

# APPENDIX B

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## Aircraft Activity Forecast

This appendix includes the forecast for the Tampa International Airport Noise Exposure Map Update and the aircraft operational data used in the Aviation Environmental Design Tool (AEDT) to model noise exposure in 2021 and 2026. This appendix includes the following information.

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## **Appendix B-1**

**Federal Aviation Administration (FAA)**

**2020 Terminal Area Forecast**

# APO TERMINAL AREA FORECAST SUMMARY REPORT

## Forecast Issued May 2021

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Fiscal Year	AIRCRAFT OPERATIONS													
	Enplanements			Itinerant Operations					Local Operations			Total Ops	Total Tracon Ops	Based Aircraft
	Air Carrier	Commuter	Total	Air Carrier	Air Taxi & Commuter	GA	Military	Total	Civil	Military	Total			
2015	8,829,657	158,977	8,988,634	148,064	19,512	21,591	448	189,615	106	0	106	189,721	449,312	59
2016	9,055,207	142,175	9,197,382	148,335	18,349	22,029	467	189,180	122	0	122	189,302	456,195	62
2017	9,190,153	163,742	9,353,895	150,140	18,417	23,098	856	192,511	56	0	56	192,567	475,547	61
2018	10,096,253	151,897	10,248,150	162,387	18,701	22,536	490	204,114	40	0	40	204,154	495,218	61
2019	10,647,909	139,394	10,787,303	172,130	17,994	23,378	543	214,045	107	24	131	214,176	521,633	68
2020*	6,393,331	74,724	6,468,055	130,042	15,325	20,564	636	166,567	23	0	23	166,590	440,939	68
2021*	6,380,638	88,514	6,469,152	128,101	16,960	22,158	636	167,855	23	0	23	167,878	456,466	68
2022*	7,624,722	110,335	7,735,057	142,542	18,455	23,666	636	185,299	23	0	23	185,322	484,285	68
2023*	9,195,390	133,364	9,328,754	161,211	20,282	23,701	636	205,830	23	0	23	205,853	515,391	68
2024*	10,678,390	155,433	10,833,823	177,381	21,735	23,737	636	223,489	23	0	23	223,512	537,932	68
2025*	11,650,542	170,069	11,820,611	190,139	22,656	23,772	636	237,203	23	0	23	237,226	555,421	68
2026*	12,256,302	179,128	12,435,430	198,437	23,263	23,808	636	246,144	23	0	23	246,167	567,132	68
2027*	12,630,096	184,730	12,814,826	203,627	23,698	23,844	636	251,805	23	0	23	251,828	574,917	68
2028*	12,943,623	189,375	13,132,998	207,626	24,061	23,880	636	256,203	23	0	23	256,226	581,234	68
2029*	13,262,896	194,105	13,457,001	212,465	24,472	23,916	636	261,489	23	0	23	261,512	588,372	68
2030*	13,580,469	198,809	13,779,278	217,274	24,883	23,951	636	266,744	23	0	23	266,767	595,462	68

**Appendix B-2**  
**Operational Data**

**TABLE B-2.1**  
**2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Day	Night	Total
<b>Widebody</b>	Airbus A300F4-600 Series	1PW056	NONE	2.40	1.32	3.72
	Airbus A340-200 Series	7CM049	NONE	0.42		0.42
	Boeing 767-200 Series	1GE026	NONE	0.01		0.01
	Boeing 767-300 ER	1PW043	NONE	6.41	1.95	8.36
	Boeing 767-300 Series	1RR011	NONE	0.55	0.04	0.60
	Boeing 767-400	3GE058	NONE	0.18		0.18
	Boeing 777-200 Series	1PW055	NONE	0.48	0.01	0.49
	Boeing DC-10-40 Series	JT9D7A	NONE	0.38	0.18	0.57
	Boeing MD-11	1PW056	NONE	0.72	0.37	1.09
<b>Narrowbody</b>	Airbus A319-100 Series	7CM048	NONE	16.48	1.66	18.14
	Airbus A320-200 Series	3IA007	NONE	72.02	6.49	78.51
	Airbus A320-NEO	01P20CM128	NONE	6.73	1.19	7.92
	Airbus A321-200 Series	1IA005	NONE	37.04	5.06	42.10
	Boeing 717-200 Series	4BR002	NONE	0.67	0.08	0.75
	Boeing 737-300 Series	1CM007	NONE	1.06		1.06
	Boeing 737-400 Series	1CM007	NONE	0.02		0.02
	Boeing 737-700 Series	3CM030	NONE	56.45	6.24	62.70
	Boeing 737-8	01P20CM136	NONE	3.63	0.56	4.19
	Boeing 737-800 Series	3CM034	NONE	78.68	10.16	88.83
	Boeing 757-200 Series	4PW073	NONE	9.61	2.30	11.90
	Boeing 757-200 Series	5RR039	NONE	2.38	2.30	4.69
	Boeing 757-300 Series	XPW204	NONE	2.59	0.52	3.11
<b>Regional Jet</b>	Bombardier Challenger 600	01P05GE189	NONE	5.04	0.28	5.32
	Bombardier Challenger 601	1GE034	NONE	0.96	0.05	1.01
	Bombardier CRJ-900-ER	01P08GE190	NONE	1.08		1.08
	Embraer ERJ145	6AL008	NONE	0.16	0.06	0.22
	Embraer ERJ170	01P08GE197	NONE	0.49		0.49
	Embraer ERJ175	01P08GE198	NONE	8.15	0.37	8.52
	Embraer ERJ190	XCF10E	NONE	5.50	0.01	5.51
<b>Business Jet</b>	Bombardier Global 5000	01P04BR013	NONE	0.29	0.03	0.32
	Bombardier Global Express	4BR002	NONE	0.52	0.04	0.56
	Bombardier Learjet 35	1AS001	NONE	11.22	1.31	12.53
	Cessna 500 Citation I	1PW035	NONE	6.67	0.53	7.20
	Cessna 525 CitationJet	10PW099	NONE	0.31	0.00	0.32
	Cessna 550 Citation II	1PW036	NONE	7.84	0.42	8.26

**TABLE B-2.1**  
**2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Day	Night	Total
	Cessna 560 Citation Encore	PW530	NONE	1.47	0.10	1.57
	Cessna 560 Citation Excel	PW530	NONE	4.10	0.13	4.23
	Cessna 560 Citation V	1PW037	NONE	0.99	0.27	1.27
	Cessna 650 Citation III	1AS001	NONE	0.48	0.04	0.52
	Cessna 680 Citation Sovereign	7PW078	NONE	3.77	0.15	3.92
	Cessna 750 Citation X	6AL022	NONE	4.29	0.20	4.49
	CESSNA CITATION 510	PW610F	NONE	1.85	0.40	2.25
	Dassault Falcon 20-C	1AS002	NONE	0.00	0.00	0.01
	Dassault Falcon 900-EX	1AS002	NONE	1.89	0.07	1.96
	Eclipse 500 / PW610F	PW610F-A	NONE	0.19	0.01	0.19
	Gulfstream G650	01P11BR016	NONE	0.28	0.01	0.29
	Gulfstream IV-SP	1RR019	NONE	2.25	0.14	2.39
	Gulfstream V-SP	3BR001	NONE	2.75	0.32	3.06
	Israel IAI-1121 Commodore	CJ6102	NONE	0.20	0.02	0.22
<b>Turboprop</b>	Cessna 180 (FAS)	TIO540	NONE	3.13	0.11	3.24
	Cessna 208 Caravan	PT6A14	NONE	3.58	0.21	3.79
	Cessna 441 Conquest II	TPE8	NONE	0.32	0.02	0.34
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	10.70	0.58	11.28
	DeHavilland DHC-8-300	PW123E	NONE	9.52		9.52
	Hawker HS748-2A	RDA7	NONE	0.02	0.01	0.02
	Lockheed C-130 Hercules	T56-1	NONE	0.01		0.01
	Piper PA-42 Cheyenne Series	PT6A41	NONE	0.04	0.00	0.05
	Raytheon Beech 1900-C	PT67B	NONE	0.01		0.01
Saab 340-A	CT7-5	NONE	0.01		0.01	
<b>Piston</b>	1985 1-ENG COMP	TIO540	NONE	4.02	0.11	4.13
	Cessna 150 Series	O200	NONE	0.64	0.04	0.67
	Cessna 172 Skyhawk	IO360	NONE	0.55	0.26	0.81
	Cessna 182	IO360	NONE	0.30	0.03	0.33
	Cessna 206	TIO540	IO-540-AC	0.09		0.09
	Piper PA-30 Twin Comanche	IO320	NONE	0.02		0.02
	Raytheon Beech Baron 58	TIO540	NONE	3.70	1.19	4.89
<b>Helicopter</b>	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.02	0.04	0.06
	Bell 206 JetRanger	250B17	NONE	0.38	0.03	0.41
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.54	0.29	0.83
	Bell 427	TPE1	NONE	1.42	0.48	1.90

**TABLE B-2.1  
2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Day	Night	Total
	Bell 429	TPE1	NONE	0.01		0.01
	Bell UH-1 Iroquois	T400	NONE	0.05		0.05
	Robinson R22 Mariner	IO320	NONE	0.03		0.03
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.26	0.03	0.28
	Sikorsky S-76 Spirit	T70070	NONE	0.13	0.00	0.13
<b>Total</b>				411.1	48.80	459.9

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.



