

APPENDIX B

Aircraft Activity Forecast

This appendix includes the forecast approval for the Fort Lauderdale-Hollywood International Airport Part 150 Study.

- Appendix B-1 FAA Approval of Forecast
- Appendix B-2 Operational Data

APPENDIX B-1

FAA Approval of Forecast



U.S. Department
of Transportation
**Federal Aviation
Administration**

ORLANDO AIRPORTS DISTRICT OFFICE
5950 Hazeltine National Drive
Suite 400
Orlando, FL 32822
Phone: (407) 812-6331 Fax: (407) 812-6978

April 10, 2017

Mr. William Castillo
Airport Planning Manager
Broward County Aviation Department
2200 SW 45th Street, Suite 101
Dania Beach, Florida 33312

Dear Mr. Castillo:

RE: Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, FL
Approval of Forecast for use in the 14 CFR Part 150 Study

This letter responds to your request for approval to use the Accelerated Baseline Forecasts for the purposes of the 14 Code of Federal Regulations (CFR) Part 150 Study for the Fort Lauderdale-Hollywood International Airport (FLL).

On January 13, 2017, the Federal Aviation Administration (FAA) approved the Baseline Forecast for FLL and accepted the Accelerated Baseline Forecast prepared in the Master Plan Update for sensitivity purposes and for the purpose of establishing facility requirements.

The FAA notes that the Accelerated Baseline Forecast varies less than 10 percent in the 5 year period and 15 percent in the 10 year period from the FAA's 2016 Terminal Area Forecast (TAF) published in January, 2017.

The FAA has determined that the Accelerated Baseline Forecast is consistent with the FAA's most recent TAF for FLL, and therefore, we approve the use of the Accelerated Baseline Forecast for the ongoing FLL Part 150 Study.

If you have any questions, please feel free to contact me at (407) 812-6331, ext. 130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Allan M. Nagy".

Allan M. Nagy
FAA Orlando ADO Environmental Program Specialist



AVIATION DEPARTMENT - Fort Lauderdale/Hollywood International Airport
2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

February 23, 2017

Allan Nagy
Federal Aviation Administration
Orlando Airports District Office
5950 Hazeltine National Dr., Suite 400
Orlando, Florida 32822-5003

Subject: Fort Lauderdale-Hollywood International Airport
14 CFR Part 150 Study
Approval of Forecast for use in Study

Dear Mr. Nagy:

The Broward County Aviation Department (BCAD) has commenced a 14 Code of Federal Regulations (CFR) Part 150 Study for Fort Lauderdale-Hollywood International Airport (FLL). We are reviewing operational data to develop modeling inputs for the potential study years. We are currently reviewing our submittal schedule and considering study years of either 2017 and 2022 or 2018 and 2023 for the official Noise Exposure Maps and would like to gain concurrence on the forecast activity levels we'll be using for those years.

BCAD submitted Baseline and Accelerated Baseline forecasts for the FLL Master Plan Update on April 2016. On December 15, 2016, BCAD submitted a revised request to approve the Baseline Forecasts as the FAA's Preferred Forecasts and also requested approval to use BCAD's Preferred Forecasts (Accelerated Baseline) as a sensitivity scenario for purposes of establishing facility requirements and developing airport improvement alternatives. This second request was made as we believe the Baseline Forecasts understate the Airport's anticipated growth. On January 13, 2017, Federal Aviation Administration (FAA) approved the Baseline Forecasts and accepted the use of Broward County Aviation Department's preferred Accelerated Baseline Forecasts for sensitivity purposes (enclosed).

From 2013 through 2016, FLL has been one of the fastest growing airports in the U.S., particularly since the opening of the south runway in September 2014. In addition, several of FLL's airline partners have indicated their intentions and commitment to add more flights at the Airport upon completion of the ongoing Terminal Modernization Programs on or near fiscal year 2018, which will yield an additional eight (8) gates, resulting in 66 total gates at FLL. Consistent with the Accelerated Baseline Forecasts prepared as part of the Master Plan Update, it is our belief, that the growth trends and activity levels may in all likelihood materialize sooner/faster than what the Baseline forecasts suggest, assuming facility or

infrastructure constraints do not hinder the airlines' desired growth plans. A summary comparing FAA's 2016 Terminal Area Forecast (TAF) (published January 2017) and the Accelerated Baseline Forecasts are provided in Table 1.

As indicated in Table 1, the Accelerated Baseline Forecasts for the potential NEM study years vary less than 10 percent in the five year period and 15 percent in the ten year period relative to the newly released TAF, and are more consistent with an unconstrained growth scenario at FLL. As a result, the Accelerated Baseline Forecasts are considered consistent with the FAA's most recent TAF for FLL, and, as such, Broward County requests approval to use the accelerated baseline for the purposes of the Part 150 study.

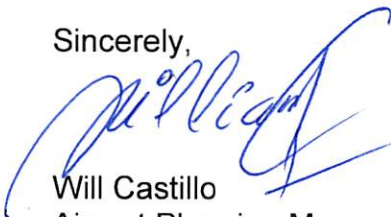
Table 1
Comparison of Forecasts

Fiscal Year	2016 TAF	Accelerated Baseline Forecasts	Difference Between TAF and Accelerated Baseline
2017	304,590	329,300	8.1%
2018	311,559	335,000	7.5%
2022	336,993	358,607	6.4%
2023	343,194	364,765	6.3%

Sources: Ricondo & Associates, 2016; ESA, 2017. FAA 2016 TAF, published January 2017.

We appreciate the FAA's support on the 14 CFR Part 150 project and look forward to working with you. Please contact me at 954-359-2291 or wcastillo@broward.org with any questions or for further coordination.

Sincerely,



Will Castillo
Airport Planning Manager

ENCLOSURE

cc: Winston Cannicle, BCAD
Mike Pacitto, BCAD
Mike Arnold, ESA
Vernon Rupinta, FAA
Marisol Elliot, FAA



U.S. Department
of Transportation
**Federal Aviation
Administration**

ORLANDO AIRPORTS DISTRICT OFFICE
5950 Hazeltine National Dr., Suite 400
Orlando, Florida 32822-5003
Phone: (407) 812-6331 Fax: (407) 812-6978

January 13, 2017

Mr. William Castillo
Airport Planning Manager
Broward County Aviation Department
2200 SW 45th Street, Suite 101
Dania Beach, Florida 33312

Dear Mr. Castillo:

RE: Fort Lauderdale International Airport, Fort Lauderdale, Florida
Approval of Airport Forecasts for Airport Master Plan Update

This letter responds to your request made December 15, 2016 regarding the approval of two interrelated and co-dependent aviation activity forecasts for Fort Lauderdale International Airport. First, the FAA's Airports District Office (ADO) approves the Baseline Forecasts summarized in Table A-1 of the *Aviation Activity Forecasts Report*, dated June 2016. Second, the FAA's ADO also accepts the use of Broward County Aviation Department's preferred Accelerated Baseline Forecasts summarized in Table A-2 of the prior referenced report. It is our understanding that the Accelerated Forecasts will be used as a sensitivity scenario for purposes of establishing facility requirements and considered in developing airport improvement alternatives.

If you have any questions, please feel free to contact me at (407) 812-6331, ext. 117.

Sincerely,

A handwritten signature in blue ink that reads "Marisol C. Elliott".

Marisol C. Elliott
Community Planner

cc: Pete Ricondo, Ricondo & Associates

APPENDIX B-2

Operational Data

APPENDIX B-2

Operational Data

The tables in this appendix provide the aircraft operations data for FLL used in the AEDT to model noise exposure in 2018 and 2023. Average Annual Day (AAD) operations are required for use in 14 CFR Part 150, as modeled by the AEDT. This appendix includes the following summary tables:

- Table B-2.1: 2018 Annual Average Day AEDT Aircraft Arrival Operations
- Table B-2.2: 2018 Annual Average Day AEDT Aircraft Departure Operations
- Table B-2.3: 2023 Annual Average Day AEDT Aircraft Arrival Operations
- Table B-2.4: 2023 Annual Average Day AEDT Aircraft Departure Operations

The data utilized to develop the above summary tables is provided in:

- Table B-2.5: Annual Aircraft Operations by Time of Day – 2018 Conditions
- Table B-2.6: Annual Aircraft Operations by Time of Day – 2023 Conditions
- Table B-2.7: Departure Stage Length by AEDT Aircraft Type – 2018 Conditions
- Table B-2.8: Departure Stage Length by AEDT Aircraft Type – 2023 Conditions
- Table B-2.9: Arrival Runway Use by Aircraft Category and Time of Day – 2018 Conditions
- Table B-2.10: Departure Runway Use by Aircraft Category and Time of Day – 2018 Conditions
- Table B-2.11: Arrival Runway Use by Aircraft Category and Time of Day – 2023 Conditions
- Table B-2.12: Departure Runway Use by Aircraft Category and Time of Day – 2023 Conditions
- Table B-2.13: Arrival Flight Track Use – 2018 Conditions
- Table B-2.14: Departure Flight Track Use – 2018 Conditions

- Table B-2.15: Arrival Flight Track Use – 2023 Conditions
- Table B-2.16: Departure Flight Track Use – 2023 Conditions

**TABLE B-2.1
2018 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total
Widebody	7478	2GE045	0.0033	0.0000	0.0033
	Airbus A300B4-600 Series	CF680C	0.0299	0.0199	0.0498
	Airbus A300F4-600 Series	1PW056	0.7586	0.5047	1.2633
	Airbus A310-300 Series	1PW027	0.0896	0.0000	0.0896
	Airbus A330-300 Series	1PW059	0.1234	0.6236	0.7470
	B787-8R	2GE048	1.2683	0.0564	1.3247
	Boeing 747-400 Series	1GE024	0.0100	0.0000	0.0100
	Boeing 767-200 Series	2GE039	0.0100	0.0000	0.0100
	Boeing 767-200 Series	5PW074	0.1434	0.0425	0.1859
	Boeing 767-300 Series	1RR011	2.6872	0.2694	2.9566
	Boeing 767-400	3GE058	0.0317	0.0032	0.0349
	Boeing 777-200 Series	1PW041	0.0100	0.0050	0.0149
	Boeing 777-300 ER	7GE099	0.0066	0.0000	0.0066
	Boeing 777-300 Series	6GE091	0.0548	0.0000	0.0548
	Boeing DC-10-10 Series	3GE076	0.4142	0.7396	1.1537
	Boeing DC-10-30 Series	1GE009	0.1394	0.0730	0.2125
	Boeing MD-11	1PW056	0.1465	0.0195	0.1660
	Boeing MD-11	CF680C	0.3236	0.0200	0.3436
Narrowbody	Airbus A319-100 Series	7CM050	23.5724	4.7781	28.3505
	Airbus A320-200 Series	2CM018	14.5832	3.7290	18.3121
	Airbus A320-200 Series	3IA007	75.9510	22.0059	97.9569
	Airbus A321-200 Series	1IA005	31.0801	8.9888	40.0689
	Boeing 717-200 Series	4BR002	2.5189	0.5124	3.0313
	Boeing 727-100 Series	1PW010	0.0332	0.0199	0.0531
	Boeing 727-200 Series	1PW015	0.0266	0.0000	0.0266
	Boeing 737-100 Series	1PW006	0.0066	0.0033	0.0100
	Boeing 737-300 Series	1CM004	7.3273	1.4163	8.7435
	Boeing 737-400 Series	1CM005	0.0863	0.0398	0.1262
	Boeing 737-500 Series	CFM3B4	3.1907	0.0132	3.2039
	Boeing 737-700 Series	1CM007	43.6563	4.7876	48.4439
	Boeing 737-800 Series	4CM039	42.5685	9.4512	52.0197
	Boeing 757-200 Series	1RR012	1.1963	0.8008	1.9971
	Boeing 757-200 Series	4PW073	7.6104	1.9566	9.5669
	Boeing 757-300 Series	XPW204	1.0492	0.3851	1.4343
	Boeing DC-9-30 Series	1PW008	0.0087	0.0029	0.0116
	Boeing MD-81	4PW068	0.0100	0.0100	0.0199
	Boeing MD-82	1PW018	0.1009	0.0236	0.1245
	Boeing MD-83	4PW068	5.6829	0.7715	6.4543
Boeing MD-90	1IA004	1.9886	0.0964	2.0850	
Regional Jet	Bombardier Challenger 600	5GE084	4.8985	0.5332	5.4317
	Bombardier Challenger 601	1GE034	0.0116	0.0000	0.0116
	Bombardier CRJ-900	6GE092	1.2716	0.0000	1.2716
	Bombardier Global 5000 Business	4BR009	0.7238	0.1328	0.8566
	Bombardier Global Express	4BR002	0.5279	0.0465	0.5744

