft nighttime operations in 2009 while 421 jet aircraft nighttime operations occurred in 2017. Those significant decreases in nighttime operations from 2009 to 2017 generally explain the smaller-size noise contours in 2017. Additionally, the westward extension of the Runway 10R approach end between 2009 and 2017 shifts the start of takeoff roll for east flow departures to the west. This results in an increase in noise at some locations on the airport and a shift of the east flow departure noise contours to the west.



**Table 7** compares overall runway use between 2009 and 2017. As depicted in the table, the use of Runway 09R/27L increased in 2017, while the use of Runway 13/31 decreased. However, the overall runway use has not changed significantly from the year 2009.

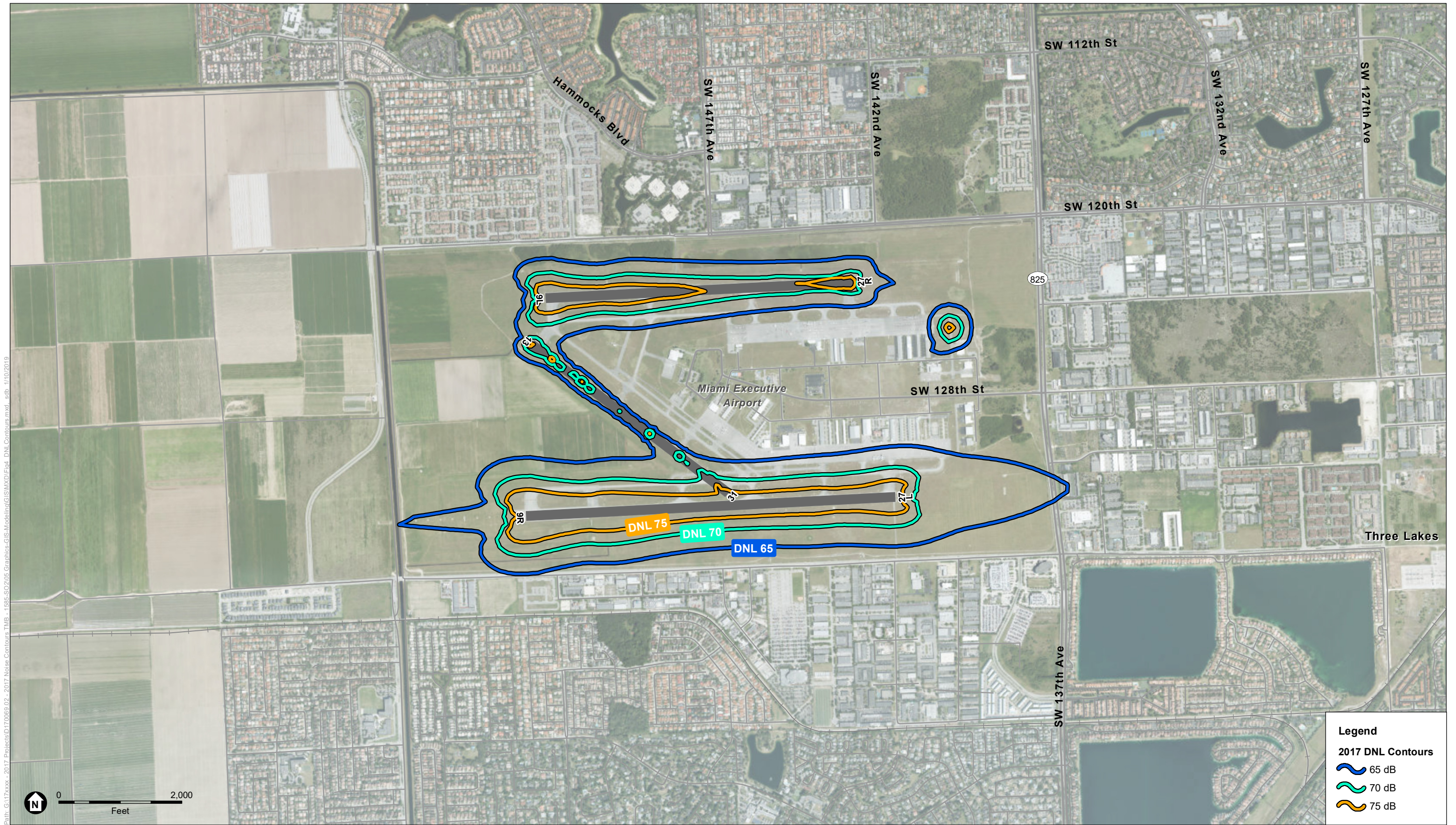
**TABLE 7**  
**OVERALL RUNWAY USE COMPARISON**

Runway	2009	2017	Difference
09L	31.9%	32.5%	+0.6%
27R	6.1%	4.5%	-1.6%
09R	42.0%	47.3%	+5.3%
27L	11.5%	13.1%	+1.6%
13	5.2%	1.9%	-3.3%
31	3.3%	0.7%	-2.6%
<b>Total</b>	<b>100.0%</b>	<b>100.00%</b>	

SOURCE: MDAD ANOMS Data, 2017; FAA OPSNET Data, 2017; ESA, 2009; ESA, 2018

**This Page Intentionally Blank**





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

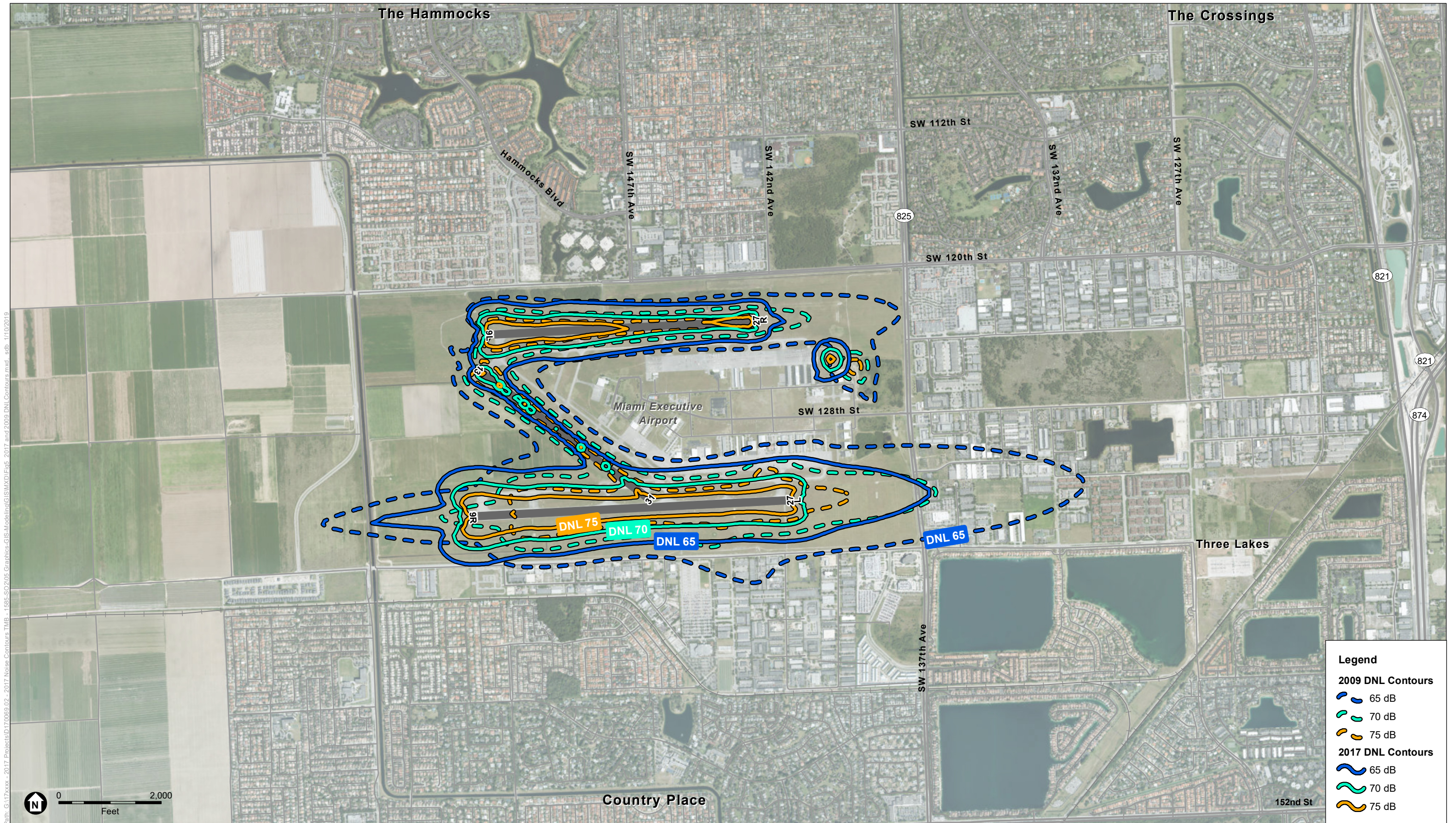
Miami Executive Airport 2017 Noise Contour Development . D170069.02

**Figure 4**  
 2017 DNL Contours  
 Miami Executive Airport



**This Page Intentionally Blank**





Path: G:\17xxxx - 2017 Projects\170069.02 - 2017 Noise Contours TMB - 1585-SC2\05 Graphics-GIS\Modelling\GIS\MXD\Fig5 - 2017 and 2009 DNL Contours.mxd, edb, 11/02/2019

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

Miami Executive Airport 2017 Noise Contour Development . D170069.02

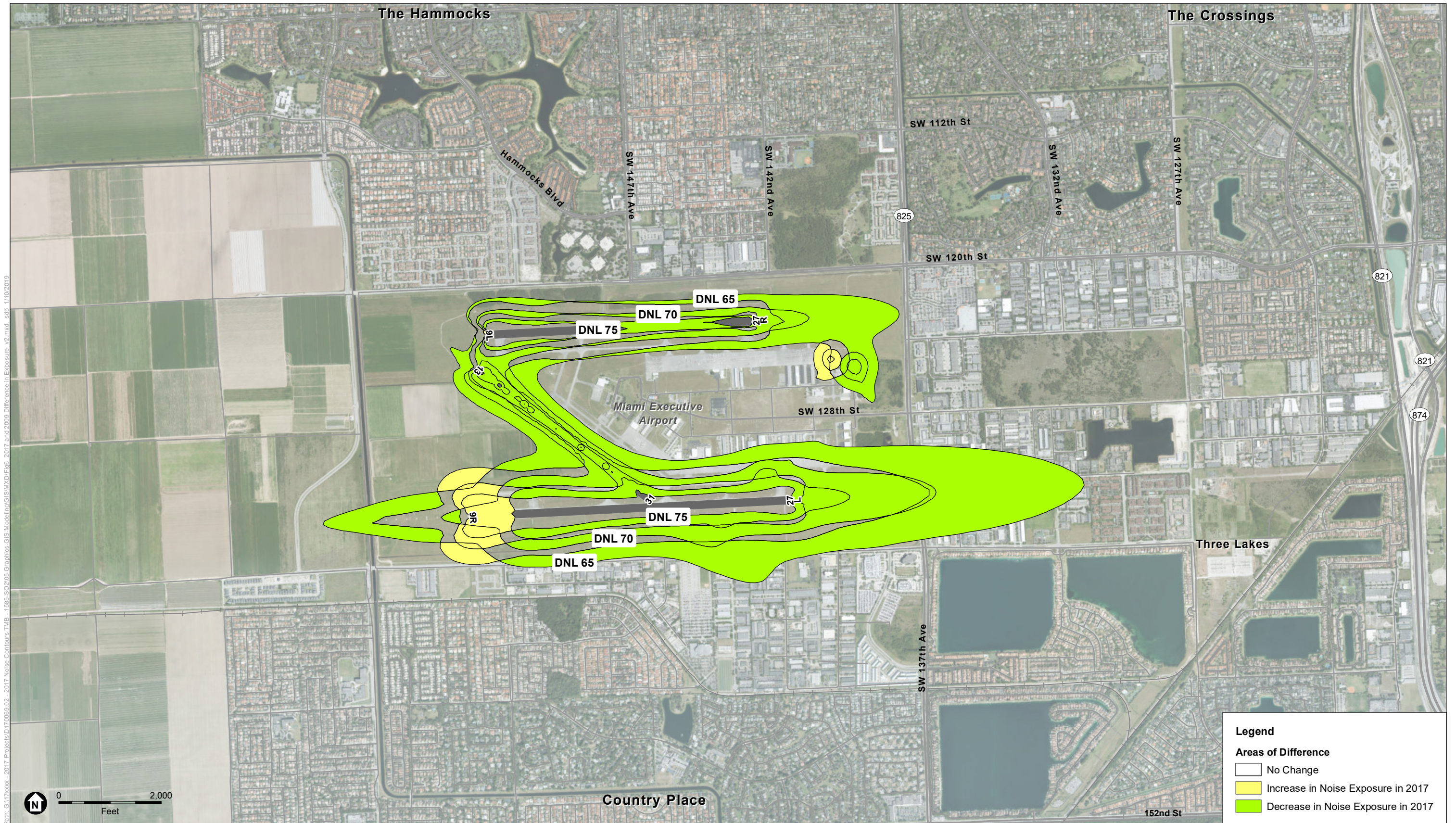
**Figure 5**  
 2017 and 2009 DNL Contour Comparison  
 Miami Executive Airport