**TABLE B-2.2**  
**2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod 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	Airbus A300F4-600 Series	1PW056	NONE	0.13	0.03	1.56	0.14											1.69	0.17	1.86
	Airbus A340-200 Series	7CM049	NONE													0.21		0.21	0.65	0.21
	Boeing 767-200 Series	1GE026	NONE			0.00												0.00	0.00	0.00
	Boeing 767-300 ER	1PW043	NONE	0.04	0.02	2.56	0.63	0.16		0.77								3.53	0.01	4.18
	Boeing 767-300 Series	1RR011	NONE	0.26				0.04			0.00							0.29	0.10	0.30
	Boeing 767-400	3GE058	NONE	0.09														0.09	0.19	0.09
	Boeing 777-200 Series	1PW055	NONE		0.00			0.00	0.00					0.24				0.24	0.17	0.24
	Boeing DC-10-40 Series	JT9D7A	NONE	0.00	0.00	0.18	0.09											0.19	0.65	0.28
	Boeing MD-11	1PW056	NONE			0.36	0.19											0.36	0.00	0.54
Narrowbody	Airbus A319-100 Series	7CM048	NONE	1.99	0.72	3.83	0.12	2.41		0.01	0.00							8.24	0.84	9.07
	Airbus A320-200 Series	3IA007	NONE	2.00	0.42	16.32	1.22	17.42	0.07	1.46	0.33							37.21	2.04	39.25
	Airbus A320-NEO	01P20CM128	NONE	0.76	0.25	1.82		0.59		0.22	0.32							3.39	0.57	3.96
	Airbus A321-200 Series	1IA005	NONE	2.08	0.05	10.60	1.17	5.49	0.13	1.39	0.04	0.10						19.66	1.39	21.05
	Boeing 717-200 Series	4BR002	NONE			0.29	0.08											0.29	0.08	0.37
	Boeing 737-300 Series	1CM007	NONE	0.01		0.52												0.53	2.38	0.53
	Boeing 737-400 Series	1CM007	NONE	0.01				0.01										0.01	0.25	0.01
	Boeing 737-700 Series	3CM030	NONE	5.16	0.45	16.91	1.32	5.17	0.36	1.72	0.26							28.97	2.86	31.35
	Boeing 737-8	01P20CM136	NONE	0.44	0.06	0.87	0.02	0.11		0.43	0.17							1.84	0.88	2.09
	Boeing 737-800 Series	3CM034	NONE	3.69	0.73	21.34	1.56	7.83	0.01	6.26	0.52	2.43	0.04					41.55	0.75	44.42
	Boeing 757-200 Series	4PW073	NONE	4.79	0.77	0.14	0.11			0.14								5.07	0.17	5.95
	Boeing 757-200 Series	5RR039	NONE	0.15	0.45	1.45	0.28		0.01		0.01							1.60	0.84	2.34
	Boeing 757-300 Series	XPW204	NONE	1.17	0.08	0.17	0.09	0.04										1.39	2.04	1.56
Regional Jet	Bombardier Challenger 600	01P05GE189	NONE	2.51	0.15													2.51	0.15	2.66
	Bombardier Challenger 601	1GE034	NONE	0.49	0.01													0.49	0.01	0.51
	Bombardier CRJ-900-ER	01P08GE190	NONE			0.54												0.54	0.03	0.54
	Embraer ERJ145	6AL008	NONE	0.04	0.00	0.05	0.02											0.08	0.13	0.11
	Embraer ERJ170	01P08GE197	NONE			0.20		0.05										0.25	0.15	0.25
	Embraer ERJ175	01P08GE198	NONE	1.33	0.13	2.72	0.00	0.08										4.13	0.01	4.26
	Embraer ERJ190	XCF10E	NONE	0.00		1.50		1.25		0.00								2.75	0.03	2.75
Business Jet	Bombardier Global 5000	01P04BR013	NONE	0.06	0.02	0.05	0.01			0.02				0.01				0.14	0.02	0.16
	Bombardier Global Express	4BR002	NONE	0.14	0.00	0.08		0.02		0.01	0.00			0.01	0.01		0.00	0.26	0.02	0.28
	Bombardier Learjet 35	1AS001	NONE	5.61	0.65													5.61	0.65	6.26
	Cessna 500 Citation I	1PW035	NONE	3.33	0.27													3.33	0.27	3.60
	Cessna 525 CitationJet	10PW099	NONE	0.15	0.00													0.15	0.00	0.16
	Cessna 550 Citation II	1PW036	NONE	3.92	0.21													3.92	0.21	4.13
	Cessna 560 Citation Encore	PW530	NONE	0.74	0.04													0.74	0.04	0.78

**TABLE B-2.2**  
**2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod 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 560 Citation Excel	PW530	NONE	2.05	0.06													2.05	0.06	2.11
	Cessna 560 Citation V	1PW037	NONE	0.49	0.14													0.49	0.14	0.63
	Cessna 650 Citation III	1AS001	NONE	0.23	0.03													0.23	0.03	0.26
	Cessna 680 Citation Sovereign	7PW078	NONE	1.88	0.08													1.88	0.08	1.96
	Cessna 750 Citation X	6AL022	NONE	2.17	0.07													2.17	0.07	2.25
	CESSNA CITATION 510	PW610F	NONE	0.92	0.20													0.92	0.20	1.13
	Dassault Falcon 20-C	1AS002	NONE	0.00														0.00	0.04	0.00
	Dassault Falcon 900-EX	1AS002	NONE	0.57	0.02	0.24	0.01	0.10			0.04							0.94	0.00	0.98
	Eclipse 500 / PW610F	PW610F-A	NONE	0.06		0.03	0.00	0.00										0.09	0.00	0.10
	Gulfstream G650	01P11BR016	NONE	0.08	0.00	0.05		0.00			0.00							0.14	0.05	0.14
	Gulfstream IV-SP	1RR019	NONE	1.14	0.05													1.14	0.13	1.19
	Gulfstream V-SP	3BR001	NONE	1.40	0.13													1.40	0.01	1.53
	Israel IAI-1121 Commodore	CJ6102	NONE	0.10	0.01													0.10	0.02	0.11
Turboprop	Cessna 180 (FAS)	TIO540	NONE	1.56	0.06													1.56	0.06	1.62
	Cessna 208 Caravan	PT6A14	NONE	1.78	0.12													1.78	0.12	1.89
	Cessna 441 Conquest II	TPE8	NONE	0.16	0.01													0.16	0.01	0.17
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	5.30	0.34													5.30	0.34	5.64
	DeHavilland DHC-8-300	PW123E	NONE	4.76														4.76	0.01	4.76
	Hawker HS748-2A	RDA7	NONE	0.00	0.01													0.00	0.00	0.01
	Lockheed C-130 Hercules	T56-1	NONE	0.00														0.00	0.06	0.00
	Piper PA-42 Cheyenne Series	PT6A41	NONE	0.02	0.00													0.02	0.12	0.02
	Raytheon Beech 1900-C	PT67B	NONE			0.00												0.00	0.01	0.00
Saab 340-A	CT7-5	NONE	0.00														0.00	0.34	0.00	
Piston	1985 1-ENG COMP	TIO540	NONE	2.00	0.06	0.01												2.01	0.06	2.06
	Cessna 150 Series	O200	NONE	0.31	0.03													0.31	0.03	0.34
	Cessna 172 Skyhawk	IO360	NONE	0.25	0.16													0.25	0.16	0.40
	Cessna 182	IO360	NONE	0.14	0.02													0.14	0.02	0.16
	Cessna 206	TIO540	IO-540-AC	0.04														0.04	0.58	0.04
	Piper PA-30 Twin Comanche	IO320	NONE	0.01														0.01	0.06	0.01
	Raytheon Beech Baron 58	TIO540	NONE	1.86	0.58													1.86	0.03	2.44
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.02	0.01													0.02	0.01	0.03
	Bell 206 JetRanger	250B17	NONE	0.19	0.02													0.19	0.02	0.21
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.20	0.22													0.20	0.22	0.41
	Bell 427	TPE1	NONE	0.76	0.19													0.76	0.19	0.95
	Bell 429	TPE1	NONE	0.00														0.00	0.01	0.00
Bell UH-1 Iroquois	T400	NONE	0.02														0.02	0.00	0.02	