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total
	Embraer ERJ145	6AL008	1.6573	0.1638	1.8211
	Embraer ERJ145-LR	6AL007	0.5551	0.1089	0.6640
	Embraer ERJ170	6GE095	0.6326	0.0132	0.6458
	Embraer ERJ175	6GE095	0.0033	0.0000	0.0033
	Embraer ERJ190	6GE094	25.3388	2.5203	27.8592
General Aviation Jet	Bombardier Learjet 25	CJ6106	0.0116	0.0116	0.0232
	Bombardier Learjet 35	1AS002	7.9479	2.1818	10.1297
	Bombardier Learjet 60	PW 305 SER	0.3655	0.0296	0.3951
	Cessna 500 Citation I	1PW035	2.0558	0.1272	2.1830
	Cessna 550 Citation II	1PW036	2.7209	0.2572	2.9782
	Cessna 560 Citation V	1PW037	0.9441	0.0934	1.0375
	Cessna 560 Citation V	PW530	0.2436	0.0237	0.2673
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	2.0286	0.1295	2.1581
	Cessna 650 Citation III	1AS001	0.3657	0.0194	0.3851
	Cessna 680 Citation Sovereign	7PW080	0.8973	0.0655	0.9628
	Cessna 750 Citation X	6AL021	2.9811	0.3440	3.3251
	Cessna 750 Citation X	AE 3007C2	0.0315	0.0000	0.0315
	CESSNA CITATION 510	PW615F	0.5080	0.0266	0.5345
	Dassault Falcon 20-C	1AS002	0.1270	0.0207	0.1477
	Dassault Falcon 900	TFE 731 SER	0.1472	0.0171	0.1643
	Eclipse 500 / PW610F	PW610F-A	0.1693	0.0033	0.1726
	Gulfstream G400	6RR042	2.7196	0.4444	3.1641
	Gulfstream G500	3BR001	1.4137	0.3426	1.7563
	Gulfstream II-B	1RR016	0.2125	0.0199	0.2324
	Israel IAI-1121 Commodore	CJ6102	0.8495	0.1117	0.9612
Mitsubishi MU-300 Diamond	1PW037	1.0201	0.0640	1.0840	
T-38 Talon	J855HA	0.0033	0.0000	0.0033	
General Aviation Turboprop	Britten-Norman BN-2 Islander	250B17	0.0382	0.0000	0.0382
	Cessna 208 Caravan	PT6A14	10.8092	0.1157	10.9249
	Cessna 441 Conquest II	TPE8	0.3397	0.0122	0.3519
	DeHavilland DHC-6-300 Twin Otter	PT6A42	5.2349	0.2897	5.5247
	DeHavilland DHC-8-100	PW120A	0.0149	0.0000	0.0149
	DeHavilland DHC-8-300	PW123B	2.3374	0.0132	2.3506
	EADS Socata TBM-700	PT6A-66 SER	0.1160	0.0068	0.1228
	Embraer EMB120 Brasilia	PW118	0.0075	0.0025	0.0100
	Piper PA-42 Cheyenne Series	PT6A41	2.5344	0.0287	2.5631
	Raytheon Beech 1900-D	PT67D	0.0764	0.0000	0.0764
	Saab 340-B	CT7-5	24.2202	0.5264	24.7465
	Shorts 330	PT6A45	0.0315	0.0000	0.0315
General Aviation Piston	1985 1-ENG COMP	TIO540	1.1281	0.0455	1.1737
	Boeing DC-3	R1820	0.0216	0.0000	0.0216
	Cessna 150 Series	O200	0.7123	0.0513	0.7636
	Cessna 172 Skyhawk	IO360	0.7838	0.0363	0.8201
	Cessna 182	IO360	0.2817	0.0188	0.3005
	Cessna 182 Float	TSIO36	0.0033	0.0000	0.0033
	Cessna 206	TIO540	0.7317	0.0153	0.7470

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	0.0033	0.0000	0.0033
	Piper PA-24 Comanche	TIO540	0.8024	0.0393	0.8417
	Piper PA-28 Cherokee Series	IO320	0.0083	0.0000	0.0083
	Piper PA-30 Twin Comanche	IO320	0.1202	0.0126	0.1328
	Raytheon Beech 55 Baron	TIO540	5.1429	0.1063	5.2491
	Aerospatiale SA-350D Astar (AS-350)	TPE3	0.0116	0.0000	0.0116
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	0.0116	0.0000	0.0116
	Agusta A119	250B17	0.0332	0.0000	0.0332
	Bell 206 JetRanger	250B17	0.0149	0.0000	0.0149
	Bell 214B-1	T53L13	0.0066	0.0000	0.0066
Helicopter	Bell 407 / Rolls-Royce 250-C47B	250B17	0.0133	0.0000	0.0133
	Bell 430	250B17	0.0159	0.0040	0.0199
	Eurocopter EC-130	TPE3	0.0149	0.0100	0.0249
	Hughes 500D	250B17	0.0033	0.0000	0.0033
	Robinson R22B	IO320	0.0083	0.0000	0.0083
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	0.0133	0.0000	0.0133
	Sikorsky S-76 Spirit	T70070	0.0183	0.0000	0.0183
All Aircraft			387.5482	71.3559	458.9041
SOURCE: Environmental Science Associates, 2018.					

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**TABLE B-2.2
2018 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
Widebody	7478	2GE045	0.0033														0.0033		0.0033
	Airbus A300B4-600 Series	CF680C			0.0432	0.0066											0.0432	0.0066	0.0498
	Airbus A300F4-600 Series	1PW056	0.0869		1.0661	0.1103											1.1530	0.1103	1.2633
	Airbus A310-300 Series	1PW027	0.0033		0.0033		0.0830										0.0896		0.0896
	Airbus A330-300 Series	1PW059	0.0132				0.0198				0.0033	0.0231	0.6875				0.7239	0.0231	0.7470
	B787-8R	2GE048			0.0033							1.0458	0.2756				0.2789	1.0458	1.3247
	Boeing 747-400 Series	1GE024	0.0033				0.0066										0.0100		0.0100
	Boeing 767-200 Series	2GE039	0.0100														0.0100		0.0100
	Boeing 767-200 Series	5PW074		0.0044	0.0133	0.0133	0.1505	0.0044									0.1638	0.0221	0.1859
	Boeing 767-300 Series	1RR011	0.0327	0.0262	0.3110	0.0229	2.3476	0.1997	0.0164								2.7077	0.2488	2.9566
	Boeing 767-400	3GE058	0.0035		0.0279		0.0035										0.0349		0.0349
	Boeing 777-200 Series	1PW041			0.0050							0.0050	0.0050				0.0100	0.0050	0.0149
	Boeing 777-300 ER	7GE099	0.0033	0.0033													0.0033	0.0033	0.0066
	Boeing 777-300 Series	6GE091												0.0034	0.0514		0.0514	0.0034	0.0548
	Boeing DC-10-10 Series	3GE076	0.0134	0.0034	1.0833	0.0537											1.0967	0.0570	1.1537
	Boeing DC-10-30 Series	1GE009	0.0066		0.1726	0.0299			0.0033								0.1826	0.0299	0.2125
	Boeing MD-11	1PW056			0.1321	0.0339											0.1321	0.0339	0.1660
	Boeing MD-11	CF680C	0.0033		0.2709	0.0694											0.2742	0.0694	0.3436
Narrowbody	Airbus A319-100 Series	7CM050	2.0113	0.2593	19.0954	1.2566	3.2247	0.7347	1.6090	0.1562	0.0033						25.9437	2.4069	28.3505
	Airbus A320-200 Series	2CM018	0.3181	0.1060	9.1461	1.3951	2.9592	0.1193	4.1754	0.0928							16.5989	1.7132	18.3121
	Airbus A320-200 Series	3IA007	6.2106	1.0201	45.8315	8.9676	21.5189	3.4804	10.4711	0.4500	0.0067						84.0388	13.9181	97.9569
	Airbus A321-200 Series	1IA005	2.4363	0.0599	26.2766	5.8777	4.3700	0.3728	0.6523	0.0233							33.7352	6.3337	40.0689
	Boeing 717-200 Series	4BR002	0.0167		2.9846	0.0300											3.0013	0.0300	3.0313
	Boeing 727-100 Series	1PW010	0.0133	0.0066	0.0066	0.0033	0.0033	0.0033	0.0100	0.0066							0.0332	0.0199	0.0531
	Boeing 727-200 Series	1PW015	0.0266														0.0266		0.0266
	Boeing 737-100 Series	1PW006	0.0033	0.0033		0.0033											0.0033	0.0066	0.0100
	Boeing 737-300 Series	1CM004	0.9185	0.1061	6.1705	1.2368	0.3050	0.0033	0.0033								7.3974	1.3462	8.7435
	Boeing 737-400 Series	1CM005	0.0100	0.0332	0.0199	0.0398	0.0166	0.0066									0.0465	0.0797	0.1262
	Boeing 737-500 Series	CFM3B4	3.1237	0.0735	0.0033	0.0033											3.1271	0.0768	3.2039
	Boeing 737-700 Series	1CM007	4.5519	0.6009	25.4122	4.2066	11.8097	0.4051	1.4443	0.0133							43.2180	5.2259	48.4439
	Boeing 737-800 Series	4CM039	2.0735	0.0731	28.6166	4.2633	13.5075	0.4154	2.8610	0.2093							47.0586	4.9611	52.0197
	Boeing 757-200 Series	1RR012	0.0569	0.0167	0.8798	1.0102			0.0301			0.0033					0.9667	1.0303	1.9971
	Boeing 757-200 Series	4PW073	0.0332	0.0166	7.9111	1.2444	0.3219	0.0066	0.0265				0.0033		0.0033		8.2993	1.2676	9.5669
	Boeing 757-300 Series	XPW204	0.0033		1.0890	0.0697	0.2689	0.0033									1.3613	0.0730	1.4343
	Boeing DC-9-30 Series	1PW008	0.0039		0.0039	0.0039											0.0077	0.0039	0.0116
	Boeing MD-81	4PW068	0.0066	0.0033	0.0066	0.0033											0.0133	0.0066	0.0199
	Boeing MD-82	1PW018	0.0066	0.0197	0.0197	0.0033	0.0721	0.0033									0.0983	0.0262	0.1245
	Boeing MD-83	4PW068	0.1160	0.0298	6.1129	0.0729	0.1094	0.0133									6.3383	0.1160	6.4543
Boeing MD-90	1IA004	0.0033		1.6740	0.0199	0.3812	0.0066									2.0585	0.0265	2.0850	
Regional Jet	Bombardier Challenger 600	5GE084	5.1373	0.2944													5.1373	0.2944	5.4317
	Bombardier Challenger 601	1GE034	0.0116														0.0116		0.0116
	Bombardier CRJ-900	6GE092	0.0332		1.2384												1.2716		1.2716
	Bombardier Global 5000 Business	4BR009	0.3453	0.0266	0.2390	0.0100	0.1096	0.0100	0.0299		0.0066	0.0199	0.0564		0.0033		0.7902	0.0664	0.8566

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
	Bombardier Global Express	4BR002	0.2324	0.0199	0.1295	0.0033	0.0963	0.0033	0.0133	0.0033	0.0066	0.0166	0.0332	0.0166			0.5279	0.0465	0.5744
	Embraer ERJ145	6AL008	1.1277	0.1111	0.4982	0.0303	0.0202		0.0303	0.0034							1.6763	0.1447	1.8211
	Embraer ERJ145-LR	6AL007	0.6388	0.0094	0.0126		0.0031										0.6546	0.0094	0.6640
	Embraer ERJ170	6GE095	0.1874		0.3781	0.0033	0.0703	0.0067									0.6357	0.0100	0.6458
	Embraer ERJ175	6GE095			0.0033												0.0033		0.0033
	Embraer ERJ190	6GE094	9.7657	0.3661	12.0723	1.9671	3.3151	0.3728									25.1531	2.7060	27.8592
General Aviation Jet	Bombardier Learjet 25	CJ6106	0.0194	0.0039													0.0194	0.0039	0.0232
	Bombardier Learjet 35	1AS002	8.9835	1.1462													8.9835	1.1462	10.1297
	Bombardier Learjet 60	PW 305 SER	0.3616	0.0335													0.3616	0.0335	0.3951
	Cessna 500 Citation I	1PW035	2.0776	0.1054													2.0776	0.1054	2.1830
	Cessna 550 Citation II	1PW036	2.8277	0.1504													2.8277	0.1504	2.9782
	Cessna 560 Citation V	1PW037	0.9781	0.0595													0.9781	0.0595	1.0375
	Cessna 560 Citation V	PW530	0.2542	0.0130													0.2542	0.0130	0.2673
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	2.0684	0.0896													2.0684	0.0896	2.1581
	Cessna 650 Citation III	1AS001	0.3647	0.0204													0.3647	0.0204	0.3851
	Cessna 680 Citation Sovereign	7PW080	0.8989	0.0640													0.8989	0.0640	0.9628
	Cessna 750 Citation X	6AL021	3.1265	0.1986													3.1265	0.1986	3.3251
	Cessna 750 Citation X	AE 3007C2	0.0315														0.0315		0.0315
	CESSNA CITATION 510	PW615F	0.5047	0.0299													0.5047	0.0299	0.5345
	Dassault Falcon 20-C	1AS002	0.1108	0.0369													0.1108	0.0369	0.1477
	Dassault Falcon 900	TFE 731 SER	0.1515	0.0129													0.1515	0.0129	0.1643
	Eclipse 500 / PW610F	PW610F-A	0.0598	0.0033	0.0963	0.0066	0.0033	0.0033									0.1594	0.0133	0.1726
	Gulfstream G400	6RR042	2.8683	0.2958													2.8683	0.2958	3.1641
	Gulfstream G500	3BR001	1.5575	0.1988													1.5575	0.1988	1.7563
	Gulfstream II-B	1RR016	0.2125	0.0199													0.2125	0.0199	0.2324
	Israel IAI-1121 Commodore	CJ6102	0.8928	0.0684													0.8928	0.0684	0.9612
Mitsubishi MU-300 Diamond	1PW037	1.0251	0.0589													1.0251	0.0589	1.0840	
T-38 Talon	J855HA	0.0033														0.0033		0.0033	
General Aviation Turboprop	Britten-Norman BN-2 Islander	250B17	0.0382														0.0382		0.0382
	Cessna 208 Caravan	PT6A14	10.6613	0.2635													10.6613	0.2635	10.9249
	Cessna 441 Conquest II	TPE8	0.3374	0.0145													0.3374	0.0145	0.3519
	DeHavilland DHC-6-300 Twin Otter	PT6A42	5.2910	0.2337													5.2910	0.2337	5.5247
	DeHavilland DHC-8-100	PW120A	0.0149														0.0149		0.0149
	DeHavilland DHC-8-300	PW123B	2.3173	0.0334													2.3173	0.0334	2.3506
	EADS Socata TBM-700	PT6A-66 SER	0.1228														0.1228		0.1228
	Embraer EMB120 Brasilia	PW118	0.0100														0.0100		0.0100
	Piper PA-42 Cheyenne Series	PT6A41	2.5216	0.0415													2.5216	0.0415	2.5631
	Raytheon Beech 1900-D	PT67D	0.0668		0.0095												0.0764		0.0764
	Saab 340-B	CT7-5	23.9574	0.7425	0.0466												24.0040	0.7425	24.7465
	Shorts 330	PT6A45	0.0315														0.0315		0.0315
	1985 1-ENG COMP	TIO540	1.1296	0.0441													1.1296	0.0441	1.1737
Boeing DC-3	R1820	0.0216														0.0216		0.0216	
General Aviation Piston	Cessna 150 Series	O200	0.7120	0.0516													0.7120	0.0516	0.7636
	Cessna 172 Skyhawk	IO360	0.7217	0.0984													0.7217	0.0984	0.8201
	Cessna 182	IO360	0.2863	0.0141													0.2863	0.0141	0.3005