**This Page Intentionally Blank**





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

Miami Executive Airport 2017 Noise Contour Development . D170069.02

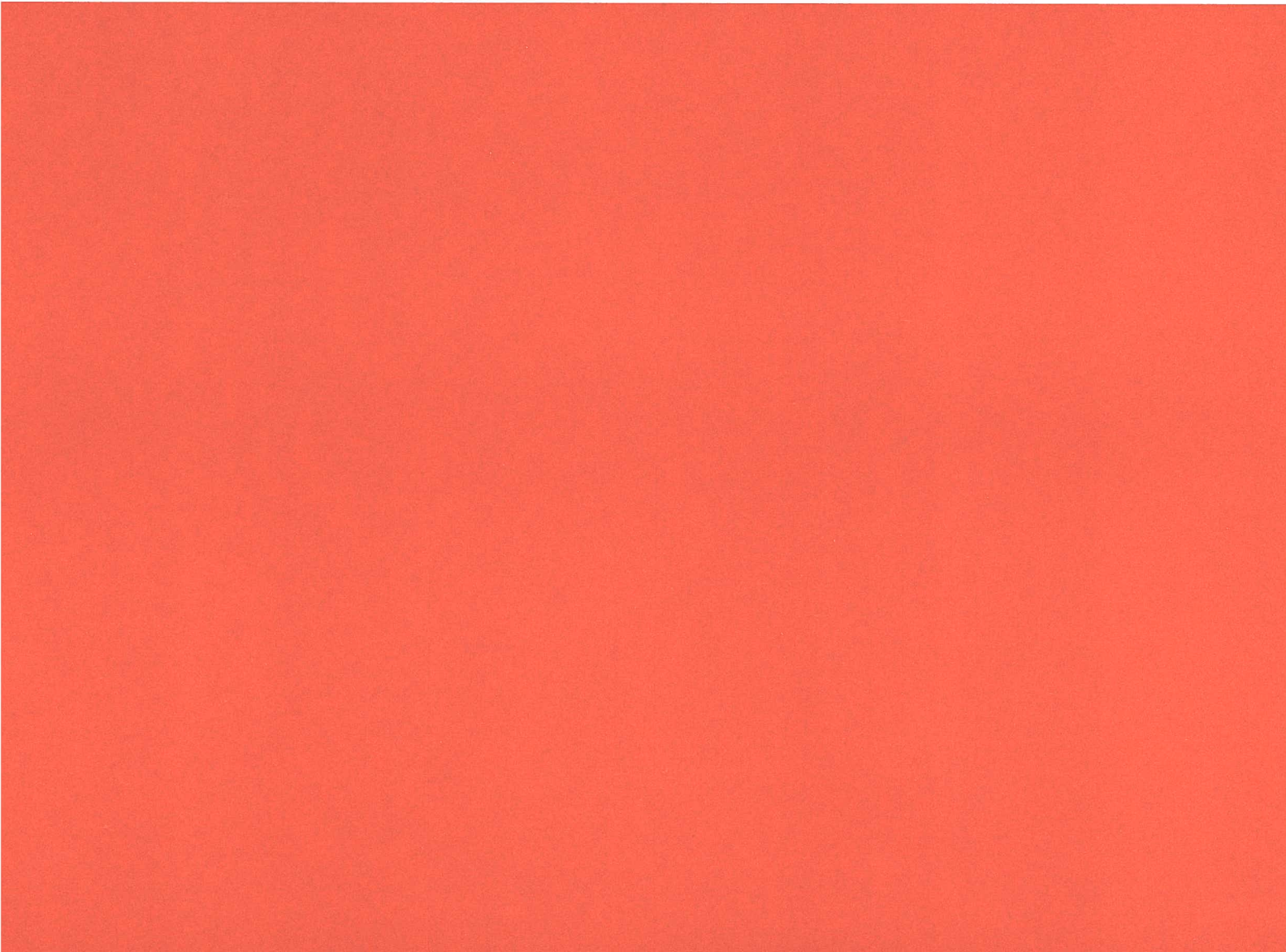
**Figure 6**  
 Differences in Noise Exposure - 2009 versus 2017 DNL Contours  
 Miami Executive Airport





**This Page Intentionally Blank**





## **APPENDIX A**

### Operations Information

---

**This Page Intentionally Blank**

# 2017 TMB NOISE CONTOUR UPDATE

---

- 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 Day and Night Touch-and-Go Runway Use Percentages
- Appendix A-8 2017 Flight Track Utilization
- Appendix A-9 2017 Flight Track Dispersion Percentages

## **APPENDIX A-1**

# 2017 Total Operations and Stage Length Percentages

---

## 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	
1985 1-ENG COMP	TIO540	NONE	1025.9	100.00%	0.00%	0.00%	0.00%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	203.8	100.00%	0.00%	0.00%	0.00%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	18.2	100.00%	0.00%	0.00%	0.00%	100.00%
Aerostar PA-60	TIO540	NONE	133.8	100.00%	0.00%	0.00%	0.00%	100.00%
Agusta A-109	250B17	NONE	140.3	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A319-100 Series	1CM008	NONE	48.9	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A320-200 Series	1IA001	NONE	102.7	70.21%	5.96%	11.92%	11.92%	100.00%
Airbus A321-200 Series	1CM008	NONE	46.2	73.80%	0.00%	0.00%	26.20%	100.00%
Airbus A330-200 Series	3GE057	NONE	4.2	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-300 Series	3GE057	NONE	1.0	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	3.3	0.00%	100.00%	0.00%	0.00%	100.00%
ATR 42-600	BIZHEAVYPROP_F	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Aviat Husky A1B	IO360	NONE	39.1	100.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 31	TPE10	NONE	13.0	100.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 32	TPE12	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 41	TPE14	NONE	29.4	100.00%	0.00%	0.00%	0.00%	100.00%
BEECH MENTOR (BE45) PT6A-25	PT6A34	PT6A-25	16.3	100.00%	0.00%	0.00%	0.00%	100.00%
Bell 206 JetRanger	250B17	NONE	8740.7	100.00%	0.00%	0.00%	0.00%	100.00%
Bell 214B-1	T400	NONE	6537.0	100.00%	0.00%	0.00%	0.00%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	143.2	100.00%	0.00%	0.00%	0.00%	100.00%
Bell 430	250B17	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 717-200 Series	4BR002	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 727-200 Series	1PW009	BFG	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-300 Series	CFM563	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-400 Series	CFM563	NONE	13.0	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-500 Series	8GE107	NONE	3.3	100.00%	0.00%	0.00%	0.00%	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	
Boeing 737-700 Series	1CM007	NONE	26.1	66.67%	0.00%	0.00%	33.33%	100.00%
Boeing 737-800 Series	1CM007	NONE	135.7	85.92%	4.69%	0.00%	9.39%	100.00%
Boeing 737-900 Series	3CM029	NONE	22.8	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 757-200 Series	4PW072	NONE	17.3	37.03%	31.48%	31.48%	0.00%	100.00%
Boeing 767-200 Series	1GE010	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-300 Series	1GE012	NONE	39.1	90.00%	10.00%	0.00%	0.00%	100.00%
Boeing 777-200 Series	7GE097	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing CH-46 Sea Knight	T588F	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-10-30 Series	3GE069	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3	R1820	R1820-86	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	13.0	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-11	1GE020	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-82	1PW017	NONE	16.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-83	4PW071	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-88	1PW017	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-90	1IA004	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing Stearman PT-17 / A75N1	TIO540	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Boelkow BO-105	250B17	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 300	8HN001	NONE	850.7	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 350	14HN009	NONE	234.9	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 600	1GE034	NONE	759.5	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-100	1GE035	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-200	1GE035	NONE	91.9	38.33%	61.67%	0.00%	0.00%	100.00%
Bombardier CRJ-700	5GE084	NONE	32.6	0.00%	100.00%	0.00%	0.00%	100.00%
Bombardier Global 5000 Business	4BR009	NONE	42.4	66.67%	16.67%	0.00%	16.67%	100.00%
Bombardier Global Express	4BR008	NONE	341.8	36.63%	47.95%	9.64%	5.78%	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	
Bombardier Learjet 31	1AS001	NONE	399.9	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 35	1AS001	NONE	460.7	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	37.8	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	961.6	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 55	1AS002	NONE	195.4	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	1509.1	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	19.6	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	19.6	100.00%	0.00%	0.00%	0.00%	100.00%
Britten-Norman BN-2 Islander	TIO540	NONE	133.8	100.00%	0.00%	0.00%	0.00%	100.00%
CASA C-101 Aviojet	1AS002	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
CASA CN-235-100	CT7-5	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 150 Series	O200	NONE	55694.8	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	95081.9	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 182	IO360	NONE	19094.5	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 206	TIO540	IO-540-AC	2121.1	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 208 Caravan	PT6A14	NONE	3120.9	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 210 Centurion	TIO540	NONE	289.0	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 310	TIO540	NONE	278.3	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 337 Skymaster	IO360	NONE	193.4	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 340	TIO540	NONE	412.6	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 402	TIO540	NONE	156.6	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 404 Titan II	TIO540	NONE	127.2	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 414	TIO540	NONE	208.8	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 421 Golden Eagle	TIO540	NONE	124.0	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 425 Conquest I	PT6112	NONE	55.5	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 441 Conquest II	TPE10	NONE	69.5	100.00%	0.00%	0.00%	0.00%	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	
Cessna 500 Citation I	1PW035	NONE	42.4	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 501 Citation ISP	1PW035	NONE	433.7	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	389.7	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	661.7	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	790.6	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	258.7	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	1577.6	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	1213.8	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	2224.5	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 650 Citation III	TFE731	NONE	311.8	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	709.1	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 750 Citation X	4AL003	NONE	435.8	100.00%	0.00%	0.00%	0.00%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	300.3	100.00%	0.00%	0.00%	0.00%	100.00%
Cirrus SR20	IO360	NONE	513.1	100.00%	0.00%	0.00%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	6716.5	100.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 10	1AS001	NONE	32.6	100.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 2000	CF700D	NONE	1043.5	100.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 20-C	CF700D	NONE	45.3	100.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 50	16PW114	NONE	516.6	100.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 900	TFE731	NONE	855.5	100.00%	0.00%	0.00%	0.00%	100.00%
DEHAVILLAND CARIBOU DHC-4A	NM	PT6A60	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Dornier 328-100 Series	PW119B	NONE	1.0	100.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-10 Tobago	IO360	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-20 Trinidad	TIO540	NONE	156.6	100.00%	0.00%	0.00%	0.00%	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	
EADS Socata TBM-700	PT6A64	NONE	53.2	100.00%	0.00%	0.00%	0.00%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	101.1	53.33%	33.33%	13.33%	0.00%	100.00%
Embraer 505	BIZLIGHTJET_F	NONE	1379.6	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ135	6AL012	NONE	204.8	53.24%	30.56%	12.96%	3.24%	100.00%
Embraer ERJ145	4AL003	NONE	24.8	69.25%	30.75%	0.00%	0.00%	100.00%
Embraer ERJ170	8GE107	NONE	35.9	62.50%	12.50%	25.00%	0.00%	100.00%
Embraer ERJ175	6GE094	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ190	XCF10E	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy	6AL011	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
EPIC LT/Dynasty	PT667A	NONE	48.9	100.00%	0.00%	0.00%	0.00%	100.00%
Eurocopter EC-130	TPE3	NONE	46.6	100.00%	0.00%	0.00%	0.00%	100.00%
Eurocopter EC-155B1	T400	NONE	156.6	100.00%	0.00%	0.00%	0.00%	100.00%
Fairchild SA-226-T Merlin III	TPE10	NONE	65.2	100.00%	0.00%	0.00%	0.00%	100.00%
Falcon 7X	7CM045	NONE	282.7	100.00%	0.00%	0.00%	0.00%	100.00%
Grumman G-73 Mallard	TIO540	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	115.1	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G200	7PW077	NONE	282.7	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G280	11HN005	NONE	28.0	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G300	F1131	NONE	60.6	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G600	16PW116	NONE	91.0	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream IV-SP	6RR042	NONE	451.1	100.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream V-SP	3BR001	NONE	249.5	100.00%	0.00%	0.00%	0.00%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	658.2	100.00%	0.00%	0.00%	0.00%	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	
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	2499.3	100.00%	0.00%	0.00%	0.00%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	19.6	100.00%	0.00%	0.00%	0.00%	100.00%
Hughes 500D	250B17	NONE	49.9	100.00%	0.00%	0.00%	0.00%	100.00%
Israel IAI-1124 Westwind I	1AS002	NONE	65.2	100.00%	0.00%	0.00%	0.00%	100.00%
Israel IAI-1125 Astra	TFE731	NONE	193.0	100.00%	0.00%	0.00%	0.00%	100.00%
Lancair 360	IO360	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Maule MT-7-235	TIO540	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
McDonnell Douglas 600N	TPE6	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-2	TPE1	NONE	20.5	100.00%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	13.0	100.00%	0.00%	0.00%	0.00%	100.00%
Mooney M20-K	TSIO36	NONE	947.6	100.00%	0.00%	0.00%	0.00%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	2430.4	100.00%	0.00%	0.00%	0.00%	100.00%
Partenavia P.68 Victor	IO360	NONE	1063.1	100.00%	0.00%	0.00%	0.00%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	71.8	100.00%	0.00%	0.00%	0.00%	100.00%
Pilatus PC-12	PT6A67	NONE	857.8	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	892.3	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-24 Comanche	TIO540	NONE	70.4	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	22892.9	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	2596.8	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-31 Navajo	TIO540	NONE	2602.6	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	342.2	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	2693.1	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-34 Seneca	IO360	NONE	11517.0	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	68.5	100.00%	0.00%	0.00%	0.00%	100.00%
Piper PA46-TP Meridian	PT6A42	NONE	773.4	100.00%	0.00%	0.00%	0.00%	100.00%
Quest Kodiak 100	PT6A34	NONE	270.8	100.00%	0.00%	0.00%	0.00%	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	
Raytheon Beech 18	R1820	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	285.7	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	9.8	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	8939.1	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	6299.7	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	1342.3	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 1000	7PW078	NONE	13.0	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	71.8	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	10.7	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 100	PT6A28	NONE	75.0	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 90	P6135A	NONE	2238.9	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	208.8	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	1060.4	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 300	P660AG	NONE	546.3	100.00%	0.00%	0.00%	0.00%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Robinson R22B	IO320	NONE	206.5	100.00%	0.00%	0.00%	0.00%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	555.2	100.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 500	TIO540	NONE	62.0	100.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 680	TIO540	NONE	6.5	100.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 690	TPE1	NONE	399.0	100.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	39.1	100.00%	0.00%	0.00%	0.00%	100.00%
Ryan Navion B	TIO540	NONE	35.9	100.00%	0.00%	0.00%	0.00%	100.00%
Saab 340-A	CT7-5	NONE	35.9	50.00%	50.00%	0.00%	0.00%	100.00%
Schweizer S269D/330	T63A5A	NONE	3.3	100.00%	0.00%	0.00%	0.00%	100.00%
Shorts 360-300 Series	PT6A6A	PT6A-45AR	19.6	100.00%	0.00%	0.00%	0.00%	100.00%
Sikorsky S-76 Spirit	T70070	NONE	348.7	100.00%	0.00%	0.00%	0.00%	100.00%