**TABLE B-2.2**  
**2021 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod 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			
	Robinson R22 Mariner	IO320	NONE	0.02														0.02	0.01	0.02
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.14	0.01													0.14	0.02	0.14
	Sikorsky S-76 Spirit	T70070	NONE	0.06	0.00													0.06	0.22	0.07
<b>Total</b>				71.86	8.15	84.38	7.06	40.76	0.58	12.48	1.65	2.53	0.04	0.25	0.01	0.21	0.00	<b>212.46</b>	<b>17.51</b>	<b>229.97</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.3**  
**2026 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Day	Night	Total
<b>Widebody</b>	Airbus A300F4-600 Series	1PW056	NONE	3.66	2.01	5.67
	Airbus A350-900 series	01P18RR124	NONE	0.64		0.64
	Boeing 767-300 ER	1PW043	NONE	10.63	3.23	13.86
	Boeing MD-11	1PW056	NONE	2.37	1.21	3.58
<b>Narrowbody</b>	Airbus A319-100 Series	7CM048	NONE	26.69	2.69	29.38
	Airbus A320-200 Series	3IA007	NONE	73.75	6.65	80.39
	Airbus A320-NEO	01P20CM128	NONE	42.89	7.56	50.45
	Airbus A321-200 Series	1IA005	NONE	58.05	7.92	65.98
	Boeing 737-700 Series	3CM030	NONE	67.69	6.82	74.50
	Boeing 737-8	01P20CM136	NONE	73.96	11.98	85.94
	Boeing 737-800 Series	3CM034	NONE	89.59	11.87	101.46
	Boeing 757-200 Series	4PW073	NONE	4.48	1.07	5.54
	Boeing 757-200 Series	5RR039	NONE	3.67	3.54	7.21
Boeing 757-300 Series	XPW204	NONE	0.92	0.19	1.11	
<b>Regional Jet</b>	Bombardier Challenger 600	01P05GE189	NONE	6.28	0.35	6.63
	Bombardier Challenger 601	1GE034	NONE	1.20	0.07	1.26
	Bombardier CRJ-900-ER	01P08GE190	NONE	1.34		1.34
	Embraer ERJ170	01P08GE197	NONE	0.75		0.75
	Embraer ERJ175	01P08GE198	NONE	12.42	0.56	12.99
	Embraer ERJ190	XCF10E	NONE	0.02		0.02
<b>Business Jet</b>	Bombardier Global 5000	01P04BR013	NONE	0.37	0.04	0.40
	Bombardier Global Express	4BR002	NONE	0.65	0.05	0.70
	Bombardier Learjet 35	1AS001	NONE	13.97	1.63	15.60
	Cessna 500 Citation I	1PW035	NONE	8.31	0.66	8.97
	Cessna 525 CitationJet	10PW099	NONE	0.39	0.01	0.40
	Cessna 550 Citation II	1PW036	NONE	9.76	0.53	10.29
	Cessna 560 Citation Encore	PW530	NONE	1.83	0.12	1.95
	Cessna 560 Citation Excel	PW530	NONE	5.11	0.16	5.27
	Cessna 560 Citation V	1PW037	NONE	1.24	0.34	1.58
	Cessna 650 Citation III	1AS001	NONE	0.60	0.05	0.65
	Cessna 680 Citation Sovereign	7PW078	NONE	4.69	0.19	4.88
	Cessna 750 Citation X	6AL022	NONE	5.35	0.25	5.60
	CESSNA CITATION 510	PW610F	NONE	2.31	0.50	2.80
Dassault Falcon 20-C	1AS002	NONE	0.01	0.01	0.01	

**TABLE B-2.3**  
**2026 ANNUAL AVERAGE DAY AEDT AIRCRAFT ARRIVAL OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Day	Night	Total
	Dassault Falcon 900-EX	1AS002	NONE	2.36	0.09	2.44
	Eclipse 500 / PW610F	PW610F-A	NONE	0.23	0.01	0.24
	Gulfstream G650	01P11BR016	NONE	0.34	0.02	0.36
	Gulfstream IV-SP	1RR019	NONE	2.80	0.17	2.97
	Gulfstream V-SP	3BR001	NONE	3.42	0.40	3.81
	Israel IAI-1121 Commodore	CJ6102	NONE	0.25	0.03	0.27
<b>Turboprop</b>	Cessna 180 (FAS)	TIO540	NONE	3.90	0.14	4.04
	Cessna 208 Caravan	PT6A14	NONE	4.46	0.26	4.72
	Cessna 441 Conquest II	TPE8	NONE	0.40	0.02	0.42
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	13.32	0.72	14.04
	DeHavilland DHC-8-300	PW123E	NONE	14.97		14.97
	Hawker HS748-2A	RDA7	NONE	0.02	0.01	0.03
	Lockheed C-130 Hercules	T56-1	NONE	0.01		0.01
	Piper PA-42 Cheyenne Series	PT6A41	NONE	0.05	0.00	0.06
Raytheon Beech 1900-C	PT67B	NONE	0.01		0.01	
<b>Piston</b>	1985 1-ENG COMP	TIO540	NONE	5.01	0.13	5.14
	Cessna 150 Series	O200	NONE	0.79	0.05	0.84
	Cessna 172 Skyhawk	IO360	NONE	0.69	0.32	1.01
	Cessna 182	IO360	NONE	0.37	0.04	0.41
	Cessna 206	TIO540	IO-540-AC	0.11		0.11
	Piper PA-30 Twin Comanche	IO320	NONE	0.03		0.03
	Raytheon Beech Baron 58	TIO540	NONE	4.60	1.48	6.08
<b>Helicopter</b>	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.03	0.04	0.07
	Bell 206 JetRanger	250B17	NONE	0.47	0.04	0.51
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.67	0.36	1.03
	Bell 427	TPE1	NONE	1.77	0.60	2.37
	Bell 429	TPE1	NONE	0.01		0.01
	Bell UH-1 Iroquois	T400	NONE	0.06		0.06
	Robinson R22 Mariner	IO320	NONE	0.04		0.04
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.32	0.04	0.35
	Sikorsky S-76 Spirit	T70070	NONE	0.16	0.01	0.16
<b>Total</b>				<b>597.24</b>	<b>77.19</b>	<b>674.43</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.4**  
**2026 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod 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	Airbus A300F4-600 Series	1PW056	NONE	0.20	0.05	2.37	0.21											2.58	0.26	2.84
	Airbus A350-900 series	01P18RR124	NONE													0.32		0.32	0.00	0.32
	Boeing 767-300 ER	1PW043	NONE	0.07	0.03	4.25	1.05	0.27		1.27								5.85	1.08	6.93
	Boeing MD-11	1PW056	NONE			1.18	0.61											1.18	0.61	1.79
Narrowbody	Airbus A319-100 Series	7CM048	NONE	3.22	1.16	6.20	0.19	3.90		0.02	0.00							13.34	1.35	14.69
	Airbus A320-200 Series	3IA007	NONE	2.05	0.43	16.71	1.25	17.84	0.07	1.50	0.34							38.10	2.09	40.20
	Airbus A320-NEO	01P20CM128	NONE	4.86	1.59	11.62		3.74		1.39	2.04							21.60	3.62	25.23
	Airbus A321-200 Series	1IA005	NONE	3.27	0.08	16.61	1.84	8.60	0.20	2.18	0.06	0.16						30.81	2.18	32.99
	Boeing 737-700 Series	3CM030	NONE	5.40	0.47	19.97	1.38	7.46	0.51	1.80	0.27							34.62	2.63	37.25
	Boeing 737-8	01P20CM136	NONE	9.89	1.22	18.65	1.00	4.22	0.03	5.06	2.90							37.82	5.14	42.97
	Boeing 737-800 Series	3CM034	NONE	4.39	0.87	24.14	1.76	8.75	0.02	7.33	0.58	2.84	0.06					47.45	3.28	50.73
	Boeing 757-200 Series	4PW073	NONE	2.23	0.36	0.07	0.05			0.07								2.36	0.41	2.77
	Boeing 757-200 Series	5RR039	NONE	0.23	0.70	2.23	0.43		0.02		0.01							2.45	1.15	3.60
Regional Jet	Boeing 757-300 Series	XPW204	NONE	0.42	0.03	0.06	0.03	0.02										0.49	0.06	0.55
	Bombardier Challenger 600	01P05GE189	NONE	3.13	0.18													3.13	0.18	3.31
	Bombardier Challenger 601	1GE034	NONE	0.62	0.02													0.62	0.02	0.63
	Bombardier CRJ-900-ER	01P08GE190	NONE			0.67												0.67	0.00	0.67
	Embraer ERJ170	01P08GE197	NONE			0.30		0.07										0.38	0.20	0.38
	Embraer ERJ175	01P08GE198	NONE	2.03	0.19	4.15	0.00	0.12										6.30	0.00	6.49
Business Jet	Embraer ERJ190	XCF10E	NONE	0.01						0.01								0.01	0.00	0.01
	Bombardier Global 5000	01P04BR013	NONE	0.08	0.02	0.06	0.01			0.02				0.01				0.17	0.03	0.20
	Bombardier Global Express	4BR002	NONE	0.17	0.01	0.09		0.03		0.02	0.01			0.01	0.01		0.01	0.32	0.03	0.35
	Bombardier Learjet 35	1AS001	NONE	6.99	0.81													6.99	0.81	7.80
	Cessna 500 Citation I	1PW035	NONE	4.15	0.34													4.15	0.34	4.48
	Cessna 525 CitationJet	10PW099	NONE	0.19	0.01													0.19	0.01	0.20
	Cessna 550 Citation II	1PW036	NONE	4.88	0.26													4.88	0.26	5.14
	Cessna 560 Citation Encore	PW530	NONE	0.92	0.05													0.92	0.05	0.98
	Cessna 560 Citation Excel	PW530	NONE	2.56	0.08													2.56	0.08	2.63
	Cessna 560 Citation V	1PW037	NONE	0.61	0.17													0.61	0.17	0.79
	Cessna 650 Citation III	1AS001	NONE	0.29	0.03													0.29	0.03	0.32
	Cessna 680 Citation Sovereign	7PW078	NONE	2.34	0.10													2.34	0.10	2.44
	Cessna 750 Citation X	6AL022	NONE	2.71	0.09													2.71	0.09	2.80
	CESSNA CITATION 510	PW610F	NONE	1.15	0.25													1.15	0.25	1.40
	Dassault Falcon 20-C	1AS002	NONE			0.01												0.01	0.05	0.01
	Dassault Falcon 900-EX	1AS002	NONE	0.71	0.02	0.30	0.03	0.12		0.05								1.18	0.01	1.22
Eclipse 500 / PW610F	PW610F-A	NONE	0.08		0.03	0.01	0.01										0.12	0.01	0.12	