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
	Cessna 182 Float	TSIO36	0.0033														0.0033		0.0033
	Cessna 206	TIO540	0.7180	0.0109	0.0073		0.0109										0.7361	0.0109	0.7470
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	0.0033														0.0033		0.0033
	Piper PA-24 Comanche	TIO540	0.8147	0.0269													0.8147	0.0269	0.8417
	Piper PA-28 Cherokee Series	IO320	0.0083														0.0083		0.0083
	Piper PA-30 Twin Comanche	IO320	0.1258	0.0070													0.1258	0.0070	0.1328
	Raytheon Beech 55 Baron	TIO540	4.9414	0.3077													4.9414	0.3077	5.2491
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	0.0116														0.0116		0.0116
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	0.0116														0.0116		0.0116
	Agusta A119	250B17	0.0299	0.0033													0.0299	0.0033	0.0332
	Bell 206 JetRanger	250B17	0.0149														0.0149		0.0149
	Bell 214B-1	T53L13	0.0066														0.0066		0.0066
	Bell 407 / Rolls-Royce 250-C47B	250B17	0.0133														0.0133		0.0133
	Bell 430	250B17	0.0171	0.0028													0.0171	0.0028	0.0199
	Eurocopter EC-130	TPE3	0.0224	0.0025													0.0224	0.0025	0.0249
	Hughes 500D	250B17	0.0033														0.0033		0.0033
	Robinson R22B	IO320	0.0083														0.0083		0.0083
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	0.0133														0.0133		0.0133
	Sikorsky S-76 Spirit	T70070	0.0183														0.0183		0.0183
All Aircraft			124.0111	7.8011	199.1236	32.0718	65.1083	6.1742	21.3762	0.9583	0.0266	1.1138	1.0610	0.0034	0.0746		410.7815	48.1226	458.9041

SOURCE: Environmental Science Associates, 2018.

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TABLE B-2.3
2023 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total	
Widebody	7478	2GE045	0.0041		0.0041	
	Airbus A300B4-600 Series	CF680C	0.0372	0.0248	0.0620	
	Airbus A300F4-600 Series	1PW056	0.2832	0.1884	0.4716	
	Airbus A310-300 Series	1PW027	0.1115		0.1115	
	Airbus A330-300 Series	1PW059	0.0384	0.1940	0.2324	
	B787-8R	2GE048	1.7359	0.0773	1.8131	
	Boeing 747-400 Series	1GE024	0.0124		0.0124	
	Boeing 767-200 Series	2GE039	0.0124		0.0124	
	Boeing 767-200 Series	5PW074	0.2231	0.0661	0.2892	
	Boeing 767-300 Series	1RR011	4.1794	0.4190	4.5984	
	Boeing 767-400	3GE058	0.0394	0.0039	0.0434	
	Boeing 777-200 Series	1PW041	0.0186	0.0093	0.0279	
	Boeing 777-300 ER	7GE099	0.0124		0.0124	
	Boeing 777-300 Series	6GE091	0.2045		0.2045	
	Boeing DC-10-10 Series	3GE076	0.1288	0.2301	0.3589	
	Boeing DC-10-30 Series	1GE009	0.0434	0.0227	0.0661	
	Boeing MD-11	1PW056	0.0456	0.0061	0.0516	
	Boeing MD-11	CF680C	0.1007	0.0062	0.1069	
	Narrowbody	Airbus A319-100 Series	7CM050	7.3326	1.4863	8.8189
		Airbus A320-200 Series	2CM018	19.9598	5.1038	25.0636
Airbus A320-200 Series		3IA007	103.9533	30.1193	134.0725	
Airbus A321-200 Series		1IA005	42.5389	12.3029	54.8419	
Boeing 717-200 Series		4BR002	0.3134	0.0638	0.3772	
Boeing 727-100 Series		1PW010	0.0413	0.0248	0.0661	
Boeing 727-200 Series		1PW015	0.0330		0.0330	
Boeing 737-100 Series		1PW006	0.0083	0.0041	0.0124	
Boeing 737-300 Series		1CM004	0.9117	0.1762	1.0879	
Boeing 737-400 Series		1CM005	0.1074	0.0496	0.1570	
Boeing 737-500 Series		CFM3B4	3.9701	0.0164	3.9865	
Boeing 737-700 Series		1CM007	40.7399	4.4678	45.2077	
Boeing 737-800 Series		4CM039	58.2630	12.9357	71.1988	
Boeing 757-200 Series		1RR012	0.3721	0.2491	0.6212	
Boeing 757-200 Series		4PW073	2.3673	0.6086	2.9759	
Boeing 757-300 Series		XPW204	0.3264	0.1198	0.4462	
Boeing DC-9-30 Series		1PW008	0.0108	0.0036	0.0145	
Boeing MD-81		4PW068	0.0031	0.0031	0.0062	
Boeing MD-82		1PW018	0.0314	0.0073	0.0387	
Boeing MD-83		4PW068	1.7677	0.2400	2.0077	
Boeing MD-90	1IA004	2.4743	0.1200	2.5943		
Regional Jet	Bombardier Challenger 600	5GE084	4.9765	0.5417	5.5182	
	Bombardier Challenger 601	1GE034	0.0131		0.0131	
	Bombardier CRJ-900	6GE092	1.5822		1.5822	

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total
	Bombardier Global 5000 Business	4BR009	0.9625	0.1766	1.1391
	Bombardier Global Express	4BR002	0.8665	0.0763	0.9428
	Embraer ERJ145	6AL008	1.6984	0.1678	1.8662
	Embraer ERJ145-LR	6AL007	0.5418	0.1063	0.6481
	Embraer ERJ170	6GE095	0.0787	0.0016	0.0803
	Embraer ERJ175	6GE095	0.0041		0.0041
	Embraer ERJ190	6GE094	31.5282	3.1359	34.6641
	Bombardier Learjet 25	CJ6106	0.0131	0.0131	0.0262
	Bombardier Learjet 35	1AS002	8.1653	2.2415	10.4068
	Bombardier Learjet 60	PW 305 SER	0.4120	0.0334	0.4454
	Cessna 500 Citation I	1PW035	2.1846	0.1352	2.3198
	Cessna 550 Citation II	1PW036	2.7705	0.2619	3.0325
	Cessna 560 Citation V	1PW037	1.0643	0.1053	1.1696
	Cessna 560 Citation V	PW530	0.2746	0.0267	0.3013
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	2.0066	0.1281	2.1347
	Cessna 650 Citation III	1AS001	0.4123	0.0219	0.4342
	Cessna 680 Citation Sovereign	7PW080	1.0115	0.0738	1.0854
General Aviation Jet	Cessna 750 Citation X	6AL021	2.9559	0.3411	3.2970
	Cessna 750 Citation X	AE 3007C2	0.0356		0.0356
	CESSNA CITATION 510	PW615F	0.5726	0.0299	0.6026
	Dassault Falcon 20-C	1AS002	0.1432	0.0234	0.1665
	Dassault Falcon 900	TFE 731 SER	0.1660	0.0193	0.1853
	Eclipse 500 / PW610F	PW610F-A	0.1909	0.0037	0.1946
	Gulfstream G400	6RR042	2.7242	0.4452	3.1694
	Gulfstream G500	3BR001	1.3874	0.3362	1.7236
	Gulfstream II-B	1RR016	0.2395	0.0225	0.2620
	Israel IAI-1121 Commodore	CJ6102	0.9576	0.1259	1.0835
	Mitsubishi MU-300 Diamond	1PW037	1.0420	0.0653	1.1073
	Britten-Norman BN-2 Islander	250B17	0.0430		0.0430
	Cessna 208 Caravan	PT6A14	11.3621	0.1216	11.4837
	Cessna 441 Conquest II	TPE8	0.3829	0.0138	0.3967
	DeHavilland DHC-6-300 Twin Otter	PT6A42	5.3017	0.2934	5.5952
	DeHavilland DHC-8-100	PW120A	0.0168		0.0168
General Aviation Turboprop	DeHavilland DHC-8-300	PW123B	2.2347	0.0126	2.2473
	EADS Socata TBM-700	PT6A-66 SER	0.1308	0.0077	0.1385
	Embraer EMB120 Brasilia	PW118	0.0084	0.0028	0.0112
	Piper PA-42 Cheyenne Series	PT6A41	2.6414	0.0299	2.6714
	Raytheon Beech 1900-D	PT67D	0.0861		0.0861
	Saab 340-B	CT7-5	23.1528	0.5032	23.6559
	Shorts 330	PT6A45	0.0356		0.0356
	1985 1-ENG COMP	TIO540	1.2717	0.0513	1.3230
General Aviation Piston	Boeing DC-3	R1820	0.0243		0.0243
	Cessna 150 Series	O200	0.8029	0.0579	0.8608
	Cessna 172 Skyhawk	IO360	0.8836	0.0409	0.9244

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Day	Night	Total
	Cessna 182	IO360	0.3175	0.0212	0.3387
	Cessna 182 Float	TSIO36	0.0037		0.0037
	Cessna 206	TIO540	0.8248	0.0173	0.8421
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	0.0037		0.0037
	Piper PA-24 Comanche	TIO540	0.9045	0.0443	0.9488
	Piper PA-28 Cherokee Series	IO320	0.0094		0.0094
	Piper PA-30 Twin Comanche	IO320	0.1354	0.0143	0.1497
	Raytheon Beech 55 Baron	TIO540	5.7974	0.1198	5.9172
	Aerospatiale SA-350D Astar (AS-350)	TPE3	0.0131		0.0131
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	0.0131		0.0131
	Agusta A119	250B17	0.0374		0.0374
	Bell 206 JetRanger	250B17	0.0168		0.0168
	Bell 214B-1	T53L13	0.0075		0.0075
Helicopter	Bell 407 / Rolls-Royce 250-C47B	250B17	0.0150		0.0150
	Bell 430	250B17	0.0180	0.0045	0.0225
	Eurocopter EC-130	TPE3	0.0168	0.0112	0.0281
	Hughes 500D	250B17	0.0037		0.0037
	Robinson R22B	IO320	0.0094		0.0094
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	0.0150		0.0150
	Sikorsky S-76 Spirit	T70070	0.0206		0.0206
All Aircraft			420.3007	79.3774	499.6781

SOURCE: Environmental Science Associates, 2018.