**2017 Total Operations and Stage Length Percentages**

AEDT Airframe	Engine Code	Engine Mod Code	Total	Departure Stage Length Percentage				Grand Total
			Operations	1	2	3	4	
Sikorsky SH-3 Sea King	T585	NONE	16.3	100.00%	0.00%	0.00%	0.00%	100.00%
SOCATA TBM 850	PT6A66	NONE	106.3	100.00%	0.00%	0.00%	0.00%	100.00%
<b>Grand Total</b>			300,315.0					

## **APPENDIX A-2**

# 2017 Operations Time of Day Percentages

---

## 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	99.53%	0.47%	100.00%	99.53%	0.47%	100.00%			
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	97.65%	2.35%	100.00%	97.65%	2.35%	100.00%			
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	89.49%	10.51%	100.00%	89.49%	10.51%	100.00%			
Aerostar PA-60	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Agusta A-109	250B17	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Airbus A319-100 Series	1CM008	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Airbus A320-200 Series	1IA001	NONE	95.33%	4.67%	100.00%	95.33%	4.67%	100.00%			
Airbus A321-200 Series	1CM008	NONE	91.71%	8.29%	100.00%	91.71%	8.29%	100.00%			
Airbus A330-200 Series	3GE057	NONE	77.30%	22.70%	100.00%	77.30%	22.70%	100.00%			
Airbus A330-300 Series	3GE057	NONE	0.00%	100.00%	100.00%	0.00%	100.00%	100.00%			
Airbus A380-800 Series/Trent 970	6GE087	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
ATR 42-600	BIZHEAVYPROP_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Aviat Husky A1B	IO360	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
BAE Jetstream 31	TPE10	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
BAE Jetstream 32	TPE12	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
BAE Jetstream 41	TPE14	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%		
Bell 206 JetRanger	250B17	NONE	94.00%	6.00%	100.00%	94.00%	6.00%	100.00%			
Bell 214B-1	T400	NONE	96.50%	3.50%	100.00%	96.50%	3.50%	100.00%			
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	97.99%	2.01%	100.00%	97.99%	2.01%	100.00%			
Bell 430	250B17	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 717-200 Series	4BR002	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 727-200 Series	1PW009	BFG	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 737-300 Series	CFM563	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			

## 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 737-400 Series	CFM563	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 737-500 Series	8GE107	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 737-700 Series	1CM007	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 737-800 Series	1CM007	NONE	98.59%	1.41%	100.00%	98.59%	1.41%	100.00%			
Boeing 737-900 Series	3CM029	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 757-200 Series	4PW072	NONE	94.45%	5.55%	100.00%	94.45%	5.55%	100.00%			
Boeing 767-200 Series	1GE010	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 767-300 Series	1GE012	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing 777-200 Series	7GE097	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing CH-46 Sea Knight	T588F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing DC-10-30 Series	3GE069	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing DC-3	R1820	R1820-86	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing MD-11	1GE020	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing MD-82	1PW017	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing MD-83	4PW071	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing MD-88	1PW017	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing MD-90	1IA004	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boeing Stearman PT-17 / A75N1	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Boelkow BO-105	250B17	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Bombardier Challenger 300	8HN001	NONE	99.32%	0.68%	100.00%	99.32%	0.68%	100.00%			
Bombardier Challenger 350	14HN009	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Bombardier Challenger 600	1GE034	NONE	98.36%	1.64%	100.00%	98.36%	1.64%	100.00%			
Bombardier CRJ-100	1GE035	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			



## 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 CRJ-200	1GE035	NONE	95.83%	4.17%	100.00%	95.83%	4.17%	100.00%			
Bombardier CRJ-700	5GE084	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Bombardier Global 5000 Business	4BR009	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Bombardier Global Express	4BR008	NONE	98.32%	1.68%	100.00%	98.32%	1.68%	100.00%			
Bombardier Learjet 31	1AS001	NONE	99.52%	0.48%	100.00%	99.52%	0.48%	100.00%			
Bombardier Learjet 35	1AS001	NONE	97.71%	2.29%	100.00%	97.71%	2.29%	100.00%			
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	94.93%	5.07%	100.00%	94.93%	5.07%	100.00%			
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	97.71%	2.29%	100.00%	97.71%	2.29%	100.00%			
Bombardier Learjet 55	1AS002	NONE	98.53%	1.47%	100.00%	98.53%	1.47%	100.00%			
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	97.71%	2.29%	100.00%	97.71%	2.29%	100.00%			
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Britten-Norman BN-2 Islander	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
CASA C-101 Aviojet	1AS002	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
CASA CN-235-100	CT7-5	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 150 Series	O200	NONE	98.85%	1.15%	100.00%	98.85%	1.15%	100.00%	98.27%	1.73%	100.00%
Cessna 172 Skyhawk	IO320	NONE	97.93%	2.07%	100.00%	97.93%	2.07%	100.00%	98.27%	1.73%	100.00%
Cessna 182	IO360	NONE	99.22%	0.78%	100.00%	99.22%	0.78%	100.00%	98.27%	1.73%	100.00%
Cessna 206	TIO540	IO-540-AC	99.05%	0.95%	100.00%	99.05%	0.95%	100.00%			
Cessna 208 Caravan	PT6A14	NONE	99.72%	0.28%	100.00%	99.72%	0.28%	100.00%			
Cessna 210 Centurion	TIO540	NONE	99.34%	0.66%	100.00%	99.34%	0.66%	100.00%			
Cessna 310	TIO540	NONE	99.66%	0.34%	100.00%	99.66%	0.34%	100.00%			
Cessna 337 Skymaster	IO360	NONE	99.50%	0.50%	100.00%	99.50%	0.50%	100.00%			
Cessna 340	TIO540	NONE	98.84%	1.16%	100.00%	98.84%	1.16%	100.00%			

## 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
Cessna 402	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 404 Titan II	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 414	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 421 Golden Eagle	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 425 Conquest I	PT6112	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 441 Conquest II	TPE10	NONE	98.62%	1.38%	100.00%	98.62%	1.38%	100.00%			
Cessna 500 Citation I	1PW035	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Cessna 501 Citation ISP	1PW035	NONE	97.79%	2.21%	100.00%	97.79%	2.21%	100.00%			
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	98.77%	1.23%	100.00%	98.77%	1.23%	100.00%			
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	98.12%	1.88%	100.00%	98.12%	1.88%	100.00%			
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	99.03%	0.97%	100.00%	99.03%	0.97%	100.00%			
Cessna 525C CitationJet	BIZLIGHTJET	NONE	99.63%	0.37%	100.00%	99.63%	0.37%	100.00%			
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	98.85%	1.15%	100.00%	98.85%	1.15%	100.00%			
Cessna 560 Citation Excel	1PW037	NONE	99.45%	0.55%	100.00%	99.45%	0.55%	100.00%			
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	99.14%	0.86%	100.00%	99.14%	0.86%	100.00%			
Cessna 650 Citation III	TFE731	NONE	99.39%	0.61%	100.00%	99.39%	0.61%	100.00%			
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	98.92%	1.08%	100.00%	98.92%	1.08%	100.00%			
Cessna 750 Citation X	4AL003	NONE	99.56%	0.44%	100.00%	99.56%	0.44%	100.00%			
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	97.77%	2.23%	100.00%	97.77%	2.23%	100.00%			
Cirrus SR20	IO360	NONE	99.81%	0.19%	100.00%	99.81%	0.19%	100.00%			
Cirrus SR22	TIO540	NONE	99.02%	0.98%	100.00%	99.02%	0.98%	100.00%	98.27%	1.73%	100.00%
Dassault Falcon 10	1AS001	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Dassault Falcon 2000	CF700D	NONE	98.16%	1.84%	100.00%	98.16%	1.84%	100.00%			
Dassault Falcon 20-C	CF700D	NONE	93.65%	6.35%	100.00%	93.65%	6.35%	100.00%			