**TABLE B-2.4**  
**2026 ANNUAL AVERAGE DAY AEDT AIRCRAFT DEPARTURE OPERATIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod 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			
	Gulfstream G650	01P11BR016	NONE	0.10	0.01	0.06		0.01		0.01								0.17	0.07	0.18
	Gulfstream IV-SP	1RR019	NONE	1.42	0.07													1.42	0.16	1.49
	Gulfstream V-SP	3BR001	NONE	1.75	0.16													1.75	0.01	1.91
	Israel IAI-1121 Commodore	CJ6102	NONE	0.13	0.01													0.13	0.03	0.14
Turboprop	Cessna 180 (FAS)	TIO540	NONE	1.94	0.08													1.94	0.08	2.02
	Cessna 208 Caravan	PT6A14	NONE	2.21	0.15													2.21	0.15	2.36
	Cessna 441 Conquest II	TPE8	NONE	0.20	0.01													0.20	0.01	0.21
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	6.60	0.42													6.60	0.42	7.02
	DeHavilland DHC-8-300	PW123E	NONE	7.48														7.48	0.01	7.48
	Hawker HS748-2A	RDA7	NONE	0.01	0.01													0.01	0.00	0.02
	Lockheed C-130 Hercules	T56-1	NONE	0.01														0.01	0.00	0.01
	Piper PA-42 Cheyenne Series	PT6A41	NONE	0.02	0.00													0.02	0.00	0.03
Piston	Raytheon Beech 1900-C	PT67B	NONE			0.01												0.01	0.00	0.01
	1985 1-ENG COMP	TIO540	NONE	2.49	0.07	0.01												2.50	0.07	2.57
	Cessna 150 Series	O200	NONE	0.39	0.03													0.39	0.03	0.42
	Cessna 172 Skyhawk	IO360	NONE	0.31	0.20													0.31	0.20	0.50
	Cessna 182	IO360	NONE	0.18	0.03													0.18	0.03	0.20
	Cessna 206	TIO540	IO-540-AC	0.05														0.05	0.73	0.05
	Piper PA-30 Twin Comanche	IO320	NONE	0.02														0.02	0.07	0.02
Helicopter	Raytheon Beech Baron 58	TIO540	NONE	2.31	0.73													2.31	0.03	3.04
	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.03	0.01													0.03	0.01	0.04
	Bell 206 JetRanger	250B17	NONE	0.23	0.03													0.23	0.03	0.26
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	0.25	0.27													0.25	0.27	0.52
	Bell 427	TPE1	NONE	0.95	0.24													0.95	0.24	1.18
	Bell 429	TPE1	NONE	0.01														0.01	0.01	0.01
	Bell UH-1 Iroquois	T400	NONE	0.03														0.03	0.01	0.03
	Robinson R22 Mariner	IO320	NONE	0.02														0.02	0.01	0.02
Total	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	0.17	0.01													0.17	0.03	0.18
	Sikorsky S-76 Spirit	T70070	NONE	0.08	0.01													0.08	0.27	0.08
				<b>99.20</b>	<b>12.14</b>	<b>129.74</b>	<b>9.84</b>	<b>55.12</b>	<b>0.85</b>	<b>20.72</b>	<b>6.20</b>	<b>3.00</b>	<b>0.06</b>	<b>0.02</b>	<b>0.01</b>	<b>0.32</b>	<b>0.01</b>	<b>308.12</b>	<b>29.09</b>	<b>337.22</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.5  
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Arrival		Departure	
				Day	Night	Day	Night
Widebody	Airbus A300F4-600 Series	1PW056	NONE	38.2%	61.8%	90.9%	9.1%
	Airbus A340-200 Series	7CM049	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 767-200 Series	1GE026	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 767-300 ER	1PW043	NONE	68.9%	31.1%	84.4%	15.6%
	Boeing 767-300 Series	1RR011	NONE	86.8%	13.2%	99.1%	0.9%
	Boeing 767-400	3GE058	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 777-200 Series	1PW055	NONE	100.0%	0.0%	97.8%	2.2%
	Boeing DC-10-40 Series	JT9D7A	NONE	69.4%	30.6%	65.7%	34.3%
	Boeing MD-11	1PW056	NONE	66.8%	33.2%	65.7%	34.3%
Narrowbody	Airbus A319-100 Series	7CM048	NONE	90.9%	9.1%	90.8%	9.2%
	Airbus A320-200 Series	3IA007	NONE	88.7%	11.3%	94.8%	5.2%
	Airbus A320-NEO	01P20CM128	NONE	84.4%	15.6%	85.6%	14.4%
	Airbus A321-200 Series	1IA005	NONE	82.6%	17.4%	93.4%	6.6%
	Boeing 717-200 Series	4BR002	NONE	100.0%	0.0%	78.2%	21.8%
	Boeing 737-300 Series	1CM007	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 737-400 Series	1CM007	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 737-700 Series	3CM030	NONE	87.7%	12.3%	92.4%	7.6%
	Boeing 737-8	01P20CM136	NONE	85.4%	14.6%	88.1%	11.9%
	Boeing 737-800 Series	3CM034	NONE	83.6%	16.4%	93.6%	6.4%
	Boeing 757-200 Series	4PW073	NONE	76.2%	23.8%	85.2%	14.8%
	Boeing 757-200 Series	5RR039	NONE	33.6%	66.4%	68.1%	31.9%
Boeing 757-300 Series	XPW204	NONE	77.3%	22.7%	89.2%	10.8%	
Regional Jet	Bombardier Challenger 600	01P05GE189	NONE	95.0%	5.0%	94.5%	5.5%
	Bombardier Challenger 601	1GE034	NONE	91.6%	8.4%	97.6%	2.4%
	Bombardier CRJ-900-ER	01P08GE190	NONE	100.0%	0.0%	100.0%	0.0%
	Embraer ERJ145	6AL008	NONE	70.1%	29.9%	76.8%	23.2%
	Embraer ERJ170	01P08GE197	NONE	100.0%	0.0%	100.0%	0.0%
	Embraer ERJ175	01P08GE198	NONE	94.3%	5.7%	97.0%	3.0%
	Embraer ERJ190	XCF10E	NONE	99.7%	0.3%	100.0%	0.0%
Business Jet	Bombardier Global 5000	01P04BR013	NONE	97.4%	2.6%	85.0%	15.0%
	Bombardier Global Express	4BR002	NONE	92.6%	7.4%	92.6%	7.4%
	Bombardier Learjet 35	1AS001	NONE	89.5%	10.5%	89.6%	10.4%
	Cessna 500 Citation I	1PW035	NONE	92.8%	7.2%	92.5%	7.5%
	Cessna 525 CitationJet	10PW099	NONE	100.0%	0.0%	97.4%	2.6%
	Cessna 550 Citation II	1PW036	NONE	94.8%	5.2%	94.9%	5.1%
	Cessna 560 Citation Encore	PW530	NONE	92.6%	7.4%	94.8%	5.2%