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**TABLE B-2.4
2023 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
Widebody	7478	2GE045	0.0041														0.0041		0.0041
	Airbus A300B4-600 Series	CF680C			0.0537	0.0083											0.0537	0.0083	0.0620
	Airbus A300F4-600 Series	1PW056	0.0324		0.3980	0.0412											0.4304	0.0412	0.4716
	Airbus A310-300 Series	1PW027	0.0041		0.0041		0.1033										0.1115		0.1115
	Airbus A330-300 Series	1PW059	0.0041				0.0062				0.0010	0.0072	0.2139				0.2252	0.0072	0.2324
	B787-8R	2GE048			0.0045							1.4314	0.3772				0.3817	1.4314	1.8131
	Boeing 747-400 Series	1GE024	0.0041				0.0083										0.0124		0.0124
	Boeing 767-200 Series	2GE039	0.0124														0.0124		0.0124
	Boeing 767-200 Series	5PW074		0.0069	0.0207	0.0207	0.2341	0.0069									0.2548	0.0344	0.2892
	Boeing 767-300 Series	1RR011	0.0509	0.0407	0.4838	0.0356	3.6512	0.3106	0.0255								4.2114	0.3870	4.5984
	Boeing 767-400	3GE058	0.0043		0.0347		0.0043										0.0434		0.0434
	Boeing 777-200 Series	1PW041			0.0093							0.0093	0.0093				0.0186	0.0093	0.0279
	Boeing 777-300 ER	7GE099	0.0062	0.0062													0.0062	0.0062	0.0124
	Boeing 777-300 Series	6GE091												0.0128	0.1917		0.1917	0.0128	0.2045
	Boeing DC-10-10 Series	3GE076	0.0042	0.0010	0.3370	0.0167											0.3412	0.0177	0.3589
	Boeing DC-10-30 Series	1GE009	0.0021		0.0537	0.0093			0.0010								0.0568	0.0093	0.0661
	Boeing MD-11	1PW056			0.0411	0.0105											0.0411	0.0105	0.0516
	Boeing MD-11	CF680C	0.0010		0.0843	0.0216											0.0853	0.0216	0.1069
Narrowbody	Airbus A319-100 Series	7CM050	0.6256	0.0807	5.9399	0.3909	1.0031	0.2285	0.5005	0.0486	0.0010						8.0702	0.7487	8.8189
	Airbus A320-200 Series	2CM018	0.4354	0.1451	12.5182	1.9095	4.0503	0.1633	5.7148	0.1270							22.7187	2.3449	25.0636
	Airbus A320-200 Series	3IA007	8.5004	1.3962	62.7290	12.2739	29.4527	4.7635	14.3317	0.6160	0.0091						115.0230	19.0496	134.0725
	Airbus A321-200 Series	1IA005	3.3345	0.0820	35.9645	8.0447	5.9812	0.5102	0.8928	0.0319							46.1730	8.6688	54.8419
	Boeing 717-200 Series	4BR002	0.0021		0.3714	0.0037											0.3734	0.0037	0.3772
	Boeing 727-100 Series	1PW010	0.0165	0.0083	0.0083	0.0041	0.0041	0.0041	0.0124	0.0083							0.0413	0.0248	0.0661
	Boeing 727-200 Series	1PW015	0.0330														0.0330		0.0330
	Boeing 737-100 Series	1PW006	0.0041	0.0041		0.0041											0.0041	0.0083	0.0124
	Boeing 737-300 Series	1CM004	0.1143	0.0132	0.7678	0.1539	0.0380	0.0004	0.0004								0.9204	0.1675	1.0879
	Boeing 737-400 Series	1CM005	0.0124	0.0413	0.0248	0.0496	0.0207	0.0083									0.0578	0.0991	0.1570
	Boeing 737-500 Series	CFM3B4	3.8867	0.0915	0.0042	0.0042											3.8909	0.0956	3.9865
	Boeing 737-700 Series	1CM007	4.2478	0.5608	23.7146	3.9256	11.0208	0.3780	1.3478	0.0124							40.3309	4.8768	45.2077
	Boeing 737-800 Series	4CM039	2.8379	0.1001	39.1673	5.8351	18.4876	0.5685	3.9158	0.2865							64.4086	6.7901	71.1988
	Boeing 757-200 Series	1RR012	0.0177	0.0052	0.2737	0.3142				0.0094		0.0010					0.3007	0.3205	0.6212
	Boeing 757-200 Series	4PW073	0.0103	0.0052	2.4609	0.3871	0.1001	0.0021	0.0083			0.0010		0.0010			2.5816	0.3943	2.9759
	Boeing 757-300 Series	XPW204	0.0010		0.3388	0.0217	0.0837	0.0010									0.4234	0.0227	0.4462
	Boeing DC-9-30 Series	1PW008	0.0048		0.0048	0.0048											0.0096	0.0048	0.0145
	Boeing MD-81	4PW068	0.0021	0.0010	0.0021	0.0010											0.0041	0.0021	0.0062
	Boeing MD-82	1PW018	0.0020	0.0061	0.0061	0.0010	0.0224	0.0010									0.0306	0.0082	0.0387
	Boeing MD-83	4PW068	0.0361	0.0093	1.9015	0.0227	0.0340	0.0041									1.9716	0.0361	2.0077
	Boeing MD-90	1IA004	0.0041		2.0829	0.0247	0.4743	0.0082									2.5613	0.0330	2.5943
Regional Jet	Bombardier Challenger 600	5GE084	5.2191	0.2991													5.2191	0.2991	5.5182
	Bombardier Challenger 601	1GE034	0.0131														0.0131		0.0131
	Bombardier CRJ-900	6GE092	0.0413		1.5409												1.5822		1.5822

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
	Bombardier Global 5000 Business	4BR009	0.4592	0.0353	0.3179	0.0132	0.1457	0.0132	0.0397		0.0088	0.0265	0.0751		0.0044		1.0508	0.0883	1.1391
	Bombardier Global Express	4BR002	0.3815	0.0327	0.2125	0.0054	0.1580	0.0054	0.0218	0.0054	0.0109	0.0272	0.0545		0.0272		0.8665	0.0763	0.9428
	Embraer ERJ145	6AL008	1.1556	0.1138	0.5105	0.0310	0.0207		0.0310	0.0034							1.7179	0.1483	1.8662
	Embraer ERJ145-LR	6AL007	0.6236	0.0092	0.0123		0.0031										0.6389	0.0092	0.6481
	Embraer ERJ170	6GE095	0.0233		0.0470	0.0004	0.0087	0.0008									0.0791	0.0012	0.0803
	Embraer ERJ175	6GE095			0.0041												0.0041		0.0041
	Embraer ERJ190	6GE094	12.1511	0.4556	15.0211	2.4476	4.1249	0.4638									31.2971	3.3670	34.6641
General Aviation	Bombardier Learjet 25	CJ6106	0.0218	0.0044													0.0218	0.0044	0.0262
Jet	Bombardier Learjet 35	1AS002	9.2293	1.1775													9.2293	1.1775	10.4068
	Bombardier Learjet 60	PW 305 SER	0.4076	0.0377													0.4076	0.0377	0.4454
	Cessna 500 Citation I	1PW035	2.2078	0.1120													2.2078	0.1120	2.3198
	Cessna 550 Citation II	1PW036	2.8793	0.1532													2.8793	0.1532	3.0325
	Cessna 560 Citation V	1PW037	1.1025	0.0670													1.1025	0.0670	1.1696
	Cessna 560 Citation V	PW530	0.2866	0.0147													0.2866	0.0147	0.3013
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	2.0460	0.0887													2.0460	0.0887	2.1347
	Cessna 650 Citation III	1AS001	0.4111	0.0231													0.4111	0.0231	0.4342
	Cessna 680 Citation Sovereign	7PW080	1.0133	0.0721													1.0133	0.0721	1.0854
	Cessna 750 Citation X	6AL021	3.1001	0.1969													3.1001	0.1969	3.2970
	Cessna 750 Citation X	AE 3007C2	0.0356														0.0356		0.0356
	CESSNA CITATION 510	PW615F	0.5689	0.0337													0.5689	0.0337	0.6026
	Dassault Falcon 20-C	1AS002	0.1249	0.0416													0.1249	0.0416	0.1665
	Dassault Falcon 900	TFE 731 SER	0.1707	0.0145													0.1707	0.0145	0.1853
	Eclipse 500 / PW610F	PW610F-A	0.0674	0.0037	0.1085	0.0075	0.0037	0.0037									0.1796	0.0150	0.1946
	Gulfstream G400	6RR042	2.8731	0.2963													2.8731	0.2963	3.1694
	Gulfstream G500	3BR001	1.5285	0.1951													1.5285	0.1951	1.7236
	Gulfstream II-B	1RR016	0.2395	0.0225													0.2395	0.0225	0.2620
	Israel IAI-1121 Commodore	CJ6102	1.0064	0.0771													1.0064	0.0771	1.0835
	Mitsubishi MU-300 Diamond	1PW037	1.0471	0.0602													1.0471	0.0602	1.1073
General Aviation	Britten-Norman BN-2 Islander	250B17	0.0430														0.0430		0.0430
Turboprop	Cessna 208 Caravan	PT6A14	11.2067	0.2770													11.2067	0.2770	11.4837
	Cessna 441 Conquest II	TPE8	0.3804	0.0164													0.3804	0.0164	0.3967
	DeHavilland DHC-6-300 Twin Otter	PT6A42	5.3585	0.2367													5.3585	0.2367	5.5952
	DeHavilland DHC-8-100	PW120A	0.0168														0.0168		0.0168
	DeHavilland DHC-8-300	PW123B	2.2154	0.0319													2.2154	0.0319	2.2473
	EADS Socata TBM-700	PT6A-66 SER	0.1385														0.1385		0.1385
	Embraer EMB120 Brasilia	PW118	0.0112														0.0112		0.0112
	Piper PA-42 Cheyenne Series	PT6A41	2.6281	0.0433													2.6281	0.0433	2.6714
	Raytheon Beech 1900-D	PT67D	0.0753		0.0108												0.0861		0.0861
	Saab 340-B	CT7-5	22.9016	0.7098	0.0446												22.9461	0.7098	23.6559
	Shorts 330	PT6A45	0.0356														0.0356		0.0356
General Aviation	1985 1-ENG COMP	TIO540	1.2733	0.0497													1.2733	0.0497	1.3230
Piston	Boeing DC-3	R1820	0.0243														0.0243		0.0243
	Cessna 150 Series	O200	0.8027	0.0582													0.8027	0.0582	0.8608
	Cessna 172 Skyhawk	IO360	0.8135	0.1109													0.8135	0.1109	0.9244
	Cessna 182	IO360	0.3228	0.0159													0.3228	0.0159	0.3387

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Stage 7		Total Day	Total Night	Total All
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
	Cessna 182 Float	TSIO36	0.0037														0.0037		0.0037
	Cessna 206	TIO540	0.8094	0.0123	0.0082		0.0123										0.8298	0.0123	0.8421
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	0.0037														0.0037		0.0037
	Piper PA-24 Comanche	TIO540	0.9184	0.0304													0.9184	0.0304	0.9488
	Piper PA-28 Cherokee Series	IO320	0.0094														0.0094		0.0094
	Piper PA-30 Twin Comanche	IO320	0.1418	0.0079													0.1418	0.0079	0.1497
	Raytheon Beech 55 Baron	TIO540	5.5703	0.3469													5.5703	0.3469	5.9172
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	0.0131														0.0131		0.0131
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	0.0131														0.0131		0.0131
	Agusta A119	250B17	0.0337	0.0037													0.0337	0.0037	0.0374
	Bell 206 JetRanger	250B17	0.0168														0.0168		0.0168
	Bell 214B-1	T53L13	0.0075														0.0075		0.0075
	Bell 407 / Rolls-Royce 250-C47B	250B17	0.0150														0.0150		0.0150
	Bell 430	250B17	0.0192	0.0032													0.0192	0.0032	0.0225
	Eurocopter EC-130	TPE3	0.0253	0.0028													0.0253	0.0028	0.0281
	Hughes 500D	250B17	0.0037														0.0037		0.0037
	Robinson R22B	IO320	0.0094														0.0094		0.0094
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	0.0150														0.0150		0.0150
	Sikorsky S-76 Spirit	T70070	0.0206														0.0206		0.0206
All Aircraft			130.5914	8.1996	207.6438	36.0457	79.2574	7.4460	26.8530	1.1395	0.0309	1.5027	0.7309	0.0128	0.2244		445.3318	54.3463	499.6781

SOURCE: Environmental Science Associates, 2018.