## 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 50	16PW114	NONE	98.52%	1.48%	100.00%	98.52%	1.48%	100.00%			
Dassault Falcon 900	TFE731	NONE	98.77%	1.23%	100.00%	98.77%	1.23%	100.00%			
DEHAVILLAND CARIBOU DHC-4A	NM PT6A60	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Dornier 328-100 Series	PW119B	NONE	0.00%	100.00%	100.00%	0.00%	100.00%	100.00%			
EADS Socata TB-10 Tobago	IO360	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
EADS Socata TB-20 Trinidad	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
EADS Socata TBM-700	PT6A64	NONE	98.20%	1.80%	100.00%	98.20%	1.80%	100.00%			
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer 505	BIZLIGHTJET_F	NONE	98.61%	1.39%	100.00%	98.61%	1.39%	100.00%			
Embraer EMB110 Bandeirante	PT6A27	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer ERJ135	6AL012	NONE	97.19%	2.81%	100.00%	97.19%	2.81%	100.00%			
Embraer ERJ145	4AL003	NONE	92.26%	7.74%	100.00%	92.26%	7.74%	100.00%			
Embraer ERJ170	8GE107	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer ERJ175	6GE094	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer ERJ190	XCF10E	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer Legacy	6AL011	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer Legacy 450 (EMB-545)	14HN007	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Embraer Legacy 500 (EMB-550)	14HN008	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
EPIC LT/Dynasty	PT667A	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Eurocopter EC-130	TPE3	NONE	97.95%	2.05%	100.00%	97.95%	2.05%	100.00%			
Eurocopter EC-155B1	T400	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Fairchild SA-226-T Merlin III	TPE10	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			

## 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
Falcon 7X	7CM045	NONE	96.95%	3.05%	100.00%	96.95%	3.05%	100.00%			
Grumman G-73 Mallard	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Gulfstream G150	BIZMEDIUMJET_F	NONE	99.17%	0.83%	100.00%	99.17%	0.83%	100.00%			
Gulfstream G200	7PW077	NONE	96.95%	3.05%	100.00%	96.95%	3.05%	100.00%			
Gulfstream G280	11HN005	NONE	93.16%	6.84%	100.00%	93.16%	6.84%	100.00%			
Gulfstream G300	F1131	NONE	96.84%	3.16%	100.00%	96.84%	3.16%	100.00%			
Gulfstream G600	16PW116	NONE	96.84%	3.16%	100.00%	96.84%	3.16%	100.00%			
Gulfstream IV-SP	6RR042	NONE	96.18%	3.82%	100.00%	96.18%	3.82%	100.00%			
Gulfstream V-SP	3BR001	NONE	98.08%	1.92%	100.00%	98.08%	1.92%	100.00%			
Hawker HS-125 Series 400	1RR019	NONE	99.13%	0.87%	100.00%	99.13%	0.87%	100.00%			
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	97.51%	2.49%	100.00%	97.51%	2.49%	100.00%			
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Hughes 500D	250B17	NONE	98.08%	1.92%	100.00%	98.08%	1.92%	100.00%			
Israel IAI-1124 Westwind I	1AS002	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Israel IAI-1125 Astra	TFE731	NONE	98.01%	1.99%	100.00%	98.01%	1.99%	100.00%			
Lancair 360	IO360	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Maule MT-7-235	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
McDonnell Douglas 600N	TPE6	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Mitsubishi MU-2	TPE1	NONE	95.33%	4.67%	100.00%	95.33%	4.67%	100.00%			
Mitsubishi MU-300 Diamond	1PW036	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Mooney M20-K	TSIO36	NONE	99.49%	0.51%	100.00%	99.49%	0.51%	100.00%			
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Partenavia P.68 Victor	IO360	NONE	99.73%	0.27%	100.00%	99.73%	0.27%	100.00%			
Piaggio P.180 Avanti	PT6A60	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			

## 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
Pilatus PC-12	PT6A67	NONE	98.88%	1.12%	100.00%	98.88%	1.12%	100.00%			
Piper PA-23 Apache/Aztec	TIO540	NONE	98.71%	1.29%	100.00%	98.71%	1.29%	100.00%			
Piper PA-24 Comanche	TIO540	NONE	97.28%	2.72%	100.00%	97.28%	2.72%	100.00%			
Piper PA-28 Cherokee Series	IO320	O-320-D3G	97.67%	2.33%	100.00%	97.67%	2.33%	100.00%	98.27%	1.73%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	98.12%	1.88%	100.00%	98.12%	1.88%	100.00%			
Piper PA-31 Navajo	TIO540	NONE	99.78%	0.22%	100.00%	99.78%	0.22%	100.00%			
Piper PA-31T Cheyenne	PT6A11	NONE	99.16%	0.84%	100.00%	99.16%	0.84%	100.00%			
Piper PA-32 Cherokee Six	TIO540	NONE	99.57%	0.43%	100.00%	99.57%	0.43%	100.00%			
Piper PA-34 Seneca	IO360	NONE	98.19%	1.81%	100.00%	98.19%	1.81%	100.00%	98.27%	1.73%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Piper PA46-TP Meridian	PT6A42	NONE	99.13%	0.87%	100.00%	99.13%	0.87%	100.00%			
Quest Kodiak 100	PT6A34	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon Beech 18	R1820	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon Beech 55 Baron	TIO540	TS10-520-L	99.33%	0.67%	100.00%	99.33%	0.67%	100.00%			
Raytheon Beech 60 Duke	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon Beech Baron 58	TIO540	NONE	98.75%	1.25%	100.00%	98.75%	1.25%	100.00%	98.27%	1.73%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	99.19%	0.81%	100.00%	99.19%	0.81%	100.00%	98.27%	1.73%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	98.43%	1.57%	100.00%	98.43%	1.57%	100.00%			
Raytheon Hawker 1000	7PW078	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon Hawker 4000 Horizon	7PW079	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	91.08%	8.92%	100.00%	91.08%	8.92%	100.00%			
Raytheon King Air 100	PT6A28	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Raytheon King Air 90	P6135A	NONE	99.23%	0.77%	100.00%	99.23%	0.77%	100.00%			
Raytheon Premier I	BIZLIGHTJET_F	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			

## 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
Raytheon Super King Air 200	PT6A40	NONE	99.37%	0.63%	100.00%	99.37%	0.63%	100.00%			
Raytheon Super King Air 300	P660AG	NONE	99.12%	0.88%	100.00%	99.12%	0.88%	100.00%			
Reims-Cessna 406 Caravan II	PT6112	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Robinson R22B	IO320	NONE	99.54%	0.46%	100.00%	99.54%	0.46%	100.00%			
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	99.31%	0.69%	100.00%	99.31%	0.69%	100.00%			
Rockwell Commander 500	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Rockwell Commander 680	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Rockwell Commander 690	TPE1	NONE	99.76%	0.24%	100.00%	99.76%	0.24%	100.00%			
Rockwell Sabreliner 65	1AS002	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Ryan Navion B	TIO540	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Saab 340-A	CT7-5	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Schweizer S269D/330	T63A5A	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Shorts 360-300 Series	PT6A6A	PT6A-45AR	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
Sikorsky S-76 Spirit	T70070	NONE	99.18%	0.82%	100.00%	99.18%	0.82%	100.00%			
Sikorsky SH-3 Sea King	T585	NONE	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%			
SOCATA TBM 850	PT6A66	NONE	98.20%	1.80%	100.00%	98.20%	1.80%	100.00%			
<b>Grand Total</b>			<b>98.27%</b>	<b>1.73%</b>	<b>100.00%</b>	<b>98.27%</b>	<b>1.73%</b>	<b>100.00%</b>	<b>98.27%</b>	<b>1.73%</b>	<b>100.00%</b>

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

---



## 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	56.17%	16.05%	14.81%	5.56%	2.47%	4.94%	0.00%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerostar PA-60	TIO540	NONE	34.78%	0.00%	47.83%	8.70%	4.35%	4.35%	0.00%	100.00%
Agusta A-109	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Airbus A319-100 Series	1CM008	NONE	77.78%	0.00%	22.22%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A320-200 Series	11A001	NONE	25.00%	6.25%	62.50%	6.25%	0.00%	0.00%	0.00%	100.00%
Airbus A321-200 Series	1CM008	NONE	71.43%	0.00%	28.57%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-200 Series	3GE057	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-300 Series	3GE057	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
ATR 42-600	BIZHEAVYPROP_F	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Aviat Husky A1B	IO360	NONE	85.71%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 31	TPE10	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 32	TPE12	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 41	TPE14	NONE	50.00%	25.00%	25.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	66.67%	0.00%	0.00%	33.33%	0.00%	0.00%	100.00%
Bell 206 JetRanger	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 214B-1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 430	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Boeing 717-200 Series	4BR002	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 727-200 Series	1PW009	BFG	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-300 Series	CFM563	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-400 Series	CFM563	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-500 Series	8GE107	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing 737-700 Series	1CM007	NONE	33.33%	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	100.00%
Boeing 737-800 Series	1CM007	NONE	33.33%	9.52%	47.62%	4.76%	0.00%	4.76%	0.00%	100.00%
Boeing 737-900 Series	3CM029	NONE	25.00%	0.00%	50.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Boeing 757-200 Series	4PW072	NONE	66.67%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	100.00%
Boeing 767-200 Series	1GE010	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-300 Series	1GE012	NONE	40.00%	0.00%	20.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Boeing 777-200 Series	7GE097	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing CH-46 Sea Knight	T588F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Boeing DC-10-30 Series	3GE069	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3	R1820	R1820-86	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-11	1GE020	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-82	1PW017	NONE	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-83	4PW071	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-88	1PW017	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-90	1A004	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing Stearman PT-17 / A75N1	TIO540	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boelkow BO-105	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bombardier Challenger 300	8HN001	NONE	2.33%	0.00%	73.64%	23.26%	0.78%	0.00%	0.00%	100.00%
Bombardier Challenger 350	14HN009	NONE	0.00%	0.00%	65.79%	34.21%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 600	1GE034	NONE	2.65%	0.00%	78.76%	18.58%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-100	1GE035	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-200	1GE035	NONE	6.67%	0.00%	73.33%	20.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-700	5GE084	NONE	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Global 5000 Business	4BR009	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Global Express	4BR008	NONE	0.00%	0.00%	74.51%	25.49%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bombardier Learjet 31	1AS001	NONE	3.23%	0.00%	75.81%	20.97%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 35	1AS001	NONE	4.29%	1.43%	74.29%	20.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	0.00%	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	4.20%	1.40%	79.02%	15.38%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 55	1AS002	NONE	3.13%	0.00%	90.63%	6.25%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	1.75%	0.44%	81.58%	16.23%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Britten-Norman BN-2 Islander	TIO540	NONE	42.11%	0.00%	47.37%	10.53%	0.00%	0.00%	0.00%	100.00%
CASA C-101 Aviojet	1AS002	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
CASA CN-235-100	CT7-5	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 150 Series	O200	NONE	37.02%	1.62%	43.66%	13.83%	3.15%	0.71%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	46.73%	5.07%	33.84%	11.36%	2.25%	0.75%	0.00%	100.00%
Cessna 182	IO360	NONE	17.88%	2.32%	65.43%	11.69%	2.06%	0.60%	0.00%	100.00%
Cessna 206	TIO540	IO-540-AC	51.32%	3.31%	23.84%	17.22%	2.98%	1.32%	0.00%	100.00%
Cessna 208 Caravan	PT6A14	NONE	32.83%	4.83%	42.50%	17.00%	1.67%	1.17%	0.00%	100.00%
Cessna 210 Centurion	TIO540	NONE	66.67%	6.67%	22.22%	4.44%	0.00%	0.00%	0.00%	100.00%
Cessna 310	TIO540	NONE	44.00%	8.00%	26.00%	18.00%	0.00%	4.00%	0.00%	100.00%
Cessna 337 Skymaster	IO360	NONE	58.82%	0.00%	29.41%	5.88%	2.94%	2.94%	0.00%	100.00%
Cessna 340	TIO540	NONE	39.68%	4.76%	36.51%	19.05%	0.00%	0.00%	0.00%	100.00%
Cessna 402	TIO540	NONE	40.00%	16.00%	32.00%	12.00%	0.00%	0.00%	0.00%	100.00%
Cessna 404 Titan II	TIO540	NONE	21.05%	5.26%	52.63%	15.79%	5.26%	0.00%	0.00%	100.00%
Cessna 414	TIO540	NONE	46.88%	3.13%	31.25%	15.63%	3.13%	0.00%	0.00%	100.00%
Cessna 421 Golden Eagle	TIO540	NONE	40.00%	0.00%	50.00%	10.00%	0.00%	0.00%	0.00%	100.00%
Cessna 425 Conquest I	PT6112	NONE	44.44%	11.11%	22.22%	22.22%	0.00%	0.00%	0.00%	100.00%
Cessna 441 Conquest II	TPE10	NONE	11.11%	11.11%	66.67%	11.11%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 500 Citation I	1PW035	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 501 Citation ISP	1PW035	NONE	11.11%	2.78%	66.67%	15.28%	0.00%	4.17%	0.00%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	8.06%	6.45%	69.35%	16.13%	0.00%	0.00%	0.00%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	4.17%	1.04%	82.29%	12.50%	0.00%	0.00%	0.00%	100.00%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	3.28%	0.00%	72.95%	22.13%	1.64%	0.00%	0.00%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	8.95%	0.78%	70.82%	17.51%	0.78%	1.17%	0.00%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	4.28%	0.00%	75.40%	19.25%	0.53%	0.53%	0.00%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	1.79%	0.00%	72.84%	24.48%	0.60%	0.30%	0.00%	100.00%
Cessna 650 Citation III	TFE731	NONE	12.50%	4.17%	60.42%	20.83%	2.08%	0.00%	0.00%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	3.85%	0.00%	69.23%	23.08%	2.88%	0.96%	0.00%	100.00%
Cessna 750 Citation X	4AL003	NONE	0.00%	0.00%	71.01%	27.54%	1.45%	0.00%	0.00%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	36.96%	15.22%	34.78%	13.04%	0.00%	0.00%	0.00%	100.00%
Cirrus SR20	IO360	NONE	53.16%	8.86%	22.78%	13.92%	1.27%	0.00%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	59.81%	12.64%	16.04%	9.43%	0.75%	1.32%	0.00%	100.00%
Dassault Falcon 10	1AS001	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 2000	CF700D	NONE	0.63%	0.00%	74.05%	24.05%	1.27%	0.00%	0.00%	100.00%
Dassault Falcon 20-C	CF700D	NONE	0.00%	0.00%	62.50%	37.50%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 50	16PW114	NONE	1.27%	0.00%	82.28%	16.46%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 900	TFE731	NONE	1.48%	0.00%	86.67%	11.85%	0.00%	0.00%	0.00%	100.00%
DEHAVILLAND CARIBOU DHC-4A	NM	PT6A60	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Dornier 328-100 Series	PW119B	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EADS Socata TB-10 Tobago	IO360	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-20 Trinidad	TIO540	NONE	66.67%	0.00%	12.50%	16.67%	0.00%	4.17%	0.00%	100.00%



## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
EADS Socata TBM-700	PT6A64	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	6.67%	0.00%	86.67%	6.67%	0.00%	0.00%	0.00%	100.00%
Embraer 505	BIZLIGHTJET_F	NONE	2.87%	0.00%	73.21%	22.97%	0.48%	0.48%	0.00%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	3.33%	0.00%	70.00%	26.67%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ135	6AL012	NONE	3.33%	0.00%	70.00%	26.67%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ145	4AL003	NONE	0.00%	0.00%	66.67%	0.00%	33.33%	0.00%	0.00%	100.00%
Embraer ERJ170	8GE107	NONE	37.50%	25.00%	25.00%	12.50%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ175	6GE094	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ190	XCF10E	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy	6AL011	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
EPIC LT/Dynasty	PT667A	NONE	14.29%	14.29%	57.14%	0.00%	14.29%	0.00%	0.00%	100.00%
Eurocopter EC-130	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Eurocopter EC-155B1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Fairchild SA-226-T Merlin III	TPE10	NONE	14.29%	0.00%	78.57%	7.14%	0.00%	0.00%	0.00%	100.00%
Falcon 7X	7CM045	NONE	0.00%	0.00%	76.74%	23.26%	0.00%	0.00%	0.00%	100.00%
Grumman G-73 Mallard	TIO540	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	4.55%	0.00%	68.18%	27.27%	0.00%	0.00%	0.00%	100.00%
Gulfstream G200	7PW077	NONE	0.00%	0.00%	79.49%	20.51%	0.00%	0.00%	0.00%	100.00%
Gulfstream G280	11HN005	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G300	F1131	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G600	16PW116	NONE	0.00%	0.00%	69.23%	30.77%	0.00%	0.00%	0.00%	100.00%
Gulfstream IV-SP	6RR042	NONE	0.00%	1.37%	84.93%	12.33%	0.00%	1.37%	0.00%	100.00%
Gulfstream V-SP	3BR001	NONE	2.86%	0.00%	80.00%	14.29%	2.86%	0.00%	0.00%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	2.00%	1.00%	76.00%	21.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	2.60%	0.26%	75.84%	20.00%	1.04%	0.26%	0.00%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Hughes 500D	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Israel IAI-1124 Westwind I	1AS002	NONE	11.11%	0.00%	88.89%	0.00%	0.00%	0.00%	0.00%	100.00%
Israel IAI-1125 Astra	TFE731	NONE	6.67%	10.00%	66.67%	16.67%	0.00%	0.00%	0.00%	100.00%
Lancair 360	IO360	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Maule MT-7-235	TIO540	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
McDonnell Douglas 600N	TPE6	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Mitsubishi MU-2	TPE1	NONE	66.67%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Mooney M20-K	TSIO36	NONE	65.99%	14.97%	10.20%	5.44%	0.68%	2.72%	0.00%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	9.88%	3.05%	54.51%	26.16%	5.96%	0.44%	0.00%	100.00%
Partenavia P.68 Victor	IO360	NONE	48.54%	5.85%	29.24%	11.11%	2.92%	2.34%	0.00%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	10.00%	0.00%	60.00%	30.00%	0.00%	0.00%	0.00%	100.00%
Pilatus PC-12	PT6A67	NONE	21.71%	0.00%	60.47%	17.05%	0.78%	0.00%	0.00%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	55.33%	3.33%	26.67%	12.67%	2.00%	0.00%	0.00%	100.00%
Piper PA-24 Comanche	TIO540	NONE	22.22%	0.00%	55.56%	11.11%	11.11%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	55.89%	8.87%	24.35%	8.57%	1.37%	0.95%	0.00%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	40.23%	2.83%	40.23%	13.88%	2.27%	0.57%	0.00%	100.00%
Piper PA-31 Navajo	TIO540	NONE	17.78%	2.47%	61.23%	17.04%	1.23%	0.25%	0.00%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	46.00%	8.00%	34.00%	12.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	50.88%	6.02%	29.32%	11.28%	1.25%	1.25%	0.00%	100.00%
Piper PA-34 Seneca	IO360	NONE	44.88%	2.56%	37.33%	12.80%	1.62%	0.81%	0.00%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	9.09%	0.00%	90.91%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA46-TP Meridian	PT6A42	NONE	45.83%	6.67%	32.50%	10.83%	1.67%	2.50%	0.00%	100.00%
Quest Kodiak 100	PT6A34	NONE	9.52%	0.00%	76.19%	14.29%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Raytheon Beech 18	R1820	NONE	9.52%	0.00%	76.19%	14.29%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	58.14%	9.30%	25.58%	6.98%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	61.73%	9.92%	18.27%	6.93%	1.26%	1.89%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	53.66%	4.36%	26.53%	11.68%	2.18%	1.58%	0.00%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	3.90%	0.49%	72.68%	22.44%	0.49%	0.00%	0.00%	100.00%
Raytheon Hawker 1000	7PW078	NONE	33.33%	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	0.00%	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 100	PT6A28	NONE	41.67%	0.00%	58.33%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 90	P6135A	NONE	36.86%	8.29%	42.86%	11.43%	0.57%	0.00%	0.00%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	3.23%	0.00%	67.74%	29.03%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	32.30%	7.45%	47.20%	11.80%	0.62%	0.62%	0.00%	100.00%
Raytheon Super King Air 300	P660AG	NONE	10.84%	1.20%	66.27%	19.28%	1.20%	1.20%	0.00%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Robinson R22B	IO320	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Rockwell Commander 500	TIO540	NONE	22.22%	11.11%	55.56%	11.11%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 680	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Rockwell Commander 690	TPE1	NONE	47.62%	6.35%	25.40%	17.46%	1.59%	1.59%	0.00%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Ryan Navion B	TIO540	NONE	25.00%	0.00%	25.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Saab 340-A	CT7-5	NONE	75.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Schweizer S269D/330	T63A5A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Shorts 360-300 Series	PT6A6A	PT6A-45AR	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Sikorsky S-76 Spirit	T70070	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%

## 2017 Departure Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Sikorsky SH-3 Sea King	T585	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
SOCATA TBM 850	PT6A66	NONE	11.11%	0.00%	55.56%	33.33%	0.00%	0.00%	0.00%	100.00%
<b>Grand Total</b>			<b>35.25%</b>	<b>3.98%</b>	<b>40.90%</b>	<b>12.69%</b>	<b>1.85%</b>	<b>0.75%</b>	<b>4.60%</b>	<b>100.00%</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

---

## 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	66.67%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerostar PA-60	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Agusta A-109	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A319-100 Series	1CM008	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A320-200 Series	1IA001	NONE	33.33%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A321-200 Series	1CM008	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-200 Series	3GE057	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-300 Series	3GE057	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ATR 42-600	BIZHEAVYPROP_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aviat Husky A1B	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 31	TPE10	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 32	TPE12	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 41	TPE14	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bell 206 JetRanger	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 214B-1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 430	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 717-200 Series	4BR002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 727-200 Series	1PW009	BFG	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-300 Series	CFM563	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-400 Series	CFM563	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-500 Series	8GE107	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing 737-700 Series	1CM007	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-800 Series	1CM007	NONE	33.33%	9.52%	47.62%	4.76%	0.00%	4.76%	0.00%	100.00%
Boeing 737-900 Series	3CM029	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 757-200 Series	4PW072	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-200 Series	1GE010	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 767-300 Series	1GE012	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 777-200 Series	7GE097	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing CH-46 Sea Knight	T588F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-10-30 Series	3GE069	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-3	R1820	R1820-86	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-11	1GE020	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-82	1PW017	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-83	4PW071	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-88	1PW017	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-90	11A004	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing Stearman PT-17 / A75N1	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boelkow BO-105	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Challenger 300	8HN001	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 350	14HN009	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Challenger 600	1GE034	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-100	1GE035	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier CRJ-200	1GE035	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-700	5GE084	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Global 5000 Business	4BR009	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Global Express	4BR008	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bombardier Learjet 31	1AS001	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 35	1AS001	NONE	0.00%	0.00%	57.14%	42.86%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	0.00%	0.00%	93.33%	6.67%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 55	1AS002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	0.00%	0.00%	42.86%	57.14%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Britten-Norman BN-2 Islander	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CASA C-101 Aviojet	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CASA CN-235-100	CT7-5	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 150 Series	O200	NONE	18.18%	4.55%	63.64%	13.64%	0.00%	0.00%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	18.61%	2.60%	57.58%	19.05%	1.73%	0.43%	0.00%	100.00%
Cessna 182	IO360	NONE	54.29%	0.00%	25.71%	20.00%	0.00%	0.00%	0.00%	100.00%
Cessna 206	TIO540	IO-540-AC	6.67%	0.00%	60.00%	20.00%	13.33%	0.00%	0.00%	100.00%
Cessna 208 Caravan	PT6A14	NONE	25.00%	0.00%	75.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 210 Centurion	TIO540	NONE	66.67%	6.67%	22.22%	4.44%	0.00%	0.00%	0.00%	100.00%
Cessna 310	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Cessna 337 Skymaster	IO360	NONE	58.82%	0.00%	29.41%	5.88%	2.94%	2.94%	0.00%	100.00%
Cessna 340	TIO540	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Cessna 402	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 404 Titan II	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 414	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 421 Golden Eagle	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 425 Conquest I	PT6112	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 441 Conquest II	TPE10	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%



## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 500 Citation I	1PW035	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 501 Citation ISP	1PW035	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	0.00%	0.00%	58.33%	41.67%	0.00%	0.00%	0.00%	100.00%
Cessna 650 Citation III	TFE731	NONE	12.50%	4.17%	60.42%	20.83%	2.08%	0.00%	0.00%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	0.00%	0.00%	40.00%	60.00%	0.00%	0.00%	0.00%	100.00%
Cessna 750 Citation X	4AL003	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cirrus SR20	IO360	NONE	53.16%	8.86%	22.78%	13.92%	1.27%	0.00%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	19.05%	14.29%	28.57%	38.10%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 10	1AS001	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dassault Falcon 2000	CF700D	NONE	0.00%	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 20-C	CF700D	NONE	0.00%	0.00%	62.50%	37.50%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 50	16PW114	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 900	TFE731	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
DEHAVILLAND CARIBOU DHC-4A	NM PT6A60	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dornier 328-100 Series	PW119B	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-10 Tobago	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EADS Socata TB-20 Trinidad	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
EADS Socata TBM-700	PT6A64	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer 505	BIZLIGHTJET_F	NONE	0.00%	0.00%	10.00%	80.00%	0.00%	10.00%	0.00%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ135	6AL012	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ145	4AL003	NONE	0.00%	0.00%	66.67%	0.00%	33.33%	0.00%	0.00%	100.00%
Embraer ERJ170	8GE107	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ175	6GE094	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ190	XCF10E	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy	6AL011	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EPIC LT/Dynasty	PT667A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Eurocopter EC-130	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Eurocopter EC-155B1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fairchild SA-226-T Merlin III	TPE10	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Falcon 7X	7CM045	NONE	0.00%	0.00%	76.74%	23.26%	0.00%	0.00%	0.00%	100.00%
Grumman G-73 Mallard	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	4.55%	0.00%	68.18%	27.27%	0.00%	0.00%	0.00%	100.00%
Gulfstream G200	7PW077	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G280	11HN005	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G300	F1131	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G600	16PW116	NONE	0.00%	0.00%	69.23%	30.77%	0.00%	0.00%	0.00%	100.00%
Gulfstream IV-SP	6RR042	NONE	0.00%	0.00%	71.43%	28.57%	0.00%	0.00%	0.00%	100.00%
Gulfstream V-SP	3BR001	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	0.00%	0.00%	68.97%	31.03%	0.00%	0.00%	0.00%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hughes 500D	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Israel IAI-1124 Westwind I	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Israel IAI-1125 Astra	TFE731	NONE	0.00%	50.00%	25.00%	0.00%	25.00%	0.00%	0.00%	100.00%
Lancair 360	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Maule MT-7-235	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
McDonnell Douglas 600N	TPE6	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mitsubishi MU-2	TPE1	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mooney M20-K	TSIO36	NONE	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Partenavia P.68 Victor	IO360	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pilatus PC-12	PT6A67	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	16.67%	0.00%	33.33%	50.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-24 Comanche	TIO540	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	17.91%	2.99%	53.73%	19.40%	4.48%	1.49%	0.00%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	0.00%	0.00%	71.43%	14.29%	7.14%	7.14%	0.00%	100.00%
Piper PA-31 Navajo	TIO540	NONE	25.00%	0.00%	75.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-34 Seneca	IO360	NONE	20.00%	0.00%	65.00%	10.00%	0.00%	5.00%	0.00%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Piper PA46-TP Meridian	PT6A42	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Quest Kodiak 100	PT6A34	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Departure Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Raytheon Beech 18	R1820	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Beech Baron 58	TIO540	NONE	11.11%	0.00%	77.78%	5.56%	5.56%	0.00%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	13.33%	0.00%	53.33%	33.33%	0.00%	0.00%	0.00%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 1000	7PW078	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 100	PT6A28	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon King Air 90	P6135A	NONE	11.11%	11.11%	66.67%	11.11%	0.00%	0.00%	0.00%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Super King Air 200	PT6A40	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 300	P660AG	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Robinson R22B	IO320	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Rockwell Commander 500	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Rockwell Commander 680	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Rockwell Commander 690	TPE1	NONE	47.62%	6.35%	25.40%	17.46%	1.59%	1.59%	0.00%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Ryan Navion B	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Saab 340-A	CT7-5	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Schweizer S269D/330	T63A5A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Shorts 360-300 Series	PT6A6A	PT6A-45AR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sukorsky S-76 Spirit	T70070	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%

**2017 Departure Runway Use - Nighttime**

<b>AEDT Airframe</b>	<b>Engine Code</b>	<b>Engine Mod Code</b>	<b>09L</b>	<b>27R</b>	<b>09R</b>	<b>27L</b>	<b>13</b>	<b>31</b>	<b>H1</b>	<b>Grand Total</b>
Sikorsky SH-3 Sea King	T585	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SOCATA TBM 850	PT6A66	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
<b>Grand Total</b>			<b>12.91%</b>	<b>2.06%</b>	<b>47.41%</b>	<b>16.09%</b>	<b>1.32%</b>	<b>0.65%</b>	<b>19.57%</b>	<b>100.00%</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

---

## 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	41.13%	14.89%	31.21%	10.64%	2.13%	0.00%	0.00%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerostar PA-60	TIO540	NONE	22.22%	0.00%	61.11%	11.11%	5.56%	0.00%	0.00%	100.00%
Agusta A-109	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Airbus A319-100 Series	1CM008	NONE	16.67%	16.67%	66.67%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A320-200 Series	1IA001	NONE	7.14%	0.00%	92.86%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A321-200 Series	1CM008	NONE	0.00%	16.67%	50.00%	16.67%	16.67%	0.00%	0.00%	100.00%
Airbus A330-200 Series	3GE057	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-300 Series	3GE057	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
ATR 42-600	BIZHEAVYPROP_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Aviat Husky A1B	IO360	NONE	80.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 31	TPE10	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 32	TPE12	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BAE Jetstream 41	TPE14	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bell 206 JetRanger	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 214B-1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 430	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Boeing 717-200 Series	4BR002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 727-200 Series	1PW009	BFG	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-300 Series	CFM563	NONE	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-400 Series	CFM563	NONE	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-500 Series	8GE107	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing 737-700 Series	1CM007	NONE	0.00%	20.00%	80.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-800 Series	1CM007	NONE	25.00%	5.00%	60.00%	10.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-900 Series	3CM029	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 757-200 Series	4PW072	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-200 Series	1GE010	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-300 Series	1GE012	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 777-200 Series	7GE097	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing CH-46 Sea Knight	T588F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Boeing DC-10-30 Series	3GE069	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3	R1820	R1820-86	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-11	1GE020	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-82	1PW017	NONE	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Boeing MD-83	4PW071	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-88	1PW017	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing MD-90	11A004	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Boeing Stearman PT-17 / A75N1	TIO540	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boelkow BO-105	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bombardier Challenger 300	8HN001	NONE	0.78%	0.00%	76.56%	22.66%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 350	14HN009	NONE	0.00%	0.00%	64.71%	35.29%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 600	1GE034	NONE	0.88%	0.88%	78.07%	20.18%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-100	1GE035	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-200	1GE035	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-700	5GE084	NONE	0.00%	20.00%	40.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Global 5000 Business	4BR009	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Global Express	4BR008	NONE	1.92%	1.92%	71.15%	25.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bombardier Learjet 31	1AS001	NONE	0.00%	1.67%	78.33%	20.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 35	1AS001	NONE	1.47%	0.00%	72.06%	26.47%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	24.14%	3.45%	55.17%	17.24%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 55	1AS002	NONE	0.00%	3.70%	81.48%	14.81%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	0.89%	0.45%	79.46%	19.20%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Britten-Norman BN-2 Islander	TIO540	NONE	0.00%	4.55%	81.82%	13.64%	0.00%	0.00%	0.00%	100.00%
CASA C-101 Aviojet	1AS002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
CASA CN-235-100	CT7-5	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 150 Series	O200	NONE	14.61%	3.99%	67.22%	12.27%	1.42%	0.49%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	19.76%	5.10%	61.48%	11.65%	1.67%	0.33%	0.00%	100.00%
Cessna 182	IO360	NONE	20.71%	15.05%	40.94%	18.93%	3.56%	0.81%	0.00%	100.00%
Cessna 206	TIO540	IO-540-AC	11.44%	3.81%	64.81%	17.60%	2.05%	0.29%	0.00%	100.00%
Cessna 208 Caravan	PT6A14	NONE	6.27%	3.13%	66.10%	19.94%	2.56%	1.99%	0.00%	100.00%
Cessna 210 Centurion	TIO540	NONE	20.93%	9.30%	53.49%	13.95%	2.33%	0.00%	0.00%	100.00%
Cessna 310	TIO540	NONE	37.14%	17.14%	28.57%	17.14%	0.00%	0.00%	0.00%	100.00%
Cessna 337 Skymaster	IO360	NONE	28.00%	4.00%	64.00%	4.00%	0.00%	0.00%	0.00%	100.00%
Cessna 340	TIO540	NONE	3.23%	3.23%	64.52%	25.81%	3.23%	0.00%	0.00%	100.00%
Cessna 402	TIO540	NONE	13.04%	8.70%	60.87%	17.39%	0.00%	0.00%	0.00%	100.00%
Cessna 404 Titan II	TIO540	NONE	0.00%	0.00%	80.00%	15.00%	5.00%	0.00%	0.00%	100.00%
Cessna 414	TIO540	NONE	6.25%	0.00%	81.25%	12.50%	0.00%	0.00%	0.00%	100.00%
Cessna 421 Golden Eagle	TIO540	NONE	11.11%	0.00%	66.67%	22.22%	0.00%	0.00%	0.00%	100.00%
Cessna 425 Conquest I	PT6112	NONE	12.50%	12.50%	75.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 441 Conquest II	TPE10	NONE	0.00%	0.00%	75.00%	16.67%	8.33%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 500 Citation I	1PW035	NONE	0.00%	0.00%	85.71%	14.29%	0.00%	0.00%	0.00%	100.00%
Cessna 501 Citation ISP	1PW035	NONE	0.00%	0.00%	72.41%	27.59%	0.00%	0.00%	0.00%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	0.97%	0.00%	78.64%	20.39%	0.00%	0.00%	0.00%	100.00%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	0.00%	0.00%	79.66%	18.64%	0.85%	0.85%	0.00%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	0.00%	0.00%	79.07%	20.93%	0.00%	0.00%	0.00%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	2.73%	1.82%	76.36%	19.09%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	0.55%	0.00%	78.14%	20.77%	0.55%	0.00%	0.00%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	0.59%	0.00%	78.89%	20.23%	0.00%	0.29%	0.00%	100.00%
Cessna 650 Citation III	TFE731	NONE	6.52%	2.17%	63.04%	28.26%	0.00%	0.00%	0.00%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	0.90%	0.00%	71.17%	27.03%	0.00%	0.90%	0.00%	100.00%
Cessna 750 Citation X	4AL003	NONE	0.00%	1.56%	73.44%	25.00%	0.00%	0.00%	0.00%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	31.82%	6.82%	50.00%	11.36%	0.00%	0.00%	0.00%	100.00%
Cirrus SR20	IO360	NONE	16.67%	8.97%	52.56%	17.95%	2.56%	1.28%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	28.83%	8.15%	46.72%	13.72%	1.99%	0.60%	0.00%	100.00%
Dassault Falcon 10	1AS001	NONE	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 2000	CF700D	NONE	0.65%	0.00%	75.48%	23.87%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 20-C	CF700D	NONE	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 50	16PW114	NONE	0.00%	0.00%	83.12%	16.88%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 900	TFE731	NONE	0.81%	0.81%	80.65%	17.74%	0.00%	0.00%	0.00%	100.00%
DEHAVILLAND CARIBOU DHC-4A	NM	PT6A60	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Dornier 328-100 Series	PW119B	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EADS Socata TB-10 Tobago	IO360	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-20 Trinidad	TIO540	NONE	16.67%	8.33%	58.33%	16.67%	0.00%	0.00%	0.00%	100.00%



## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
EADS Socata TBM-700	PT6A64	NONE	0.00%	0.00%	70.00%	30.00%	0.00%	0.00%	0.00%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	12.50%	6.25%	81.25%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer 505	BIZLIGHTJET_F	NONE	1.92%	0.48%	78.85%	18.75%	0.00%	0.00%	0.00%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ135	6AL012	NONE	6.45%	0.00%	67.74%	25.81%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ145	4AL003	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ170	8GE107	NONE	33.33%	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ175	6GE094	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ190	XCF10E	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy	6AL011	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
EPIC LT/Dynasty	PT667A	NONE	25.00%	0.00%	62.50%	0.00%	12.50%	0.00%	0.00%	100.00%
Eurocopter EC-130	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Eurocopter EC-155B1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Fairchild SA-226-T Merlin III	TPE10	NONE	16.67%	0.00%	66.67%	16.67%	0.00%	0.00%	0.00%	100.00%
Falcon 7X	7CM045	NONE	2.44%	0.00%	73.17%	24.39%	0.00%	0.00%	0.00%	100.00%
Grumman G-73 Mallard	TIO540	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	0.00%	0.00%	76.92%	23.08%	0.00%	0.00%	0.00%	100.00%
Gulfstream G200	7PW077	NONE	0.00%	0.00%	88.89%	11.11%	0.00%	0.00%	0.00%	100.00%
Gulfstream G280	11HN005	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G300	F1131	NONE	0.00%	0.00%	90.91%	9.09%	0.00%	0.00%	0.00%	100.00%
Gulfstream G600	16PW116	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream IV-SP	6RR042	NONE	3.33%	0.00%	83.33%	13.33%	0.00%	0.00%	0.00%	100.00%
Gulfstream V-SP	3BR001	NONE	0.00%	0.00%	90.00%	10.00%	0.00%	0.00%	0.00%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	0.00%	1.00%	80.00%	19.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	0.84%	0.28%	76.88%	21.45%	0.56%	0.00%	0.00%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Hughes 500D	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Israel IAI-1124 Westwind I	1AS002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Israel IAI-1125 Astra	TFE731	NONE	3.57%	3.57%	60.71%	32.14%	0.00%	0.00%	0.00%	100.00%
Lancair 360	IO360	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Maule MT-7-235	TIO540	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
McDonnell Douglas 600N	TPE6	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Mitsubishi MU-2	TPE1	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Mooney M20-K	TSIO36	NONE	23.40%	6.38%	54.61%	14.18%	0.71%	0.71%	0.00%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	3.51%	3.51%	75.44%	17.54%	0.00%	0.00%	0.00%	100.00%
Partenavia P.68 Victor	IO360	NONE	7.14%	3.25%	74.03%	12.99%	1.30%	1.30%	0.00%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	8.33%	0.00%	66.67%	25.00%	0.00%	0.00%	0.00%	100.00%
Pilatus PC-12	PT6A67	NONE	2.29%	0.00%	78.63%	17.56%	1.53%	0.00%	0.00%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	11.02%	3.39%	57.63%	25.42%	2.54%	0.00%	0.00%	100.00%
Piper PA-24 Comanche	TIO540	NONE	0.00%	8.33%	83.33%	8.33%	0.00%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	26.61%	7.34%	51.67%	11.42%	2.15%	0.82%	0.00%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	11.03%	2.35%	73.24%	12.21%	1.17%	0.00%	0.00%	100.00%
Piper PA-31 Navajo	TIO540	NONE	3.85%	2.31%	73.33%	18.46%	1.28%	0.77%	0.00%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	9.43%	0.00%	67.92%	18.87%	0.00%	3.77%	0.00%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	21.75%	6.62%	56.74%	11.82%	1.65%	1.42%	0.00%	100.00%
Piper PA-34 Seneca	IO360	NONE	8.41%	3.43%	73.12%	13.61%	1.11%	0.33%	0.00%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	0.00%	0.00%	90.00%	10.00%	0.00%	0.00%	0.00%	100.00%
Piper PA46-TP Meridian	PT6A42	NONE	24.35%	4.35%	54.78%	14.78%	0.87%	0.87%	0.00%	100.00%
Quest Kodiak 100	PT6A34	NONE	5.00%	0.00%	85.00%	10.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Raytheon Beech 18	R1820	NONE	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	13.64%	6.82%	56.82%	15.91%	6.82%	0.00%	0.00%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	20.03%	7.36%	58.22%	12.36%	1.10%	0.94%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	11.28%	3.62%	67.02%	14.89%	2.77%	0.43%	0.00%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	2.02%	0.00%	75.76%	22.22%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 1000	7PW078	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 100	PT6A28	NONE	9.09%	0.00%	81.82%	0.00%	9.09%	0.00%	0.00%	100.00%
Raytheon King Air 90	P6135A	NONE	22.73%	7.58%	53.03%	14.85%	1.21%	0.61%	0.00%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	3.03%	0.00%	66.67%	30.30%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 200	PT6A40	NONE	8.70%	1.24%	72.67%	17.39%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 300	P660AG	NONE	2.41%	1.20%	77.11%	16.87%	1.20%	1.20%	0.00%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Robinson R22B	IO320	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Rockwell Commander 500	TIO540	NONE	30.00%	0.00%	50.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 680	TIO540	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Commander 690	TPE1	NONE	12.28%	8.77%	59.65%	17.54%	0.00%	1.75%	0.00%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Ryan Navion B	TIO540	NONE	57.14%	14.29%	14.29%	14.29%	0.00%	0.00%	0.00%	100.00%
Saab 340-A	CT7-5	NONE	14.29%	0.00%	85.71%	0.00%	0.00%	0.00%	0.00%	100.00%
Schweizer S269D/330	T63A5A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Shorts 360-300 Series	PT6A6A	PT6A-45AR	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Sukorsky S-76 Spirit	T70070	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%

## 2017 Arrival Runway Use - Daytime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Sikorsky SH-3 Sea King	T585	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
SOCATA TBM 850	PT6A66	NONE	14.29%	0.00%	64.29%	21.43%	0.00%	0.00%	0.00%	100.00%
<b>Grand Total</b>			<b>14.58%</b>	<b>4.65%</b>	<b>60.53%</b>	<b>13.77%</b>	<b>1.43%</b>	<b>0.44%</b>	<b>4.60%</b>	<b>100.00%</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



## 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	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerospatiale SA-355F Twin Star (AS-355)	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Aerostar PA-60	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Agusta A-109	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A319-100 Series	1CM008	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Airbus A320-200 Series	11A001	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Airbus A321-200 Series	1CM008	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-200 Series	3GE057	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Airbus A330-300 Series	3GE057	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Airbus A380-800 Series/Trent 970	6GE087	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ATR 42-600	BIZHEAVYPROP_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aviat Husky A1B	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 31	TPE10	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 32	TPE12	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BAE Jetstream 41	TPE14	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BEECH MENTOR (BE45) PT6A-25	NM	PT6A34	PT6A-25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bell 206 JetRanger	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 214B-1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Bell 430	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 717-200 Series	4BR002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 727-200 Series	1PW009	BFG	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-300 Series	CFM563	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-400 Series	CFM563	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-500 Series	8GE107	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Boeing 737-700 Series	1CM007	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 737-800 Series	1CM007	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 737-900 Series	3CM029	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 757-200 Series	4PW072	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Boeing 767-200 Series	1GE010	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 767-300 Series	1GE012	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing 777-200 Series	7GE097	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing CH-46 Sea Knight	T588F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-10-30 Series	3GE069	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-3	R1820	R1820-86	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing DC-3 ANP:C131B	R1820	R-2800-99W	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-11	1GE020	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-82	1PW017	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-83	4PW071	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-88	1PW017	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing MD-90	1A004	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boeing Stearman PT-17 / A75N1	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Boelkow BO-105	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Challenger 300	8HN001	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Bombardier Challenger 350	14HN009	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Challenger 600	1GE034	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-100	1GE035	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier CRJ-200	1GE035	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Bombardier CRJ-700	5GE084	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Global 5000 Business	4BR009	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Global Express	4BR008	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Bombardier Learjet 31	1AS001	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 35	1AS001	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 40	BIZMEDIUMJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 45	BIZMEDIUMJET_F	NONE	12.50%	25.00%	62.50%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 55	1AS002	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 60	BIZMEDIUMJET_F	NONE	0.00%	0.00%	90.91%	9.09%	0.00%	0.00%	0.00%	100.00%
Bombardier Learjet 70	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bombardier Learjet 75	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Britten-Norman BN-2 Islander	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CASA C-101 Aviojet	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CASA CN-235-100	CT7-5	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 150 Series	O200	NONE	7.01%	1.85%	79.34%	8.86%	2.95%	0.00%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	8.67%	2.63%	74.38%	13.01%	1.18%	0.13%	0.00%	100.00%
Cessna 182	IO360	NONE	7.14%	35.71%	23.81%	33.33%	0.00%	0.00%	0.00%	100.00%
Cessna 206	TIO540	IO-540-AC	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 208 Caravan	PT6A14	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Cessna 210 Centurion	TIO540	NONE	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 310	TIO540	NONE	37.14%	17.14%	28.57%	17.14%	0.00%	0.00%	0.00%	100.00%
Cessna 337 Skymaster	IO360	NONE	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Cessna 340	TIO540	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Cessna 402	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 404 Titan II	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 414	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 421 Golden Eagle	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 425 Conquest I	PT6112	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 441 Conquest II	TPE10	NONE	0.00%	0.00%	75.00%	16.67%	8.33%	0.00%	0.00%	100.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Cessna 500 Citation I	1PW035	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cessna 501 Citation ISP	1PW035	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525 CitationJet	BIZLIGHTJET_F	NONE_GNR_VAR1	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525A CitationJet	BIZLIGHTJET_F	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525B CitationJet	BIZLIGHTJET_F	NONE	16.67%	0.00%	33.33%	50.00%	0.00%	0.00%	0.00%	100.00%
Cessna 525C CitationJet	BIZLIGHTJET	NONE	0.00%	0.00%	79.07%	20.93%	0.00%	0.00%	0.00%	100.00%
Cessna 550 Citation II	BIZLIGHTJET_F	NONE	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation Excel	1PW037	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 560 Citation XLS	BIZLIGHTJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 650 Citation III	TFE731	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cessna 680 Citation Sovereign	BIZLIGHTJET_F	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Cessna 750 Citation X	4AL003	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
CESSNA CITATION 510	BIZLIGHTJET_F	NONE	16.67%	16.67%	33.33%	33.33%	0.00%	0.00%	0.00%	100.00%
Cirrus SR20	IO360	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	21.43%	7.14%	42.86%	14.29%	7.14%	7.14%	0.00%	100.00%
Dassault Falcon 10	1AS001	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dassault Falcon 2000	CF700D	NONE	0.00%	0.00%	78.57%	21.43%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 20-C	CF700D	NONE	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 50	16PW114	NONE	20.00%	0.00%	60.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Dassault Falcon 900	TFE731	NONE	0.00%	0.00%	85.71%	14.29%	0.00%	0.00%	0.00%	100.00%
DEHAVILLAND CARIBOU DHC-4A	NM	PT6A60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DeHavilland DHC-2 Mk III Beaver	1PW012	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DeHavilland DHC-6-300 Twin Otter	PT6A42	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dornier 328-100 Series	PW119B	NONE	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
EADS Socata TB-10 Tobago	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EADS Socata TB-20 Trinidad	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
EADS Socata TBM-700	PT6A64	NONE	0.00%	0.00%	70.00%	30.00%	0.00%	0.00%	0.00%	100.00%
Eclipse 500 / PW610F	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer 505	BIZLIGHTJET_F	NONE	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Embraer EMB110 Bandeirante	PT6A27	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ135	6AL012	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Embraer ERJ145	4AL003	NONE	0.00%	0.00%	50.00%	0.00%	50.00%	0.00%	0.00%	100.00%
Embraer ERJ170	8GE107	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ175	6GE094	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer ERJ190	XCF10E	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy	6AL011	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy 450 (EMB-545)	14HN007	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Embraer Legacy 500 (EMB-550)	14HN008	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EPIC LT/Dynasty	PT667A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Eurocopter EC-130	TPE3	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Eurocopter EC-155B1	T400	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fairchild SA-226-T Merlin III	TPE10	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Falcon 7X	7CM045	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Grumman G-73 Mallard	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Gulfstream G150	BIZMEDIUMJET_F	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G200	7PW077	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G280	11HN005	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream G300	F1131	NONE	0.00%	0.00%	90.91%	9.09%	0.00%	0.00%	0.00%	100.00%
Gulfstream G600	16PW116	NONE	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%
Gulfstream IV-SP	6RR042	NONE	0.00%	9.09%	90.91%	0.00%	0.00%	0.00%	0.00%	100.00%
Gulfstream V-SP	3BR001	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Hawker HS-125 Series 400	1RR019	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%



## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Hawker HS-125 Series 700	BIZMEDIUMJET_F	NONE	0.00%	0.00%	77.78%	22.22%	0.00%	0.00%	0.00%	100.00%
Honda HA-420 Hondajet	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hughes 500D	250B17	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Israel IAI-1124 Westwind I	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Israel IAI-1125 Astra	TFE731	NONE	3.57%	3.57%	60.71%	32.14%	0.00%	0.00%	0.00%	100.00%
Lancair 360	IO360	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Maule MT-7-235	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
McDonnell Douglas 600N	TPE6	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mitsubishi MU-2	TPE1	NONE	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Mitsubishi MU-300 Diamond	1PW036	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mooney M20-K	TSIO36	NONE	66.67%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	100.00%
Pacific Aerospace P-750 XSTOL	PT6A34	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Partenavia P.68 Victor	IO360	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piaggio P.180 Avanti	PT6A60	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pilatus PC-12	PT6A67	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-23 Apache/Aztec	TIO540	NONE	16.67%	0.00%	66.67%	16.67%	0.00%	0.00%	0.00%	100.00%
Piper PA-24 Comanche	TIO540	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	13.33%	1.03%	69.74%	13.33%	2.56%	0.00%	0.00%	100.00%
Piper PA-30 Twin Comanche	IO320	NONE	5.41%	2.70%	78.38%	8.11%	5.41%	0.00%	0.00%	100.00%
Piper PA-31 Navajo	TIO540	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piper PA-31T Cheyenne	PT6A11	NONE	9.43%	0.00%	67.92%	18.87%	0.00%	3.77%	0.00%	100.00%
Piper PA-32 Cherokee Six	TIO540	NONE	0.00%	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	100.00%
Piper PA-34 Seneca	IO360	NONE	4.76%	0.00%	78.57%	14.29%	2.38%	0.00%	0.00%	100.00%
Piper PA-42 Cheyenne Series	PT6A11	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Piper PA46-TP Meridian	PT6A42	NONE	25.00%	25.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Quest Kodiak 100	PT6A34	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Raytheon Beech 18	R1820	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Beech 55 Baron	TIO540	TS10-520-L	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech 60 Duke	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Beech Baron 58	TIO540	NONE	5.88%	2.94%	76.47%	14.71%	0.00%	0.00%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	8.33%	0.00%	83.33%	8.33%	0.00%	0.00%	0.00%	100.00%
Raytheon Beechjet 400	BIZLIGHTJET_F	NONE	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Hawker 1000	7PW078	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Hawker 4000 Horizon	7PW079	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Hawker 800	BIZMEDIUMJET_F	NONE	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%
Raytheon King Air 100	PT6A28	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon King Air 90	P6135A	NONE	33.33%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Premier I	BIZLIGHTJET_F	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Raytheon Super King Air 200	PT6A40	NONE	40.00%	0.00%	40.00%	20.00%	0.00%	0.00%	0.00%	100.00%
Raytheon Super King Air 300	P660AG	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Reims-Cessna 406 Caravan II	PT6112	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Robinson R22B	IO320	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Rockwell Commander 500	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Rockwell Commander 680	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Rockwell Commander 690	TPE1	NONE	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Rockwell Sabreliner 65	1AS002	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Ryan Navion B	TIO540	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Saab 340-A	CT7-5	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Schweizer S269D/330	T63A5A	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Shorts 360-300 Series	PT6A6A	PT6A-45AR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sikorsky S-76 Spirit	T70070	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%

## 2017 Arrival Runway Use - Nighttime

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	H1	Grand Total
Sikorsky SH-3 Sea King	T585	NONE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SOCATA TBM 850	PT6A66	NONE	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
<b>Grand Total</b>			<b>6.45%</b>	<b>2.52%</b>	<b>59.08%</b>	<b>11.07%</b>	<b>1.20%</b>	<b>0.12%</b>	<b>19.57%</b>	<b>100.00%</b>

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

## **APPENDIX A-7**

# 2017 Day and Night Touch-and-Go Runway Use Percentages

---

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

AEDT Airframe	Engine Code	Engine Mod Code	09L	27R	09R	27L	13	31	Grand Total
<b>Day</b>									
Cessna 150 Series	O200	NONE	37.02%	1.62%	43.66%	13.83%	3.15%	0.71%	100.00%
Cessna 172 Skyhawk	IO320	NONE	46.73%	5.07%	33.84%	11.36%	2.25%	0.75%	100.00%
Cessna 182	IO360	NONE	17.88%	2.32%	65.43%	11.69%	2.06%	0.60%	100.00%
Cirrus SR22	TIO540	NONE	59.81%	12.64%	16.04%	9.43%	0.75%	1.32%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	55.89%	8.87%	24.35%	8.57%	1.37%	0.95%	100.00%
Piper PA-34 Seneca	IO360	NONE	44.88%	2.56%	37.33%	12.80%	1.62%	0.81%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	61.73%	9.92%	18.27%	6.93%	1.26%	1.89%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	53.66%	4.36%	26.53%	11.68%	2.18%	1.58%	100.00%
Bell 206 JetRanger	250B17	NONE	37.02%	1.62%	43.66%	13.83%	3.15%	0.71%	100.00%
Bell 214B-1	T400	NONE	37.02%	1.62%	43.66%	13.83%	3.15%	0.71%	100.00%
<b>Total</b>			<b>43.69%</b>	<b>4.61%</b>	<b>37.02%</b>	<b>11.59%</b>	<b>2.25%</b>	<b>0.84%</b>	<b>100.00%</b>
<b>Night</b>									
Cessna 150 Series	O200	NONE	18.18%	4.55%	63.64%	13.64%	0.00%	0.00%	100.00%
Cessna 172 Skyhawk	IO320	NONE	18.61%	2.60%	57.58%	19.05%	1.73%	0.43%	100.00%
Cessna 182	IO360	NONE	54.29%	0.00%	25.71%	20.00%	0.00%	0.00%	100.00%
Cirrus SR22	TIO540	NONE	19.05%	14.29%	28.57%	38.10%	0.00%	0.00%	100.00%
Piper PA-28 Cherokee Series	IO320	O-320-D3G	17.91%	2.99%	53.73%	19.40%	4.48%	1.49%	100.00%
Piper PA-34 Seneca	IO360	NONE	20.00%	0.00%	65.00%	10.00%	0.00%	5.00%	100.00%
Raytheon Beech Baron 58	TIO540	NONE	11.11%	0.00%	77.78%	5.56%	5.56%	0.00%	100.00%
Raytheon Beech Bonanza 36	TIO540	NONE	13.33%	0.00%	53.33%	33.33%	0.00%	0.00%	100.00%
Bell 206 JetRanger	250B17	NONE	18.18%	4.55%	63.64%	13.64%	0.00%	0.00%	100.00%
Bell 214B-1	T400	NONE	18.18%	4.55%	63.64%	13.64%	0.00%	0.00%	100.00%
<b>Total</b>			<b>19.77%</b>	<b>2.82%</b>	<b>57.00%</b>	<b>17.96%</b>	<b>1.73%</b>	<b>0.73%</b>	<b>100.00%</b>

## **APPENDIX A-8**

### **2017 Flight Track Utilization**

---



## 2017 Flight Track Use Percentages

Arrival			Departure			Touch and Go		
Runway	Track ID	Flight Track Use %	Runway	Track ID	Flight Track Use %	Runway	Track ID	Flight Track Use %
09L	09LA01	60%	09L	09LD01	30%	09L	09LT01	100%
	09LA02	30%		09LD02	70%	<b>Total</b>	<b>100%</b>	
	09LA03	10%	<b>Total</b>	<b>100%</b>	27R	27RT01	100%	
<b>Total</b>	<b>100%</b>				<b>Total</b>	<b>100%</b>		
27R	27RA01	30%	27R	27RD01	25%	09R	09RT01	100%
	27RA02	60%		27RD02	25%		<b>Total</b>	<b>100%</b>
	27RA03	10%		27RD03	30%	27L	27LT01	100%
<b>Total</b>	<b>100%</b>	27RD04		10%	<b>Total</b>	<b>100%</b>		
		27RD05		10%				
09R	09RA01	70%	<b>Total</b>	<b>100%</b>	13	13T01	100%	
	09RA02	30%	09R	09RD01	40%	<b>Total</b>	<b>100%</b>	
<b>Total</b>	<b>100%</b>	09RD02		50%	31	31T01	100%	
		09RD03		10%	<b>Total</b>	<b>100%</b>		
27L	27LA01	50%	<b>Total</b>	<b>100%</b>				
	27LA02	40%	27L	27LD01	10%			
	27LA03	10%		27LD02	10%			
<b>Total</b>	<b>100%</b>	27LD03		30%				
		27LD04		50%				
13	13A01	30%	<b>Total</b>	<b>100%</b>				
	13A02	40%	13	13D01	40%			
	13A03	30%		13D02	40%			
<b>Total</b>	<b>100%</b>	13D03		20%				
31	31A01	5%	<b>Total</b>	<b>100%</b>	31	31D01	40%	
	31A02	30%						
	31A03	30%						
	31A04	30%						

## 2017 Flight Track Use Percentages

Arrival			Departure			Touch and Go		
Runway	Track ID	Flight Track Use %	Runway	Track ID	Flight Track Use %	Runway	Track ID	Flight Track Use %
	31A05	5%		31D02	40%			
	<b>Total</b>	<b>100%</b>		31D03	20%			
	H1A1	10%		<b>Total</b>	<b>100%</b>			
<b>H1</b>	H1A2	10%		H1D1	10%			
	H1A3	40%	<b>H1</b>	H1D2	10%			
	H1A4	40%		H1D3	40%			
	<b>Total</b>	<b>100%</b>		H1D4	40%			
				<b>Total</b>	<b>100%</b>			

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

## **APPENDIX A-9**

# 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%	25%	25%	0%	0%	100%	09L	09LD01	40%	20%	20%	10%	10%	100%
	09LA02	50%	20%	20%	5%	5%	100%		09LD02	40%	25%	25%	0%	10%	100%
	09LA03	30%	20%	20%	15%	15%	100%	27R	27RD01	40%	20%	20%	10%	10%	100%
27R	27RA01	50%	25%	25%	0%	0%	100%		27RD02	40%	30%	30%	0%	0%	100%
	27RA02	60%	15%	15%	10%	0%	100%		27RD03	20%	20%	20%	20%	20%	100%
	27RA03	40%	30%	30%	0%	0%	100%		27RD04	20%	20%	20%	20%	20%	100%
09R	09RA01	40%	30%	30%	0%	0%	100%		27RD05	40%	30%	30%	0%	0%	100%
	09RA02	60%	20%	20%	0%	0%	100%	09R	09RD01	50%	25%	25%	0%	0%	100%
27L	27LA01	40%	30%	30%	0%	0%	100%		09RD02	34%	33%	33%	0%	0%	100%
	27LA02	50%	25%	25%	0%	0%	100%		09RD03	34%	33%	33%	0%	0%	100%
	27LA03	50%	20%	20%	10%	0%	100%	27L	27LD01	40%	20%	20%	10%	10%	100%
13	13A01	70%	15%	15%	0%	0%	100%		27LD02	20%	20%	20%	20%	20%	100%
	13A02	40%	30%	30%	0%	0%	100%		27LD03	20%	20%	20%	20%	20%	100%
	13A03	70%	15%	15%	0%	0%	100%		27LD04	20%	20%	20%	20%	20%	100%
31	31A01	100%	0%	0%	0%	0%	100%	13	13D01	40%	30%	30%	0%	0%	100%
	31A02	34%	33%	33%	0%	0%	100%		13D02	40%	30%	30%	0%	0%	100%
	31A03	34%	33%	33%	0%	0%	100%		13D03	40%	20%	20%	10%	10%	100%
	31A04	34%	33%	33%	0%	0%	100%	31	31D01	20%	20%	20%	20%	20%	100%
	31A05	34%	33%	33%	0%	0%	100%		31D02	20%	20%	20%	20%	20%	100%
							31D03		50%	25%	25%	0%	0%	100%	

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