**TABLE B-2.5  
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Arrival		Departure	
				Day	Night	Day	Night
	Cessna 560 Citation Excel	PW530	NONE	96.9%	3.1%	97.0%	3.0%
	Cessna 560 Citation V	1PW037	NONE	79.2%	20.8%	77.8%	22.2%
	Cessna 650 Citation III	1AS001	NONE	95.3%	4.7%	90.3%	9.7%
	Cessna 680 Citation Sovereign	7PW078	NONE	96.4%	3.6%	96.0%	4.0%
	Cessna 750 Citation X	6AL022	NONE	94.3%	5.7%	96.7%	3.3%
	CESSNA CITATION 510	PW610F	NONE	82.4%	17.6%	82.1%	17.9%
	Dassault Falcon 20-C	1AS002	NONE	0.0%	100.0%	100.0%	0.0%
	Dassault Falcon 900-EX	1AS002	NONE	96.7%	3.3%	96.2%	3.8%
	Eclipse 500 / PW610F	PW610F-A	NONE	95.8%	4.2%	95.7%	4.3%
	Gulfstream G650	01P11BR016	NONE	94.3%	5.7%	97.1%	2.9%
	Gulfstream IV-SP	1RR019	NONE	92.7%	7.3%	95.5%	4.5%
	Gulfstream V-SP	3BR001	NONE	87.7%	12.3%	91.6%	8.4%
	Israel IAI-1121 Commodore	CJ6102	NONE	88.9%	11.1%	92.2%	7.8%
<b>Turboprop</b>	Cessna 180 (FAS)	TIO540	NONE	96.8%	3.2%	96.2%	3.8%
	Cessna 208 Caravan	PT6A14	NONE	95.4%	4.6%	93.7%	6.3%
	Cessna 441 Conquest II	TPE8	NONE	95.1%	4.9%	95.1%	4.9%
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	95.8%	4.2%	94.0%	6.0%
	DeHavilland DHC-8-300	PW123E	NONE	100.0%	0.0%	100.0%	0.0%
	Hawker HS748-2A	RDA7	NONE	100.0%	0.0%	33.3%	66.7%
	Lockheed C-130 Hercules	T56-1	NONE	100.0%	0.0%	100.0%	0.0%
	Piper PA-42 Cheyenne Series	PT6A41	NONE	100.0%	0.0%	83.3%	16.7%
	Raytheon Beech 1900-C	PT67B	NONE	100.0%	0.0%	100.0%	0.0%
Saab 340-A	CT7-5	NONE	100.0%	0.0%	100.0%	0.0%	
<b>Piston</b>	1985 1-ENG COMP	TIO540	NONE	97.6%	2.4%	97.2%	2.8%
	Cessna 150 Series	O200	NONE	96.5%	3.5%	92.5%	7.5%
	Cessna 172 Skyhawk	IO360	NONE	75.6%	24.4%	60.8%	39.2%
	Cessna 182	IO360	NONE	95.0%	5.0%	87.2%	12.8%
	Cessna 206	TIO540	IO-540-AC	100.0%	0.0%	100.0%	0.0%
	Piper PA-30 Twin Comanche	IO320	NONE	100.0%	0.0%	100.0%	0.0%
	Raytheon Beech Baron 58	TIO540	NONE	75.2%	24.8%	76.1%	23.9%
<b>Helicopter</b>	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	100.0%	76.9%	23.1%
	Bell 206 JetRanger	250B17	NONE	94.4%	5.6%	90.2%	9.8%
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	81.8%	18.2%	47.9%	52.1%
	Bell 427	TPE1	NONE	69.5%	30.5%	79.9%	20.1%
	Bell 429	TPE1	NONE	100.0%	0.0%	100.0%	0.0%

**TABLE B-2.5**  
**ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Arrival		Departure	
				Day	Night	Day	Night
	Bell UH-1 Iroquois	T400	NONE	100.0%	0.0%	100.0%	0.0%
	Robinson R22 Mariner	IO320	NONE	100.0%	0.0%	100.0%	0.0%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	84.1%	15.9%	95.4%	4.6%
	Sikorsky S-76 Spirit	T70070	NONE	100.0%	0.0%	93.3%	6.7%
<b>Total</b>				<b>86.39%</b>	<b>13.61%</b>	<b>92.39%</b>	<b>7.61%</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.6  
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2026 FUTURE CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Arrival		Departure	
				Day	Night	Day	Night
Widebody	Airbus A300F4-600 Series	1PW056	NONE	38.2%	61.8%	90.9%	9.1%
	Airbus A350-900 series	01P18RR124	NONE	100.0%	0.0%	100.0%	0.0%
	Boeing 767-300 ER	1PW043	NONE	68.9%	31.1%	84.4%	15.6%
	Boeing MD-11	1PW056	NONE	66.8%	33.2%	65.7%	34.3%
Narrowbody	Airbus A319-100 Series	7CM048	NONE	90.9%	9.1%	90.8%	9.2%
	Airbus A320-200 Series	3IA007	NONE	88.7%	11.3%	94.8%	5.2%
	Airbus A320-NEO	01P20CM128	NONE	84.4%	15.6%	85.6%	14.4%
	Airbus A321-200 Series	1IA005	NONE	82.6%	17.4%	93.4%	6.6%
	Boeing 737-700 Series	3CM030	NONE	88.8%	11.2%	92.9%	7.1%
	Boeing 737-8	01P20CM136	NONE	84.1%	15.9%	88.0%	12.0%
	Boeing 737-800 Series	3CM034	NONE	83.1%	16.9%	93.5%	6.5%
	Boeing 757-200 Series	4PW073	NONE	76.2%	23.8%	85.2%	14.8%
	Boeing 757-200 Series	5RR039	NONE	33.6%	66.4%	68.1%	31.9%
Boeing 757-300 Series	XPW204	NONE	77.3%	22.7%	89.2%	10.8%	
Regional Jet	Bombardier Challenger 600	01P05GE189	NONE	95.0%	5.0%	94.5%	5.5%
	Bombardier Challenger 601	1GE034	NONE	91.6%	8.4%	97.6%	2.4%
	Bombardier CRJ-900-ER	01P08GE190	NONE	100.0%	0.0%	100.0%	0.0%
	Embraer ERJ170	01P08GE197	NONE	100.0%	0.0%	100.0%	0.0%
	Embraer ERJ175	01P08GE198	NONE	94.3%	5.7%	97.0%	3.0%
	Embraer ERJ190	XCF10E	NONE	100.0%	0.0%	100.0%	0.0%
Business Jet	Bombardier Global 5000	01P04BR013	NONE	97.4%	2.6%	85.0%	15.0%
	Bombardier Global Express	4BR002	NONE	92.6%	7.4%	92.6%	7.4%
	Bombardier Learjet 35	1AS001	NONE	89.5%	10.5%	89.6%	10.4%
	Cessna 500 Citation I	1PW035	NONE	92.8%	7.2%	92.5%	7.5%
	Cessna 525 CitationJet	10PW099	NONE	100.0%	0.0%	97.4%	2.6%
	Cessna 550 Citation II	1PW036	NONE	94.8%	5.2%	94.9%	5.1%
	Cessna 560 Citation Encore	PW530	NONE	92.6%	7.4%	94.8%	5.2%
	Cessna 560 Citation Excel	PW530	NONE	96.9%	3.1%	97.0%	3.0%
	Cessna 560 Citation V	1PW037	NONE	79.2%	20.8%	77.8%	22.2%
	Cessna 650 Citation III	1AS001	NONE	95.3%	4.7%	90.3%	9.7%
	Cessna 680 Citation Sovereign	7PW078	NONE	96.4%	3.6%	96.0%	4.0%
	Cessna 750 Citation X	6AL022	NONE	94.3%	5.7%	96.7%	3.3%
	CESSNA CITATION 510	PW610F	NONE	82.4%	17.6%	82.1%	17.9%
	Dassault Falcon 20-C	1AS002	NONE	0.0%	100.0%	100.0%	0.0%
Dassault Falcon 900-EX	1AS002	NONE	96.7%	3.3%	96.2%	3.8%	