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**TABLE B-2.5
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2018 CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
Widebody	7478	2GE045	100.00%	0.00%	100.00%	0.00%
	Airbus A300B4-600 Series	CF680C	60.00%	40.00%	86.67%	13.33%
	Airbus A300F4-600 Series	1PW056	60.05%	39.95%	91.27%	8.73%
	Airbus A310-300 Series	1PW027	100.00%	0.00%	100.00%	0.00%
	Airbus A330-300 Series	1PW059	16.52%	83.48%	96.90%	3.10%
	B787-8R	2GE048	95.74%	4.26%	21.05%	78.95%
	Boeing 747-400 Series	1GE024	100.00%	0.00%	100.00%	0.00%
	Boeing 767-200 Series	2GE039	100.00%	0.00%	100.00%	0.00%
	Boeing 767-200 Series	5PW074	77.14%	22.86%	88.10%	11.90%
	Boeing 767-300 Series	1RR011	90.89%	9.11%	91.58%	8.42%
	Boeing 767-400	3GE058	90.91%	9.09%	100.00%	0.00%
	Boeing 777-200 Series	1PW041	66.67%	33.33%	66.67%	33.33%
	Boeing 777-300 ER	7GE099	100.00%	0.00%	50.00%	50.00%
	Boeing 777-300 Series	6GE091	100.00%	0.00%	93.75%	6.25%
	Boeing DC-10-10 Series	3GE076	35.90%	64.10%	95.06%	4.94%
	Boeing DC-10-30 Series	1GE009	65.63%	34.38%	85.94%	14.06%
	Boeing MD-11	1PW056	88.24%	11.76%	79.59%	20.41%
	Boeing MD-11	CF680C	94.17%	5.83%	79.81%	20.19%
Narrowbody	Airbus A319-100 Series	7CM050	83.15%	16.85%	91.51%	8.49%
	Airbus A320-200 Series	2CM018	79.64%	20.36%	90.64%	9.36%
	Airbus A320-200 Series	3IA007	77.54%	22.46%	85.79%	14.21%
	Airbus A321-200 Series	1IA005	77.57%	22.43%	84.19%	15.81%
	Boeing 717-200 Series	4BR002	83.10%	16.90%	99.01%	0.99%
	Boeing 727-100 Series	1PW010	62.50%	37.50%	62.50%	37.50%
	Boeing 727-200 Series	1PW015	100.00%	0.00%	100.00%	0.00%
	Boeing 737-100 Series	1PW006	66.67%	33.33%	33.33%	66.67%
	Boeing 737-300 Series	1CM004	83.80%	16.20%	84.60%	15.40%
	Boeing 737-400 Series	1CM005	68.42%	31.58%	36.84%	63.16%
	Boeing 737-500 Series	CFM3B4	99.59%	0.41%	97.60%	2.40%
	Boeing 737-700 Series	1CM007	90.12%	9.88%	89.21%	10.79%
	Boeing 737-800 Series	4CM039	81.83%	18.17%	90.46%	9.54%
	Boeing 757-200 Series	1RR012	59.90%	40.10%	48.41%	51.59%
	Boeing 757-200 Series	4PW073	79.55%	20.45%	86.75%	13.25%
	Boeing 757-300 Series	XPW204	73.15%	26.85%	94.91%	5.09%
	Boeing DC-9-30 Series	1PW008	75.00%	25.00%	66.67%	33.33%
	Boeing MD-81	4PW068	50.00%	50.00%	66.67%	33.33%
	Boeing MD-82	1PW018	81.08%	18.92%	78.95%	21.05%
	Boeing MD-83	4PW068	88.05%	11.95%	98.20%	1.80%
Boeing MD-90	1IA004	95.37%	4.63%	98.73%	1.27%	
Regional Jet	Bombardier Challenger 600	5GE084	90.18%	9.82%	94.58%	5.42%
	Bombardier Challenger 601	1GE034	100.00%	0.00%	100.00%	0.00%
	Bombardier CRJ-900	6GE092	100.00%	0.00%	100.00%	0.00%
	Bombardier Global 5000 Business	4BR009	84.50%	15.50%	92.25%	7.75%
	Bombardier Global Express	4BR002	91.91%	8.09%	91.91%	8.09%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
	Embraer ERJ145	6AL008	91.01%	8.99%	92.05%	7.95%
	Embraer ERJ145-LR	6AL007	83.60%	16.40%	98.58%	1.42%
	Embraer ERJ170	6GE095	97.96%	2.04%	98.45%	1.55%
	Embraer ERJ175	6GE095	100.00%	0.00%	100.00%	0.00%
	Embraer ERJ190	6GE094	90.95%	9.05%	90.29%	9.71%
General Aviation Jet	Bombardier Learjet 25	CJ6106	50.00%	50.00%	83.33%	16.67%
	Bombardier Learjet 35	1AS002	78.46%	21.54%	88.68%	11.32%
	Bombardier Learjet 60	PW 305 SER	92.50%	7.50%	91.53%	8.47%
	Cessna 500 Citation I	1PW035	94.17%	5.83%	95.17%	4.83%
	Cessna 550 Citation II	1PW036	91.36%	8.64%	94.95%	5.05%
	Cessna 560 Citation V	1PW037	91.00%	9.00%	94.27%	5.73%
	Cessna 560 Citation V	PW530	91.14%	8.86%	95.12%	4.88%
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	94.00%	6.00%	95.85%	4.15%
	Cessna 650 Citation III	1AS001	94.96%	5.04%	94.69%	5.31%
	Cessna 680 Citation Sovereign	7PW080	93.20%	6.80%	93.36%	6.64%
	Cessna 750 Citation X	6AL021	89.66%	10.34%	94.03%	5.97%
	Cessna 750 Citation X	AE 3007C2	100.00%	0.00%	100.00%	0.00%
	CESSNA CITATION 510	PW615F	95.03%	4.97%	94.41%	5.59%
	Dassault Falcon 20-C	1AS002	85.96%	14.04%	75.00%	25.00%
	Dassault Falcon 900	TFE 731 SER	89.58%	10.42%	92.16%	7.84%
	Eclipse 500 / PW610F	PW610F-A	98.08%	1.92%	92.31%	7.69%
	Gulfstream G400	6RR042	85.95%	14.05%	90.65%	9.35%
	Gulfstream G500	3BR001	80.49%	19.51%	88.68%	11.32%
	Gulfstream II-B	1RR016	91.43%	8.57%	91.43%	8.57%
	Israel IAI-1121 Comodore	CJ6102	88.38%	11.62%	92.88%	7.12%
	Mitsubishi MU-300 Diamond	1PW037	94.10%	5.90%	94.56%	5.44%
	T-38 Talon	J855HA	100.00%	0.00%	100.00%	0.00%
General Aviation Turboprop	Britten-Norman BN-2 Islander	250B17	100.00%	0.00%	100.00%	0.00%
	Cessna 208 Caravan	PT6A14	98.94%	1.06%	97.59%	2.41%
	Cessna 441 Conquest II	TPE8	96.52%	3.48%	95.88%	4.12%
	DeHavilland DHC-6-300 Twin Otter	PT6A42	94.76%	5.24%	95.77%	4.23%
	DeHavilland DHC-8-100	PW120A	100.00%	0.00%	100.00%	0.00%
	DeHavilland DHC-8-300	PW123B	99.44%	0.56%	98.58%	1.42%
	EADS Socata TBM-700	PT6A-66 SER	94.44%	5.56%	100.00%	0.00%
	Embraer EMB120 Brasilia	PW118	75.00%	25.00%	100.00%	0.00%
	Piper PA-42 Cheyenne Series	PT6A41	98.88%	1.12%	98.38%	1.62%
	Raytheon Beech 1900-D	PT67D	100.00%	0.00%	100.00%	0.00%
	Saab 340-B	CT7-5	97.87%	2.13%	97.00%	3.00%
	Shorts 330	PT6A45	100.00%	0.00%	100.00%	0.00%
General Aviation Piston	1985 1-ENG COMP	TIO540	96.12%	3.88%	96.24%	3.76%
	Boeing DC-3	R1820	100.00%	0.00%	100.00%	0.00%
	Cessna 150 Series	O200	93.28%	6.72%	93.24%	6.76%
	Cessna 172 Skyhawk	IO360	95.58%	4.42%	88.00%	12.00%
	Cessna 182	IO360	93.75%	6.25%	95.29%	4.71%
	Cessna 182 Float	TSIO36	100.00%	0.00%	100.00%	0.00%
	Cessna 206	TIO540	97.95%	2.05%	98.54%	1.46%
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	100.00%	0.00%	100.00%	0.00%
	Piper PA-24 Comanche	TIO540	95.33%	4.67%	96.80%	3.20%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
	Piper PA-28 Cherokee Series	IO320	100.00%	0.00%	100.00%	0.00%
	Piper PA-30 Twin Comanche	IO320	90.48%	9.52%	94.74%	5.26%
	Raytheon Beech 55 Baron	TIO540	97.98%	2.02%	94.14%	5.86%
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	100.00%	0.00%	100.00%	0.00%
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	100.00%	0.00%	100.00%	0.00%
	Agusta A119	250B17	100.00%	0.00%	90.00%	10.00%
	Bell 206 JetRanger	250B17	100.00%	0.00%	100.00%	0.00%
	Bell 214B-1	T53L13	100.00%	0.00%	100.00%	0.00%
	Bell 407 / Rolls-Royce 250-C47B	250B17	100.00%	0.00%	100.00%	0.00%
	Bell 430	250B17	80.00%	20.00%	85.71%	14.29%
	Eurocopter EC-130	TPE3	60.00%	40.00%	90.00%	10.00%
	Hughes 500D	250B17	100.00%	0.00%	100.00%	0.00%
	Robinson R22B	IO320	100.00%	0.00%	100.00%	0.00%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	100.00%	0.00%	100.00%	0.00%
	Sikorsky S-76 Spirit	T70070	100.00%	0.00%	100.00%	0.00%
All Aircraft			84.45%	15.55%	89.51%	10.49%

SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.6
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2023 CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
Widebody	7478	2GE045	100.00%	0.00%	100.00%	0.00%
	Airbus A300B4-600 Series	CF680C	60.00%	40.00%	86.67%	13.33%
	Airbus A300F4-600 Series	1PW056	60.05%	39.95%	91.27%	8.73%
	Airbus A310-300 Series	1PW027	100.00%	0.00%	100.00%	0.00%
	Airbus A330-300 Series	1PW059	16.52%	83.48%	96.90%	3.10%
	B787-8R	2GE048	95.74%	4.26%	21.05%	78.95%
	Boeing 747-400 Series	1GE024	100.00%	0.00%	100.00%	0.00%
	Boeing 767-200 Series	2GE039	100.00%	0.00%	100.00%	0.00%
	Boeing 767-200 Series	5PW074	77.14%	22.86%	88.10%	11.90%
	Boeing 767-300 Series	1RR011	90.89%	9.11%	91.58%	8.42%
	Boeing 767-400	3GE058	90.91%	9.09%	100.00%	0.00%
	Boeing 777-200 Series	1PW041	66.67%	33.33%	66.67%	33.33%
	Boeing 777-300 ER	7GE099	100.00%	0.00%	50.00%	50.00%
	Boeing 777-300 Series	6GE091	100.00%	0.00%	93.75%	6.25%
	Boeing DC-10-10 Series	3GE076	35.90%	64.10%	95.06%	4.94%
	Boeing DC-10-30 Series	1GE009	65.63%	34.38%	85.94%	14.06%
	Boeing MD-11	1PW056	88.24%	11.76%	79.59%	20.41%
	Boeing MD-11	CF680C	94.17%	5.83%	79.81%	20.19%
Narrowbody	Airbus A319-100 Series	7CM050	83.15%	16.85%	91.51%	8.49%
	Airbus A320-200 Series	2CM018	79.64%	20.36%	90.64%	9.36%
	Airbus A320-200 Series	3IA007	77.54%	22.46%	85.79%	14.21%
	Airbus A321-200 Series	1IA005	77.57%	22.43%	84.19%	15.81%
	Boeing 717-200 Series	4BR002	83.10%	16.90%	99.01%	0.99%
	Boeing 727-100 Series	1PW010	62.50%	37.50%	62.50%	37.50%
	Boeing 727-200 Series	1PW015	100.00%	0.00%	100.00%	0.00%
	Boeing 737-100 Series	1PW006	66.67%	33.33%	33.33%	66.67%
	Boeing 737-300 Series	1CM004	83.80%	16.20%	84.60%	15.40%
	Boeing 737-400 Series	1CM005	68.42%	31.58%	36.84%	63.16%
	Boeing 737-500 Series	CFM3B4	99.59%	0.41%	97.60%	2.40%
	Boeing 737-700 Series	1CM007	90.12%	9.88%	89.21%	10.79%
	Boeing 737-800 Series	4CM039	81.83%	18.17%	90.46%	9.54%
	Boeing 757-200 Series	1RR012	59.90%	40.10%	48.41%	51.59%
	Boeing 757-200 Series	4PW073	79.55%	20.45%	86.75%	13.25%
	Boeing 757-300 Series	XPW204	73.15%	26.85%	94.91%	5.09%
	Boeing DC-9-30 Series	1PW008	75.00%	25.00%	66.67%	33.33%
	Boeing MD-81	4PW068	50.00%	50.00%	66.67%	33.33%
	Boeing MD-82	1PW018	81.08%	18.92%	78.95%	21.05%
	Boeing MD-83	4PW068	88.05%	11.95%	98.20%	1.80%
Boeing MD-90	1IA004	95.37%	4.63%	98.73%	1.27%	
Regional Jet	Bombardier Challenger 600	5GE084	90.18%	9.82%	94.58%	5.42%
	Bombardier Challenger 601	1GE034	100.00%	0.00%	100.00%	0.00%
	Bombardier CRJ-900	6GE092	100.00%	0.00%	100.00%	0.00%
	Bombardier Global 5000 Business	4BR009	84.50%	15.50%	92.25%	7.75%
	Bombardier Global Express	4BR002	91.91%	8.09%	91.91%	8.09%
	Embraer ERJ145	6AL008	91.01%	8.99%	92.05%	7.95%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
	Embraer ERJ145-LR	6AL007	83.60%	16.40%	98.58%	1.42%
	Embraer ERJ170	6GE095	97.96%	2.04%	98.45%	1.55%
	Embraer ERJ175	6GE095	100.00%	0.00%	100.00%	0.00%
	Embraer ERJ190	6GE094	90.95%	9.05%	90.29%	9.71%
General Aviation Jet	Bombardier Learjet 25	CJ6106	50.00%	50.00%	83.33%	16.67%
	Bombardier Learjet 35	1AS002	78.46%	21.54%	88.68%	11.32%
	Bombardier Learjet 60	PW 305 SER	92.50%	7.50%	91.53%	8.47%
	Cessna 500 Citation I	1PW035	94.17%	5.83%	95.17%	4.83%
	Cessna 550 Citation II	1PW036	91.36%	8.64%	94.95%	5.05%
	Cessna 560 Citation V	1PW037	91.00%	9.00%	94.27%	5.73%
	Cessna 560 Citation V	PW530	91.14%	8.86%	95.12%	4.88%
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	94.00%	6.00%	95.85%	4.15%
	Cessna 650 Citation III	1AS001	94.96%	5.04%	94.69%	5.31%
	Cessna 680 Citation Sovereign	7PW080	93.20%	6.80%	93.36%	6.64%
	Cessna 750 Citation X	6AL021	89.66%	10.34%	94.03%	5.97%
	Cessna 750 Citation X	AE 3007C2	100.00%	0.00%	100.00%	0.00%
	CESSNA CITATION 510	PW615F	95.03%	4.97%	94.41%	5.59%
	Dassault Falcon 20-C	1AS002	85.96%	14.04%	75.00%	25.00%
	Dassault Falcon 900	TFE 731 SER	89.58%	10.42%	92.16%	7.84%
	Eclipse 500 / PW610F	PW610F-A	98.08%	1.92%	92.31%	7.69%
	Gulfstream G400	6RR042	85.95%	14.05%	90.65%	9.35%
	Gulfstream G500	3BR001	80.49%	19.51%	88.68%	11.32%
	Gulfstream II-B	1RR016	91.43%	8.57%	91.43%	8.57%
	Israel IAI-1121 Comodore	CJ6102	88.38%	11.62%	92.88%	7.12%
	Mitsubishi MU-300 Diamond	1PW037	94.10%	5.90%	94.56%	5.44%
General Aviation Turboprop	Britten-Norman BN-2 Islander	250B17	100.00%	0.00%	100.00%	0.00%
	Cessna 208 Caravan	PT6A14	98.94%	1.06%	97.59%	2.41%
	Cessna 441 Conquest II	TPE8	96.52%	3.48%	95.88%	4.12%
	DeHavilland DHC-6-300 Twin Otter	PT6A42	94.76%	5.24%	95.77%	4.23%
	DeHavilland DHC-8-100	PW120A	100.00%	0.00%	100.00%	0.00%
	DeHavilland DHC-8-300	PW123B	99.44%	0.56%	98.58%	1.42%
	EADS Socata TBM-700	PT6A-66 SER	94.44%	5.56%	100.00%	0.00%
	Embraer EMB120 Brasilia	PW118	75.00%	25.00%	100.00%	0.00%
	Piper PA-42 Cheyenne Series	PT6A41	98.88%	1.12%	98.38%	1.62%
	Raytheon Beech 1900-D	PT67D	100.00%	0.00%	100.00%	0.00%
	Saab 340-B	CT7-5	97.87%	2.13%	97.00%	3.00%
	Shorts 330	PT6A45	100.00%	0.00%	100.00%	0.00%
General Aviation Piston	1985 1-ENG COMP	TIO540	96.12%	3.88%	96.24%	3.76%
	Boeing DC-3	R1820	100.00%	0.00%	100.00%	0.00%
	Cessna 150 Series	O200	93.28%	6.72%	93.24%	6.76%
	Cessna 172 Skyhawk	IO360	95.58%	4.42%	88.00%	12.00%
	Cessna 182	IO360	93.75%	6.25%	95.29%	4.71%
	Cessna 182 Float	TSIO36	100.00%	0.00%	100.00%	0.00%
	Cessna 206	TIO540	97.95%	2.05%	98.54%	1.46%
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	100.00%	0.00%	100.00%	0.00%
	Piper PA-24 Comanche	TIO540	95.33%	4.67%	96.80%	3.20%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Arrivals		Departures	
			Day	Night	Day	Night
	Piper PA-28 Cherokee Series	IO320	100.00%	0.00%	100.00%	0.00%
	Piper PA-30 Twin Comanche	IO320	90.48%	9.52%	94.74%	5.26%
	Raytheon Beech 55 Baron	TIO540	97.98%	2.02%	94.14%	5.86%
	Aerospatiale SA-350D Astar (AS-350)	TPE3	100.00%	0.00%	100.00%	0.00%
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	100.00%	0.00%	100.00%	0.00%
	Agusta A119	250B17	100.00%	0.00%	90.00%	10.00%
	Bell 206 JetRanger	250B17	100.00%	0.00%	100.00%	0.00%
	Bell 214B-1	T53L13	100.00%	0.00%	100.00%	0.00%
	Bell 407 / Rolls-Royce 250-C47B	250B17	100.00%	0.00%	100.00%	0.00%
	Bell 430	250B17	80.00%	20.00%	85.71%	14.29%
	Eurocopter EC-130	TPE3	60.00%	40.00%	90.00%	10.00%
	Hughes 500D	250B17	100.00%	0.00%	100.00%	0.00%
	Robinson R22B	IO320	100.00%	0.00%	100.00%	0.00%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	100.00%	0.00%	100.00%	0.00%
	Sikorsky S-76 Spirit	T70070	100.00%	0.00%	100.00%	0.00%
All Aircraft			84.11%	15.89%	89.12%	10.88%

SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.7
DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2018 CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
Widebody	7478	2GE045	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A300B4-600 Series	CF680C	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A300F4-600 Series	1PW056	6.88%	93.12%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A310-300 Series	1PW027	3.70%	3.70%	92.59%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A330-300 Series	1PW059	1.77%	0.00%	2.65%	0.00%	3.54%	92.04%	0.00%	100.00%
	B787-8R	2GE048	0.00%	0.25%	0.00%	0.00%	78.95%	20.80%	0.00%	100.00%
	Boeing 747-400 Series	1GE024	33.33%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-200 Series	2GE039	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-200 Series	5PW074	2.38%	14.29%	83.33%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-300 Series	1RR011	1.99%	11.30%	86.16%	0.55%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-400	3GE058	10.00%	80.00%	10.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 777-200 Series	1PW041	0.00%	33.33%	0.00%	0.00%	33.33%	33.33%	0.00%	100.00%
	Boeing 777-300 ER	7GE099	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 777-300 Series	6GE091	0.00%	0.00%	0.00%	0.00%	0.00%	6.25%	93.75%	100.00%
	Boeing DC-10-10 Series	3GE076	1.45%	98.55%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing DC-10-30 Series	1GE009	3.13%	95.31%	0.00%	1.56%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-11	1PW056	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-11	CF680C	0.96%	99.04%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Narrowbody	Airbus A319-100 Series	7CM050	8.01%	71.79%	13.97%	6.23%	0.01%	0.00%	0.00%	100.00%
	Airbus A320-200 Series	2CM018	2.32%	57.56%	16.81%	23.31%	0.00%	0.00%	0.00%	100.00%
	Airbus A320-200 Series	3IA007	7.38%	55.94%	25.52%	11.15%	0.01%	0.00%	0.00%	100.00%
	Airbus A321-200 Series	1IA005	6.23%	80.25%	11.84%	1.69%	0.00%	0.00%	0.00%	100.00%
	Boeing 717-200 Series	4BR002	0.55%	99.45%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 727-100 Series	1PW010	37.50%	18.75%	12.50%	31.25%	0.00%	0.00%	0.00%	100.00%
	Boeing 727-200 Series	1PW015	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-100 Series	1PW006	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-300 Series	1CM004	11.72%	84.72%	3.53%	0.04%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-400 Series	1CM005	34.21%	47.37%	18.42%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-500 Series	CFM3B4	99.79%	0.21%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Boeing 737-700 Series	1CM007	10.64%	61.14%	25.21%	3.01%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-800 Series	4CM039	4.13%	63.21%	26.76%	5.90%	0.00%	0.00%	0.00%	100.00%
	Boeing 757-200 Series	1RR012	3.69%	94.64%	0.00%	1.51%	0.17%	0.00%	0.00%	100.00%
	Boeing 757-200 Series	4PW073	0.52%	95.70%	3.43%	0.28%	0.00%	0.03%	0.03%	100.00%
	Boeing 757-300 Series	XPW204	0.23%	80.79%	18.98%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing DC-9-30 Series	1PW008	33.33%	66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-81	4PW068	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-82	1PW018	21.05%	18.42%	60.53%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-83	4PW068	2.26%	95.84%	1.90%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-90	11A004	0.16%	81.24%	18.60%	0.00%	0.00%	0.00%	0.00%	100.00%
Regional Jet	Bombardier Challenger 600	5GE084	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Challenger 601	1GE034	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier CRJ-900	6GE092	2.61%	97.39%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Global 5000 Business	4BR009	43.41%	29.07%	13.95%	3.49%	3.10%	6.59%	0.39%	100.00%
	Bombardier Global Express	4BR002	43.93%	23.12%	17.34%	2.89%	4.05%	5.78%	2.89%	100.00%
	Embraer ERJ145	6AL008	68.02%	29.02%	1.11%	1.85%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ145-LR	6AL007	97.63%	1.90%	0.47%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ170	6GE095	29.02%	59.07%	11.92%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ175	6GE095	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ190	6GE094	36.37%	50.39%	13.24%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	Bombardier Learjet 25	CJ6106	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Jet	Bombardier Learjet 35	1AS002	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Learjet 60	PW 305 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 500 Citation I	1PW035	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 550 Citation II	1PW036	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation V	1PW037	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation V	PW530	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 650 Citation III	1AS001	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 680 Citation Sovereign	7PW080	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 750 Citation X	6AL021	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Cessna 750 Citation X	AE 3007C2	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	CESSNA CITATION 510	PW615F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Dassault Falcon 20-C	1AS002	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Dassault Falcon 900	TFE 731 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Eclipse 500 / PW610F	PW610F-A	36.54%	59.62%	3.85%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream G400	6RR042	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream G500	3BR001	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream II-B	1RR016	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Israel IAI-1121 Commodore	CJ6102	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Mitsubishi MU-300 Diamond	1PW037	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	T-38 Talon	J855HA	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	Britten-Norman BN-2 Islander	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Turboprop	Cessna 208 Caravan	PT6A14	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 441 Conquest II	TPE8	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-6-300 Twin Otter	PT6A42	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-8-100	PW120A	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-8-300	PW123B	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	EADS Socata TBM-700	PT6A-66 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer EMB120 Brasilia	PW118	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-42 Cheyenne Series	PT6A41	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Raytheon Beech 1900-D	PT67D	87.50%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Saab 340-B	CT7-5	99.81%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Shorts 330	PT6A45	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	1985 1-ENG COMP	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piston	Boeing DC-3	R1820	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 150 Series	O200	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 172 Skyhawk	IO360	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 182	IO360	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 182 Float	TSIO36	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 206	TIO540	97.57%	0.97%	1.46%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Piper PA-24 Comanche	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-28 Cherokee Series	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-30 Twin Comanche	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Raytheon Beech 55 Baron	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Agusta A119	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 206 JetRanger	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 214B-1	T53L13	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 407 / Rolls-Royce 250-C47B	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 430	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Eurocopter EC-130	TPE3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Hughes 500D	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Robinson R22B	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Sikorsky S-76 Spirit	T70070	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
All Aircraft			28.72%	50.38%	15.53%	4.87%	0.25%	0.23%	0.02%	100.00%

SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.8
DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2023 CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
Widebody	7478	2GE045	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A300B4-600 Series	CF680C	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A300F4-600 Series	1PW056	6.88%	93.12%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A310-300 Series	1PW027	3.70%	3.70%	92.59%	0.00%	0.00%	0.00%	0.00%	100.00%
	Airbus A330-300 Series	1PW059	1.77%	0.00%	2.65%	0.00%	3.54%	92.04%	0.00%	100.00%
	B787-8R	2GE048	0.00%	0.25%	0.00%	0.00%	78.95%	20.80%	0.00%	100.00%
	Boeing 747-400 Series	1GE024	33.33%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-200 Series	2GE039	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-200 Series	5PW074	2.38%	14.29%	83.33%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-300 Series	1RR011	1.99%	11.30%	86.16%	0.55%	0.00%	0.00%	0.00%	100.00%
	Boeing 767-400	3GE058	10.00%	80.00%	10.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 777-200 Series	1PW041	0.00%	33.33%	0.00%	0.00%	33.33%	33.33%	0.00%	100.00%
	Boeing 777-300 ER	7GE099	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 777-300 Series	6GE091	0.00%	0.00%	0.00%	0.00%	0.00%	6.25%	93.75%	100.00%
	Boeing DC-10-10 Series	3GE076	1.45%	98.55%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing DC-10-30 Series	1GE009	3.13%	95.31%	0.00%	1.56%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-11	1PW056	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-11	CF680C	0.96%	99.04%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Narrowbody	Airbus A319-100 Series	7CM050	8.01%	71.79%	13.97%	6.23%	0.01%	0.00%	0.00%	100.00%
	Airbus A320-200 Series	2CM018	2.32%	57.56%	16.81%	23.31%	0.00%	0.00%	0.00%	100.00%
	Airbus A320-200 Series	3IA007	7.38%	55.94%	25.52%	11.15%	0.01%	0.00%	0.00%	100.00%
	Airbus A321-200 Series	1IA005	6.23%	80.25%	11.84%	1.69%	0.00%	0.00%	0.00%	100.00%
	Boeing 717-200 Series	4BR002	0.55%	99.45%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 727-100 Series	1PW010	37.50%	18.75%	12.50%	31.25%	0.00%	0.00%	0.00%	100.00%
	Boeing 727-200 Series	1PW015	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-100 Series	1PW006	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-300 Series	1CM004	11.72%	84.72%	3.53%	0.04%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-400 Series	1CM005	34.21%	47.37%	18.42%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-500 Series	CFM3B4	99.79%	0.21%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Boeing 737-700 Series	1CM007	10.64%	61.14%	25.21%	3.01%	0.00%	0.00%	0.00%	100.00%
	Boeing 737-800 Series	4CM039	4.13%	63.21%	26.76%	5.90%	0.00%	0.00%	0.00%	100.00%
	Boeing 757-200 Series	1RR012	3.69%	94.64%	0.00%	1.51%	0.17%	0.00%	0.00%	100.00%
	Boeing 757-200 Series	4PW073	0.52%	95.70%	3.43%	0.28%	0.00%	0.03%	0.03%	100.00%
	Boeing 757-300 Series	XPW204	0.23%	80.79%	18.98%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing DC-9-30 Series	1PW008	33.33%	66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-81	4PW068	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-82	1PW018	21.05%	18.42%	60.53%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-83	4PW068	2.26%	95.84%	1.90%	0.00%	0.00%	0.00%	0.00%	100.00%
	Boeing MD-90	11A004	0.16%	81.24%	18.60%	0.00%	0.00%	0.00%	0.00%	100.00%
Regional Jet	Bombardier Challenger 600	5GE084	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Challenger 601	1GE034	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier CRJ-900	6GE092	2.61%	97.39%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Global 5000 Business	4BR009	43.41%	29.07%	13.95%	3.49%	3.10%	6.59%	0.39%	100.00%
	Bombardier Global Express	4BR002	43.93%	23.12%	17.34%	2.89%	4.05%	5.78%	2.89%	100.00%
	Embraer ERJ145	6AL008	68.02%	29.02%	1.11%	1.85%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ145-LR	6AL007	97.63%	1.90%	0.47%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ170	6GE095	29.02%	59.07%	11.92%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ175	6GE095	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer ERJ190	6GE094	36.37%	50.39%	13.24%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	Bombardier Learjet 25	CJ6106	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Jet	Bombardier Learjet 35	1AS002	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bombardier Learjet 60	PW 305 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 500 Citation I	1PW035	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 550 Citation II	1PW036	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation V	1PW037	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation V	PW530	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 560 Citation XLS	BIZMEDIUMJET_F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 650 Citation III	1AS001	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 680 Citation Sovereign	7PW080	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 750 Citation X	6AL021	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Cessna 750 Citation X	AE 3007C2	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	CESSNA CITATION 510	PW615F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Dassault Falcon 20-C	1AS002	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Dassault Falcon 900	TFE 731 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Eclipse 500 / PW610F	PW610F-A	36.54%	59.62%	3.85%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream G400	6RR042	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream G500	3BR001	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Gulfstream II-B	1RR016	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Israel IAI-1121 Commodore	CJ6102	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Mitsubishi MU-300 Diamond	1PW037	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	Britten-Norman BN-2 Islander	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Turboprop	Cessna 208 Caravan	PT6A14	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 441 Conquest II	TPE8	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-6-300 Twin Otter	PT6A42	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-8-100	PW120A	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-8-300	PW123B	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	EADS Socata TBM-700	PT6A-66 SER	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Embraer EMB120 Brasilia	PW118	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-42 Cheyenne Series	PT6A41	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Raytheon Beech 1900-D	PT67D	87.50%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Saab 340-B	CT7-5	99.81%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Shorts 330	PT6A45	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
General Aviation	1985 1-ENG COMP	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Piston	Boeing DC-3	R1820	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 150 Series	O200	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 172 Skyhawk	IO360	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 182	IO360	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 182 Float	TSIO36	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Cessna 206	TIO540	97.57%	0.97%	1.46%	0.00%	0.00%	0.00%	0.00%	100.00%
	DeHavilland DHC-2 Mk III Beaver Float	PW610F	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-24 Comanche	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	Stage Length							Total
			1	2	3	4	5	6	7	
	Piper PA-28 Cherokee Series	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Piper PA-30 Twin Comanche	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Raytheon Beech 55 Baron	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Aerospatiale SA-355F Twin Star (AS-355)	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Agusta A119	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 206 JetRanger	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 214B-1	T53L13	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 407 / Rolls-Royce 250-C47B	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Bell 430	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Eurocopter EC-130	TPE3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Hughes 500D	250B17	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Robinson R22B	IO320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
	Sikorsky S-76 Spirit	T70070	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
All Aircraft			27.78%	48.77%	17.35%	5.60%	0.31%	0.15%	0.04%	100.00%

SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.9
ARRIVAL RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2018 CONDITIONS**

Aircraft Category	Runway 10L	Runway 28R	Runway 10R	Runway 28L
Daytime Arrivals				
Widebody	74.59%	19.93%	4.21%	1.26%
Narrowbody	55.80%	13.60%	24.89%	5.71%
Regional Jet	50.63%	8.45%	29.97%	10.95%
GA Jet	50.49%	11.35%	29.64%	8.52%
GA Turboprops	40.60%	10.17%	40.33%	8.91%
GA Piston	21.84%	5.33%	59.56%	13.27%
All Aircraft	52.60%	12.46%	28.06%	6.89%
Nighttime Arrivals				
Widebody	81.18%	15.48%	3.07%	0.28%
Narrowbody	73.99%	17.79%	7.04%	1.17%
Regional Jet	69.85%	15.26%	12.99%	1.90%
GA Jet	71.55%	18.23%	8.33%	1.89%
GA Turboprops	71.35%	18.80%	8.86%	0.99%
GA Piston	58.97%	15.37%	21.79%	3.87%
All Aircraft	73.77%	17.62%	7.37%	1.23%

NOTE: Does not include helicopter operations. Values may not add to 100 percent due to rounding.
SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.10
DEPARTURE RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2018 CONDITIONS**

Aircraft Category	Runway 10L	Runway 28R	Runway 10R	Runway 28L
Daytime Departures				
Widebody	77.86%	20.60%	1.45%	0.09%
Narrowbody	50.48%	12.77%	30.25%	6.50%
Regional Jet	26.47%	6.96%	54.84%	11.73%
GA Jet	57.26%	13.61%	23.31%	5.82%
GA Turboprops	53.09%	13.80%	28.14%	4.98%
GA Piston	34.11%	8.50%	47.23%	10.16%
All Aircraft	49.25%	12.47%	31.57%	6.72%
Nighttime Departures				
Widebody	78.18%	19.81%	2.01%	0.00%
Narrowbody	66.38%	16.83%	13.72%	3.06%
Regional Jet	31.46%	9.74%	47.73%	11.07%
GA Jet	66.66%	16.44%	14.48%	2.42%
GA Turboprops	61.70%	20.41%	15.39%	2.51%
GA Piston	68.85%	10.44%	18.14%	2.57%
All Aircraft	64.33%	16.46%	15.78%	3.44%

NOTE: Does not include helicopter operations. Values may not add to 100 percent due to rounding.
SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.11
ARRIVAL RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2023 CONDITIONS**

Aircraft Category	Runway 10L	Runway 28R	Runway 10R	Runway 28L
Daytime Arrivals				
Widebody	72.79%	20.59%	4.85%	1.77%
Narrowbody	54.65%	12.95%	26.26%	6.14%
Regional Jet	50.45%	8.51%	30.03%	11.01%
GA Jet	50.50%	11.31%	29.68%	8.51%
GA Turboprops	40.07%	10.04%	40.81%	9.07%
GA Piston	21.84%	5.33%	59.56%	13.27%
All Aircraft	51.82%	12.01%	28.95%	7.22%
Nighttime Arrivals				
Widebody	80.59%	16.81%	2.43%	0.17%
Narrowbody	73.85%	17.65%	7.29%	1.21%
Regional Jet	70.12%	15.35%	12.69%	1.84%
GA Jet	71.53%	18.26%	8.31%	1.90%
GA Turboprops	71.10%	18.81%	9.09%	1.01%
GA Piston	58.97%	15.37%	21.79%	3.87%
All Aircraft	73.53%	17.55%	7.65%	1.28%

NOTE: Does not include helicopter operations. Values may not add to 100 percent due to rounding.
SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.12
DEPARTURE RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2023 CONDITIONS**

Aircraft Category	Runway 10L	Runway 28R	Runway 10R	Runway 28L
Daytime Departures				
Widebody	76.56%	21.55%	1.74%	0.16%
Narrowbody	47.89%	11.97%	33.06%	7.09%
Regional Jet	25.46%	6.89%	55.81%	11.84%
GA Jet	57.28%	13.61%	23.31%	5.80%
GA Turboprops	52.36%	13.62%	28.84%	5.18%
GA Piston	34.11%	8.50%	47.23%	10.16%
All Aircraft	46.93%	11.82%	34.02%	7.23%
Nighttime Departures				
Widebody	76.80%	21.56%	1.64%	0.00%
Narrowbody	64.70%	16.31%	15.57%	3.42%
Regional Jet	31.06%	9.71%	48.02%	11.20%
GA Jet	66.65%	16.41%	14.51%	2.43%
GA Turboprops	60.93%	20.16%	16.24%	2.67%
GA Piston	68.85%	10.44%	18.14%	2.57%
All Aircraft	62.73%	16.05%	17.44%	3.78%

NOTE: Does not include helicopter operations. Values may not add to 100 percent due to rounding.
SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.13
ARRIVAL FLIGHT TRACK USE – 2018 CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10L			Runway 10R		
10LA1	2.10%	0.86%	10RA1	0.24%	0.25%
10LA2	0.23%	0.99%	10RA2	1.90%	0.12%
10LA3	0.15%	1.19%	10RA3	0.10%	0.18%
10LA4	0.15%	0.20%	10RA4	0.37%	0.68%
10LA5	1.62%	1.15%	10RA5	0.57%	1.31%
10LA6	0.42%	1.09%	10RA6	0.09%	0.25%
10LA7	0.08%	0.23%	10RA7	0.36%	0.31%
10LA8	0.19%	0.21%	10RA8	0.06%	0.00%
10LA9	1.78%	6.68%	10RA9	0.02%	0.00%
10LA10	48.08%	29.08%	10RA10	18.01%	24.28%
10LA11	0.02%	0.06%	10RA11	0.81%	3.58%
10LA12	0.03%	0.10%	10RA12	0.26%	0.63%
10LA13	0.06%	0.70%	10RA13	0.10%	0.06%
10LA14	0.03%	0.26%	10RA14	0.08%	0.82%
10LA15	0.66%	6.04%	10RA15	0.04%	1.82%
10LA16	10.92%	3.45%	10RA16	0.21%	0.63%
10LA17	0.21%	0.16%	10RA17	0.12%	0.25%
10LA18	0.16%	0.98%	10RA18	0.11%	0.00%
10LA19	0.03%	0.00%	10RA19	16.65%	3.27%
10LA20	32.03%	41.71%	10RA20	15.49%	11.57%
10LA21	0.16%	0.44%	10RA21	0.45%	0.12%
10LA22	0.38%	3.09%	10RA22	0.38%	0.13%
10LA23	0.35%	0.37%	10RA23	0.12%	0.00%
10LA24	0.16%	0.97%	10RA24	0.31%	0.06%
10LA25	0.01%	0.01%	10RA25	0.43%	2.06%
			10RA26	0.51%	1.19%
			10RA27	0.19%	1.63%
			10RA28	1.06%	1.01%
			10RA29	40.97%	43.79%
Total	100.00%	100.00%	Total	100.00%	100.00%
Runway 28L			Runway 28R		
28LA1	2.28%	0.00%	28RA1	0.63%	1.97%
28LA2	1.45%	0.35%	28RA2	0.26%	0.84%
28LA3	45.48%	22.10%	28RA3	0.24%	0.42%
28LA4	0.72%	2.25%	28RA4	5.56%	1.37%
28LA5	0.09%	0.00%	28RA5	43.08%	40.26%
28LA6	0.50%	0.38%	28RA6	0.52%	0.24%
28LA7	0.09%	0.00%	28RA7	3.34%	9.28%
28LA8	1.75%	2.26%	28RA8	1.93%	2.55%
28LA9	17.21%	17.29%	28RA9	0.35%	2.89%
28LA10	8.65%	14.30%	28RA10	44.08%	40.18%
28LA11	2.57%	0.38%			
28LA12	3.84%	10.62%			
28LA13	1.19%	2.63%			
28LA14	0.83%	0.38%			
28LA15	13.33%	27.08%			
Total	100.00%	100.00%	Total	100.00%	100.00%

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Helicopter Runway 10L			Helicopter Runway 10R		
H10LA0	37.82%	0.00%	H10RA1	11.56%	0.00%
H10LA1	26.17%	0.00%	H10RA2	11.56%	0.00%
H10LA2	36.01%	100.00%	H10RA3	21.00%	100.00%
			H10RA4	21.19%	0.00%
			H10RA5	34.68%	0.00%
Total	100.00%	100.00%	Total	100.00%	100.00%
Helicopter Runway 28L			Helicopter Runway 28R		
H28LA0	44.43%		H28RA1	27.59%	
H28LA1	5.89%		H28RA2	27.59%	
H28LA2	14.13%		H28RA3	44.83%	
H28LA4	8.57%				
H28LA5	14.13%				
H28LA6	6.42%				
H28LA7	6.42%				
Total	100.00%	0%	Total	100.00%	0%
Helipad HP					
HPA1	55.04%	100.00%			
HPA2	19.07%	0.00%			
HPA3	8.69%	0.00%			
HPA4	6.34%	0.00%			
HPA5	10.86%	0.00%			
Total	100.00%	100.00%			
SOURCE: Environmental Science Associates, 2018.					