**TABLE B-2.6  
ANNUAL AIRCRAFT OPERATIONS BY TIME OF DAY – 2026 FUTURE CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Arrival		Departure	
				Day	Night	Day	Night
	Eclipse 500 / PW610F	PW610F-A	NONE	95.8%	4.2%	95.7%	4.3%
	Gulfstream G650	01P11BR016	NONE	94.3%	5.7%	97.1%	2.9%
	Gulfstream IV-SP	1RR019	NONE	92.7%	7.3%	95.5%	4.5%
	Gulfstream V-SP	3BR001	NONE	87.7%	12.3%	91.6%	8.4%
	Israel IAI-1121 Commodore	CJ6102	NONE	88.9%	11.1%	92.2%	7.8%
Turboprop	Cessna 180 (FAS)	TIO540	NONE	96.8%	3.2%	96.2%	3.8%
	Cessna 208 Caravan	PT6A14	NONE	95.4%	4.6%	93.7%	6.3%
	Cessna 441 Conquest II	TPE8	NONE	95.1%	4.9%	95.1%	4.9%
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	95.8%	4.2%	94.0%	6.0%
	DeHavilland DHC-8-300	PW123E	NONE	100.0%	0.0%	100.0%	0.0%
	Hawker HS748-2A	RDA7	NONE	100.0%	0.0%	33.3%	66.7%
	Lockheed C-130 Hercules	T56-1	NONE	100.0%	0.0%	100.0%	0.0%
	Piper PA-42 Cheyenne Series	PT6A41	NONE	100.0%	0.0%	83.3%	16.7%
Raytheon Beech 1900-C	PT67B	NONE	100.0%	0.0%	100.0%	0.0%	
Piston	1985 1-ENG COMP	TIO540	NONE	97.6%	2.4%	97.2%	2.8%
	Cessna 150 Series	O200	NONE	96.5%	3.5%	92.5%	7.5%
	Cessna 172 Skyhawk	IO360	NONE	75.6%	24.4%	60.8%	39.2%
	Cessna 182	IO360	NONE	95.0%	5.0%	87.2%	12.8%
	Cessna 206	TIO540	IO-540-AC	100.0%	0.0%	100.0%	0.0%
	Piper PA-30 Twin Comanche	IO320	NONE	100.0%	0.0%	100.0%	0.0%
	Raytheon Beech Baron 58	TIO540	NONE	75.2%	24.8%	76.1%	23.9%
Helicopter	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	0.0%	100.0%	76.9%	23.1%
	Bell 206 JetRanger	250B17	NONE	94.4%	5.6%	90.2%	9.8%
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	81.8%	18.2%	47.9%	52.1%
	Bell 427	TPE1	NONE	69.5%	30.5%	79.9%	20.1%
	Bell 429	TPE1	NONE	100.0%	0.0%	100.0%	0.0%
	Bell UH-1 Iroquois	T400	NONE	100.0%	0.0%	100.0%	0.0%
	Robinson R22 Mariner	IO320	NONE	100.0%	0.0%	100.0%	0.0%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	84.1%	15.9%	95.4%	4.6%
	Sikorsky S-76 Spirit	T70070	NONE	100.0%	0.0%	93.3%	6.7%
<b>Total</b>				<b>85.7%</b>	<b>14.3%</b>	<b>91.4%</b>	<b>8.6%</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.7  
DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
Widebody	Airbus A300F4-600 Series	1PW056	NONE	8.9%	91.1%	0.0%	0.0%	0.0%	0.0%	0.0%
	Airbus A340-200 Series	7CM049	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	Boeing 767-200 Series	1GE026	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Boeing 767-300 ER	1PW043	NONE	1.4%	76.4%	3.8%	18.3%	0.0%	0.0%	0.0%
	Boeing 767-300 Series	1RR011	NONE	86.3%	0.0%	12.8%	0.9%	0.0%	0.0%	0.0%
	Boeing 767-400	3GE058	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Boeing 777-200 Series	1PW055	NONE	1.1%	0.0%	2.2%	0.0%	0.0%	96.8%	0.0%
	Boeing DC-10-40 Series	JT9D7A	NONE	1.9%	98.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Boeing MD-11	1PW056	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Narrowbody	Airbus A319-100 Series	7CM048	NONE	29.8%	43.5%	26.5%	0.2%	0.0%	0.0%	0.0%
	Airbus A320-200 Series	3IA007	NONE	6.2%	44.7%	44.6%	4.6%	0.0%	0.0%	0.0%
	Airbus A320-NEO	01P20CM128	NONE	25.5%	46.1%	14.8%	13.6%	0.0%	0.0%	0.0%
	Airbus A321-200 Series	1IA005	NONE	10.2%	55.9%	26.7%	6.8%	0.5%	0.0%	0.0%
	Boeing 717-200 Series	4BR002	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Boeing 737-300 Series	1CM007	NONE	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%	0.0%
	Boeing 737-400 Series	1CM007	NONE	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%
	Boeing 737-700 Series	3CM030	NONE	17.9%	58.2%	17.6%	6.3%	0.0%	0.0%	0.0%
	Boeing 737-8	01P20CM136	NONE	24.1%	42.4%	5.3%	28.3%	0.0%	0.0%	0.0%
	Boeing 737-800 Series	3CM034	NONE	9.9%	51.6%	17.7%	15.3%	5.6%	0.0%	0.0%
	Boeing 757-200 Series	4PW073	NONE	93.4%	4.3%	0.0%	2.4%	0.0%	0.0%	0.0%
	Boeing 757-200 Series	5RR039	NONE	25.8%	73.6%	0.4%	0.2%	0.0%	0.0%	0.0%
Boeing 757-300 Series	XPW204	NONE	80.5%	16.7%	2.9%	0.0%	0.0%	0.0%	0.0%	
Regional Jet	Bombardier Challenger 600	01P05GE189	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bombardier Challenger 601	1GE034	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

**TABLE B-2.7**  
**DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
	Bombardier CRJ-900-ER	01P08GE190	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ145	6AL008	NONE	37.6%	62.4%	0.0%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ170	01P08GE197	NONE	0.0%	80.9%	19.1%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ175	01P08GE198	NONE	34.2%	64.0%	1.8%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ190	XCF10E	NONE	0.1%	54.3%	45.4%	0.1%	0.0%	0.0%	0.0%
<b>Business Jet</b>	Bombardier Global 5000	01P04BR013	NONE	50.0%	35.0%	0.0%	10.0%	0.0%	5.0%	0.0%
	Bombardier Global Express	4BR002	NONE	51.3%	27.0%	7.9%	6.2%	0.0%	6.1%	1.5%
	Bombardier Learjet 35	1AS001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 500 Citation I	1PW035	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 525 CitationJet	10PW099	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 550 Citation II	1PW036	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation Encore	PW530	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation Excel	PW530	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation V	1PW037	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 650 Citation III	1AS001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 680 Citation Sovereign	7PW078	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 750 Citation X	6AL022	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	CESSNA CITATION 510	PW610F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Dassault Falcon 20-C	1AS002	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Dassault Falcon 900-EX	1AS002	NONE	60.7%	25.8%	9.7%	3.8%	0.0%	0.0%	0.0%
	Eclipse 500 / PW610F	PW610F-A	NONE	65.2%	30.4%	4.3%	0.0%	0.0%	0.0%	0.0%
	Gulfstream G650	01P11BR016	NONE	60.2%	34.1%	2.9%	2.9%	0.0%	0.0%	0.0%
	Gulfstream IV-SP	1RR019	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gulfstream V-SP	3BR001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

**TABLE B-2.7  
DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
	Israel IAI-1121 Commodore	CJ6102	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Turboprop</b>	Cessna 180 (FAS)	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 208 Caravan	PT6A14	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 441 Conquest II	TPE8	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	DeHavilland DHC-8-300	PW123E	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Hawker HS748-2A	RDA7	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lockheed C-130 Hercules	T56-1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Piper PA-42 Cheyenne Series	PT6A41	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Raytheon Beech 1900-C	PT67B	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Saab 340-A	CT7-5	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Piston</b>	1985 1-ENG COMP	TIO540	NONE	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 150 Series	O200	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 172 Skyhawk	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 182	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 206	TIO540	IO-540-AC	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Piper PA-30 Twin Comanche	IO320	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Raytheon Beech Baron 58	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Helicopters</b>	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 206 JetRanger	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 427	TPE1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 429	TPE1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

**TABLE B-2.7**  
**DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2021 EXISTING CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
	Bell UH-1 Iroquois	T400	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Robinson R22 Mariner	IO320	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Sikorsky S-76 Spirit	T70070	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Total</b>				<b>34.8%</b>	<b>39.8%</b>	<b>18.0%</b>	<b>6.1%</b>	<b>1.1%</b>	<b>0.1%</b>	<b>0.1%</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.



**TABLE B-2.8**  
**DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2026 FUTURE CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
Widebody	Airbus A300F4-600 Series	1PW056	NONE	8.9%	91.1%	0.0%	0.0%	0.0%	0.0%	0.0%
	Airbus A350-900 series	01P18RR124	NONE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	Boeing 767-300 ER	1PW043	NONE	1.4%	76.4%	3.8%	18.3%	0.0%	0.0%	0.0%
	Boeing MD-11	1PW056	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Narrowbody	Airbus A319-100 Series	7CM048	NONE	29.8%	43.5%	26.5%	0.2%	0.0%	0.0%	0.0%
	Airbus A320-200 Series	3IA007	NONE	6.2%	44.7%	44.6%	4.6%	0.0%	0.0%	0.0%
	Airbus A320-NEO	01P20CM128	NONE	25.5%	46.1%	14.8%	13.6%	0.0%	0.0%	0.0%
	Airbus A321-200 Series	1IA005	NONE	10.2%	55.9%	26.7%	6.8%	0.5%	0.0%	0.0%
	Boeing 737-700 Series	3CM030	NONE	15.8%	57.3%	21.4%	5.5%	0.0%	0.0%	0.0%
	Boeing 737-8	01P20CM136	NONE	25.9%	45.7%	9.9%	18.5%	0.0%	0.0%	0.0%
	Boeing 737-800 Series	3CM034	NONE	10.4%	51.0%	17.3%	15.6%	5.7%	0.0%	0.0%
	Boeing 757-200 Series	4PW073	NONE	93.4%	4.3%	0.0%	2.4%	0.0%	0.0%	0.0%
	Boeing 757-200 Series	5RR039	NONE	25.8%	73.6%	0.4%	0.2%	0.0%	0.0%	0.0%
Boeing 757-300 Series	XPW204	NONE	80.5%	16.7%	2.9%	0.0%	0.0%	0.0%	0.0%	
Regional Jet	Bombardier Challenger 600	01P05GE189	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bombardier Challenger 601	1GE034	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bombardier CRJ-900-ER	01P08GE190	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ170	01P08GE197	NONE	0.0%	80.9%	19.1%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ175	01P08GE198	NONE	34.2%	64.0%	1.8%	0.0%	0.0%	0.0%	0.0%
	Embraer ERJ190	XCF10E	NONE	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%
Business Jet	Bombardier Global 5000	01P04BR013	NONE	50.0%	35.0%	0.0%	10.0%	0.0%	5.0%	0.0%
	Bombardier Global Express	4BR002	NONE	51.3%	27.0%	7.9%	6.2%	0.0%	6.1%	1.5%
	Bombardier Learjet 35	1AS001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 500 Citation I	1PW035	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

**TABLE B-2.8**  
**DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2026 FUTURE CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
	Cessna 525 CitationJet	10PW099	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 550 Citation II	1PW036	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation Encore	PW530	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation Excel	PW530	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 560 Citation V	1PW037	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 650 Citation III	1AS001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 680 Citation Sovereign	7PW078	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 750 Citation X	6AL022	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	CESSNA CITATION 510	PW610F	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Dassault Falcon 20-C	1AS002	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Dassault Falcon 900-EX	1AS002	NONE	59.9%	26.6%	9.7%	3.8%	0.0%	0.0%	0.0%
	Eclipse 500 / PW610F	PW610F-A	NONE	65.2%	30.4%	4.3%	0.0%	0.0%	0.0%	0.0%
	Gulfstream G650	01P11BR016	NONE	60.2%	34.1%	2.9%	2.9%	0.0%	0.0%	0.0%
	Gulfstream IV-SP	1RR019	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Gulfstream V-SP	3BR001	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Israel IAI-1121 Commodore	CJ6102	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Turboprop	Cessna 180 (FAS)	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 208 Caravan	PT6A14	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 441 Conquest II	TPE8	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	DeHavilland DHC-8-300	PW123E	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Hawker HS748-2A	RDA7	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lockheed C-130 Hercules	T56-1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Piper PA-42 Cheyenne Series	PT6A41	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

**TABLE B-2.8  
DEPARTURE STAGE LENGTH BY AEDT AIRCRAFT TYPE – 2026 FUTURE CONDITIONS**

Aircraft Category	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Stage Length						
				1	2	3	4	5	6	7
	Raytheon Beech 1900-C	PT67B	NONE	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Piston</b>	1985 1-ENG COMP	TIO540	NONE	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 150 Series	O200	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 172 Skyhawk	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 182	IO360	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Cessna 206	TIO540	IO-540-AC	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Piper PA-30 Twin Comanche	IO320	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Raytheon Beech Baron 58	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Helicopters</b>	Aerospatiale SA-350D Astar (AS-350)	TPE3	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 206 JetRanger	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 407 / Rolls-Royce 250-C47B	250B17	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 427	TPE1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell 429	TPE1	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Bell UH-1 Iroquois	T400	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Robinson R22 Mariner	IO320	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Robinson R44 Raven / Lycoming O-540-F1B5	TIO540	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sikorsky S-76 Spirit	T70070	NONE	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>Total</b>				<b>33.0%</b>	<b>41.4%</b>	<b>16.6%</b>	<b>8.0%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.1%</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.9**  
**ARRIVAL RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2021 EXISTING CONDITIONS**

Aircraft Category	10	28	1L	19R	1R	19L
<b>Daytime Arrival</b>						
Widebody	0.0%	0.1%	53.6%	33.2%	3.1%	10.0%
Narrowbody	0.1%	0.1%	48.9%	20.6%	3.6%	26.7%
Regional Jet	0.1%	1.6%	43.0%	11.8%	11.8%	31.7%
Business Jet	0.5%	7.1%	23.4%	6.3%	24.8%	37.8%
Turboprop	0.3%	14.3%	5.3%	2.8%	45.6%	31.7%
Piston	1.6%	29.0%	3.8%	2.5%	38.3%	24.7%
<b>Total</b>	<b>0.2%</b>	<b>2.8%</b>	<b>41.3%</b>	<b>16.9%</b>	<b>10.6%</b>	<b>28.3%</b>
<b>Nighttime Arrival</b>						
Widebody	0.0%	0.0%	49.3%	34.3%	5.4%	11.0%
Narrowbody	0.3%	0.01%	57.3%	19.3%	2.0%	21.1%
Regional Jet	3.2%	0.4%	46.7%	13.6%	10.7%	25.5%
Business Jet	3.3%	7.9%	31.0%	3.0%	23.3%	31.5%
Turboprop	3.2%	16.8%	3.2%	2.5%	44.8%	29.4%
Piston	1.8%	44.1%	5.7%	1.3%	33.0%	14.1%
<b>Total</b>	<b>0.6%</b>	<b>1.9%</b>	<b>52.6%</b>	<b>18.7%</b>	<b>5.3%</b>	<b>20.9%</b>