**TABLE B-2.14
DEPARTURE FLIGHT TRACK USE – 2018 CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10L			Runway 10R		
10LD1	4.98%	2.41%	10RD1	23.87%	25.98%
10LD2	17.75%	22.61%	10RD2	1.66%	0.53%
10LD3	1.31%	0.63%	10RD3	1.43%	0.97%
10LD4	0.03%	0.39%	10RD4	0.51%	0.22%
10LD5	3.71%	0.32%	10RD5	0.23%	1.45%
10LD6	0.12%	0.06%	10RD6	7.02%	7.51%
10LD7	0.03%	0.02%	10RD7	0.84%	1.04%
10LD8	0.44%	5.64%	10RD8	0.62%	4.80%
10LD9	18.00%	11.03%	10RD9	16.81%	17.46%
10LD10	0.12%	0.14%	10RD10	1.41%	1.43%
10LD11	2.08%	1.33%	10RD11	0.05%	0.00%
10LD12	1.17%	13.64%	10RD12	0.15%	0.44%
10LD13	35.65%	18.43%	10RD13	3.52%	0.94%
10LD14	3.76%	2.02%	10RD14	31.92%	27.71%
10LD15	0.02%	0.08%	10RD15	0.09%	0.13%
10LD16	0.02%	0.02%	10RD16	0.11%	0.13%
10LD17	0.01%	0.00%	10RD17	0.25%	0.00%
10LD18	4.56%	9.11%	10RD18	0.28%	0.88%
10LD19	0.17%	2.08%	10RD19	0.10%	2.15%
10LD20	0.19%	0.76%	10RD20	0.17%	0.05%
10LD21	1.87%	0.55%	10RD21	0.99%	0.62%
10LD22	0.38%	0.81%	10RD22	0.67%	0.32%
10LD23	0.04%	0.18%	10RD23	5.68%	5.01%
10LD24	0.26%	4.92%	10RD24	1.62%	0.23%
10LD25	0.84%	1.63%			
10LD26	0.20%	0.77%			
10LD27	0.14%	0.06%			
10LD28	0.11%	0.08%			
10LD29	0.17%	0.11%			
10LD30	0.69%	0.05%			
10LD31	1.18%	0.11%			
Total	100.00%	100.00%	Total	100.00%	100.00%
Runway 28L			Runway 28R		
28LD1	0.63%	0.80%	28RD1	34.10%	18.41%
28LD2	1.08%	1.41%	28RD2	0.53%	1.09%
28LD3	21.45%	19.30%	28RD3	1.70%	10.00%
28LD4	1.45%	0.83%	28RD4	0.16%	0.76%
28LD5	0.12%	0.00%	28RD5	0.15%	0.13%
28LD6	9.26%	5.83%	28RD6	23.30%	15.60%
28LD7	0.16%	0.00%	28RD7	0.70%	11.94%
28LD8	33.10%	37.22%	28RD8	10.12%	6.14%
28LD9	0.04%	0.00%	28RD9	0.77%	1.43%
28LD10	0.59%	3.42%	28RD10	3.87%	3.29%
28LD11	11.38%	13.07%	28RD11	17.08%	15.47%
28LD12	2.31%	2.61%	28RD12	1.21%	0.08%
28LD13	0.90%	0.60%	28RD13	1.15%	0.04%
28LD14	1.08%	1.61%	28RD14	0.44%	0.00%

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
28LD15	0.84%	0.00%	28RD15	0.33%	0.84%
28LD16	6.13%	1.21%	28RD16	0.77%	5.70%
28LD17	0.47%	5.23%	28RD17	0.35%	2.44%
28LD18	1.97%	0.42%	28RD18	0.20%	1.81%
28LD19	3.62%	0.20%	28RD19	2.21%	0.17%
28LD20	0.42%	0.20%	28RD20	0.29%	0.08%
28LD21	0.48%	0.40%	28RD21	0.15%	0.09%
28LD22	0.47%	4.02%	28RD22	0.16%	0.77%
28LD23	0.67%	0.60%	28RD23	0.26%	3.71%
28LD24	0.64%	0.40%			
28LD25	0.74%	0.60%			
Total	100.00%	100.00%	Total	100.00%	100.00%
Helicopter Runway 10L			Helicopter Runway 10R		
H10LD1	28.27%		H10RD0	14.79%	0.00%
H10LD2	31.95%		H10RD1	3.20%	0.00%
H10LD3	26.22%		H10RD2	29.89%	0.00%
H10LD4	13.56%		H10RD3	6.51%	0.00%
			H10RD4	0.00%	100.00%
			H10RD5	6.62%	0.00%
			H10RD6	16.23%	0.00%
			H10RD7	9.61%	0.00%
			H10RD8	13.16%	0.00%
Total	100.00%	0%	Total	100.00%	100.00%
Helicopter Runway 28L			Helicopter Runway 28R		
H28LD0	70.65%		H28RD1	36.84%	
H28LD4	16.30%		H28RD2	63.16%	
H28LD5	13.04%				
Total	100.00%	0%	Total	100.00%	0%
Helipad HP					
HPD1	24.61%	0.00%			
HPD2	12.44%	0.00%			
HPD3	0.00%	53.33%			
HPD5	18.13%	0.00%			
HPD6	20.73%	46.67%			
HPD7	24.09%	0.00%			
Total	100.00%	100.00%			

SOURCE: Environmental Science Associates, 2018.

**TABLE B-2.15
ARRIVAL FLIGHT TRACK USE – 2023 CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10L			Runway 10R		
10LA1	2.06%	0.88%	10RA1	0.22%	0.24%
10LA2	0.23%	0.76%	10RA2	1.82%	0.12%
10LA3	0.16%	1.15%	10RA3	0.10%	0.18%
10LA4	0.15%	0.22%	10RA4	0.36%	0.60%
10LA5	1.62%	1.13%	10RA5	0.57%	1.09%
10LA6	0.42%	1.02%	10RA6	0.10%	0.30%
10LA7	0.09%	0.27%	10RA7	0.35%	0.33%
10LA8	0.19%	0.20%	10RA8	0.06%	0.00%
10LA9	1.76%	6.96%	10RA9	0.02%	0.00%
10LA10	48.31%	30.18%	10RA10	18.70%	26.63%
10LA11	0.02%	0.07%	10RA11	0.80%	3.72%
10LA12	0.03%	0.10%	10RA12	0.27%	0.62%
10LA13	0.06%	0.75%	10RA13	0.10%	0.06%
10LA14	0.02%	0.26%	10RA14	0.08%	0.84%
10LA15	0.65%	5.93%	10RA15	0.05%	2.05%
10LA16	12.27%	3.38%	10RA16	0.21%	0.64%
10LA17	0.20%	0.15%	10RA17	0.11%	0.24%
10LA18	0.13%	0.98%	10RA18	0.10%	0.00%
10LA19	0.03%	0.00%	10RA19	17.97%	3.28%
10LA20	30.60%	40.49%	10RA20	14.72%	11.16%
10LA21	0.15%	0.46%	10RA21	0.44%	0.11%
10LA22	0.35%	3.25%	10RA22	0.37%	0.12%
10LA23	0.34%	0.35%	10RA23	0.11%	0.00%
10LA24	0.15%	1.03%	10RA24	0.29%	0.06%
10LA25	0.01%	0.01%	10RA25	0.41%	1.89%
			10RA26	0.50%	1.30%
			10RA27	0.20%	1.81%
			10RA28	1.10%	1.10%
			10RA29	39.89%	41.53%
Total	100.00%	100.00%	Total	100.00%	100.00%
Runway 28L			Runway 28R		
28LA1	2.11%	0.00%	28RA1	0.65%	1.91%
28LA2	1.42%	0.34%	28RA2	0.26%	0.72%
28LA3	45.98%	22.29%	28RA3	0.23%	0.37%
28LA4	0.69%	2.06%	28RA4	5.49%	1.36%
28LA5	0.09%	0.00%	28RA5	43.55%	41.66%
28LA6	0.48%	0.45%	28RA6	0.51%	0.23%
28LA7	0.09%	0.00%	28RA7	3.67%	9.57%
28LA8	1.73%	2.68%	28RA8	1.88%	2.72%
28LA9	17.56%	19.13%	28RA9	0.36%	3.16%
28LA10	9.04%	14.71%	28RA10	43.40%	38.29%
28LA11	2.56%	0.45%			
28LA12	3.64%	10.36%			
28LA13	1.15%	2.78%			
28LA14	0.71%	0.45%			
28LA15	12.76%	24.30%			
Total	100.00%	100.00%	Total	100.00%	100.00%

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Helicopter Runway 10L			Helicopter Runway 10R		
H10LA0	37.82%	0.00%	H10RA1	11.56%	0.00%
H10LA1	26.17%	0.00%	H10RA2	11.56%	0.00%
H10LA2	36.01%	100.00%	H10RA3	21.00%	100.00%
			H10RA4	21.19%	0.00%
			H10RA5	34.68%	0.00%
Total	100.00%	100.00%	Total	100.00%	100.00%
Helicopter Runway 28L			Helicopter Runway 28R		
H28LA0	44.43%		H28RA1	27.59%	
H28LA1	5.89%		H28RA2	27.59%	
H28LA2	14.13%		H28RA3	44.83%	
H28LA4	8.57%				
H28LA5	14.13%				
H28LA6	6.42%				
H28LA7	6.42%				
Total	100.00%	0%	Total	100.00%	0%
Helipad HP					
HPA1	55.04%	100.00%			
HPA2	19.07%	0.00%			
HPA3	8.69%	0.00%			
HPA4	6.34%	0.00%			
HPA5	10.86%	0.00%			
Total	100.00%	100.00%			
SOURCE: Environmental Science Associates, 2018.					

**TABLE B-2.16
DEPARTURE FLIGHT TRACK USE – 2023 CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10L			Runway 10R		
10LD1	4.84%	2.48%	10RD1	25.22%	26.88%
10LD2	17.24%	24.56%	10RD2	1.52%	0.50%
10LD3	1.33%	0.62%	10RD3	1.38%	0.90%
10LD4	0.03%	0.36%	10RD4	0.51%	0.24%
10LD5	3.52%	0.33%	10RD5	0.22%	1.29%
10LD6	0.12%	0.07%	10RD6	6.54%	7.04%
10LD7	0.03%	0.03%	10RD7	0.76%	0.90%
10LD8	0.46%	4.83%	10RD8	0.60%	4.46%
10LD9	18.70%	9.75%	10RD9	16.31%	17.36%
10LD10	0.13%	0.14%	10RD10	1.32%	1.18%
10LD11	2.05%	1.18%	10RD11	0.05%	0.00%
10LD12	1.10%	12.58%	10RD12	0.15%	0.43%
10LD13	35.49%	17.38%	10RD13	3.18%	0.87%
10LD14	3.70%	1.90%	10RD14	32.57%	28.45%
10LD15	0.02%	0.06%	10RD15	0.09%	0.14%
10LD16	0.02%	0.03%	10RD16	0.10%	0.14%
10LD17	0.01%	0.00%	10RD17	0.25%	0.00%
10LD18	4.93%	10.38%	10RD18	0.31%	0.88%
10LD19	0.18%	2.42%	10RD19	0.10%	2.24%
10LD20	0.21%	0.88%	10RD20	0.16%	0.05%
10LD21	1.79%	0.59%	10RD21	0.88%	0.54%
10LD22	0.38%	0.75%	10RD22	0.61%	0.28%
10LD23	0.04%	0.19%	10RD23	5.74%	5.04%
10LD24	0.28%	5.44%	10RD24	1.43%	0.19%
10LD25	0.93%	1.82%			
10LD26	0.22%	0.86%			
10LD27	0.13%	0.05%			
10LD28	0.11%	0.08%			
10LD29	0.16%	0.11%			
10LD30	0.66%	0.05%			
10LD31	1.19%	0.11%			
Total	100.00%	100.00%	Total	100.00%	100.00%
Runway 28L			Runway 28R		
28LD1	0.56%	0.72%	28RD1	33.22%	16.98%
28LD2	1.09%	1.53%	28RD2	0.54%	1.02%
28LD3	21.46%	19.53%	28RD3	1.74%	9.34%
28LD4	1.33%	0.73%	28RD4	0.18%	0.81%
28LD5	0.13%	0.00%	28RD5	0.14%	0.16%
28LD6	9.88%	5.32%	28RD6	23.24%	16.72%
28LD7	0.14%	0.00%	28RD7	0.76%	13.05%
28LD8	34.59%	38.17%	28RD8	10.03%	5.46%
28LD9	0.03%	0.00%	28RD9	0.83%	1.36%
28LD10	0.60%	3.44%	28RD10	4.19%	2.91%
28LD11	10.14%	12.40%	28RD11	17.63%	14.06%
28LD12	2.27%	2.84%	28RD12	1.23%	0.10%
28LD13	0.83%	0.56%	28RD13	1.09%	0.04%
28LD14	1.05%	1.43%	28RD14	0.42%	0.00%

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
28LD15	0.76%	0.00%	28RD15	0.35%	0.98%
28LD16	6.30%	1.31%	28RD16	0.85%	6.64%
28LD17	0.49%	5.24%	28RD17	0.37%	2.80%
28LD18	1.79%	0.37%	28RD18	0.21%	2.12%
28LD19	3.27%	0.17%	28RD19	2.10%	0.19%
28LD20	0.37%	0.17%	28RD20	0.29%	0.08%
28LD21	0.49%	0.44%	28RD21	0.16%	0.09%
28LD22	0.46%	3.99%	28RD22	0.18%	0.87%
28LD23	0.67%	0.62%	28RD23	0.25%	4.21%
28LD24	0.58%	0.37%			
28LD25	0.72%	0.64%			
Total	100.00%	100.00%	Total	100.00%	100.00%
Helicopter Runway 10L			Helicopter Runway 10R		
H10LD1	28.27%		H10RD0	14.79%	0.00%
H10LD2	31.95%		H10RD1	3.20%	0.00%
H10LD3	26.22%		H10RD2	29.89%	0.00%
H10LD4	13.56%		H10RD3	6.51%	0.00%
			H10RD4	0.00%	100.00%
			H10RD5	6.62%	0.00%
			H10RD6	16.23%	0.00%
			H10RD7	9.61%	0.00%
			H10RD8	13.16%	0.00%
Total	100.00%	0%	Total	100.00%	100.00%
Helicopter Runway 28L			Helicopter Runway 28R		
H28LD0	70.65%		H28RD1	36.84%	
H28LD4	16.30%		H28RD2	63.16%	
H28LD5	13.04%				
Total	100.00%	0%	Total	100.00%	0%
Helipad HP					
HPD1	24.61%	0.00%			
HPD2	12.44%	0.00%			
HPD3	0.00%	53.33%			
HPD5	18.13%	0.00%			
HPD6	20.73%	46.67%			
HPD7	24.09%	0.00%			
Total	100.00%	100.00%			

SOURCE: Environmental Science Associates, 2018.