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

<b>TABLE B-2.10 DEPARTURE RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2021 EXISTING CONDITIONS</b>						
<b>Aircraft Category</b>	<b>10</b>	<b>28</b>	<b>1L</b>	<b>19R</b>	<b>1R</b>	<b>19L</b>
<b>Daytime Departure</b>						
Widebody	0.0%	0.0%	46.6%	35.0%	13.1%	5.3%
Narrowbody	0.01%	0.02%	22.2%	42.1%	30.6%	5.1%
Regional Jet	0.5%	1.6%	9.2%	26.3%	45.5%	17.0%
Business Jet	2.4%	6.9%	3.7%	4.7%	44.9%	37.3%
Turboprop	5.7%	5.8%	6.0%	2.3%	44.3%	35.9%
Piston	19.7%	8.5%	3.3%	2.2%	40.0%	26.4%
<b>Total</b>	<b>1.1%</b>	<b>1.5%</b>	<b>18.6%</b>	<b>33.1%</b>	<b>33.6%</b>	<b>12.1%</b>
<b>Nighttime Departure</b>						
Widebody	0.0%	0.0%	47.5%	34.1%	14.7%	3.7%
Narrowbody	0.01%	0.01%	25.5%	42.6%	27.5%	4.4%
Regional Jet	1.1%	6.2%	5.3%	11.5%	53.5%	22.4%
Business Jet	6.9%	14.7%	4.1%	1.2%	50.6%	22.5%
Turboprop	14.7%	9.9%	1.8%	0.8%	48.6%	24.3%
Piston	49.0%	1.2%	3.1%	1.6%	36.2%	9.0%
<b>Total</b>	<b>3.7%</b>	<b>2.3%</b>	<b>22.1%</b>	<b>33.1%</b>	<b>31.0%</b>	<b>7.7%</b>
<b>NOTES:</b> Total values may not add up due to rounding. Does not include helicopter operations.						
<b>SOURCE:</b> Environmental Science Associates, 2021.						

<b>TABLE B-2.11 ARRIVAL RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2026 FUTURE CONDITIONS</b>						
<b>Aircraft Category</b>	<b>10</b>	<b>28</b>	<b>1L</b>	<b>19R</b>	<b>1R</b>	<b>19L</b>
<b>Daytime Arrival</b>						
Widebody	0.0%	0.12%	55.2%	31.9%	2.5%	10.4%
Narrowbody	0.04%	0.12%	48.9%	24.9%	3.2%	22.9%
Regional Jet	0.1%	1.8%	42.2%	11.9%	14.7%	29.4%
Business Jet	0.5%	7.1%	23.4%	6.3%	24.8%	37.8%
Turboprop	0.3%	13.2%	5.4%	2.7%	46.7%	31.7%
Piston	1.6%	29.0%	3.8%	2.5%	38.3%	24.7%
<b>Total</b>	<b>0.1%</b>	<b>2.4%</b>	<b>42.2%</b>	<b>20.6%</b>	<b>9.5%</b>	<b>25.1%</b>
<b>Nighttime Arrival</b>						
Widebody	0.0%	0.0%	49.3%	35.9%	4.9%	10.0%
Narrowbody	1.3%	0.03%	57.9%	20.3%	1.7%	18.8%
Regional Jet	3.1%	0.4%	46.4%	12.7%	12.0%	25.4%
Business Jet	3.3%	7.9%	31.0%	3.0%	23.3%	31.5%
Turboprop	3.2%	16.8%	3.2%	2.5%	44.8%	29.4%
Piston	1.8%	44.1%	5.7%	1.3%	33.0%	14.1%
<b>Total</b>	<b>1.4%</b>	<b>1.5%</b>	<b>53.8%</b>	<b>20.1%</b>	<b>4.4%</b>	<b>18.8%</b>
<b>NOTES:</b> Total values may not add up due to rounding. Does not include helicopter operations.						
<b>SOURCE:</b> Environmental Science Associates, 2021.						

**TABLE B-2.12  
DEPARTURE RUNWAY USE BY AIRCRAFT CATEGORY AND TIME OF DAY – 2026 FUTURE CONDITIONS**

Aircraft Category	10	28	1L	19R	1R	19L
<b>Daytime Departure</b>						
Widebody	0.0%	0.0%	46.4%	35.5%	13.2%	4.9%
Narrowbody	0.01%	0.02%	25.4%	43.2%	27.0%	4.4%
Regional Jet	0.6%	1.9%	9.9%	22.0%	45.4%	20.3%
Business Jet	2.4%	6.9%	3.7%	4.7%	44.9%	37.3%
Turboprop	5.3%	5.3%	6.5%	2.2%	44.9%	35.8%
Piston	19.7%	8.5%	3.3%	2.2%	40.0%	26.4%
<b>Total</b>	<b>1.0%</b>	<b>1.3%</b>	<b>21.7%</b>	<b>34.9%</b>	<b>30.4%</b>	<b>10.8%</b>
<b>Nighttime Departure</b>						
Widebody	0.0%	0.0%	46.7%	38.0%	12.0%	3.3%
Narrowbody	0.01%	0.01%	25.2%	40.3%	31.0%	3.5%
Regional Jet	1.1%	3.5%	6.2%	13.9%	52.3%	23.1%
Business Jet	6.9%	14.7%	4.1%	1.2%	50.6%	22.5%
Turboprop	14.7%	9.9%	1.8%	0.8%	48.6%	24.3%
Piston	49.0%	1.2%	3.1%	1.6%	36.2%	9.0%
<b>Total</b>	<b>2.8%</b>	<b>1.6%</b>	<b>23.1%</b>	<b>33.9%</b>	<b>32.3%</b>	<b>6.2%</b>

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.13  
HELICOPTER USE AND TIME OF DAY – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Time of Day	Arrival		Departure	
	General Aviation	Law Enforcement	General Aviation	Law Enforcement
<b>2021</b>				
<b>Day</b>	82.2%	17.8%	89.0%	11.0%
<b>Night</b>	87.5%	12.5%	65.7%	34.3%
<b>Total</b>	<b>83.4%</b>	<b>16.6%</b>	<b>83.4%</b>	<b>16.6%</b>
<b>2026</b>				
<b>Day</b>	82.2%	17.8%	89.0%	11.0%
<b>Night</b>	87.5%	12.5%	65.7%	34.3%
<b>Total</b>	<b>83.4%</b>	<b>16.6%</b>	<b>83.4%</b>	<b>16.6%</b>

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.14  
ARRIVAL FLIGHT TRACK USE – 2021 EXISTING CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
<b>Runway 10</b>			<b>Runway 28</b>		
10A01	9.2%	17.6%	28A01	8.5%	1.8%
10A02	16.6%	9.0%	28A02	23.8%	20.0%
10A03	11.6%	28.1%	28A03	8.3%	3.8%
10A04	9.8%	1.6%	28A04	0.3%	0.3%
10A05	26.0%	5.8%	28A05	1.9%	0.3%
10A06	0.0%	9.2%	28A06	3.5%	3.1%
10A07	26.9%	28.7%	28A07	1.4%	1.8%
			28A08	13.4%	45.2%
			28A09	4.3%	1.5%
			28A10	34.4%	22.1%
<b>Runway 1L</b>			<b>Runway 19R</b>		
01LA01	0.2%	0.2%	19RA01	0.1%	0.1%
01LA02	0.3%	0.2%	19RA02	0.3%	0.1%
01LA03	0.1%	0.9%	19RA03	1.3%	0.7%
01LA04	0.0%	0.0%	19RA04	0.1%	3.0%
01LA05	0.3%	0.2%	19RA05	0.3%	0.2%
01LA06	41.1%	29.4%	19RA06	40.1%	33.3%
01LA07	0.1%	0.3%	19RA07	0.2%	0.1%
01LA08	2.4%	2.5%	19RA08	4.0%	2.5%
01LA09	34.8%	40.0%	19RA09	1.8%	0.8%
01LA10	1.0%	0.9%	19RA10	0.4%	0.2%
01LA11	0.1%	0.2%	19RA11	32.5%	41.3%
01LA12	0.1%	0.0%	19RA12	0.9%	0.3%
01LA13	9.7%	9.6%	19RA13	0.2%	0.1%
01LA14	0.3%	0.2%	19RA14	10.1%	5.7%
01LA15	0.0%	0.0%	19RA15	3.4%	3.0%
01LA16	6.6%	4.1%	19RA16	4.2%	8.5%
01LA17	2.7%	11.2%			
01LA18	0.2%	0.2%			
<b>Runway 1R</b>			<b>Runway 19L</b>		
01RA01	0.9%	0.1%	19LA01	0.3%	0.0%
01RA02	0.4%	0.2%	19LA02	0.7%	0.2%
01RA03	1.1%	1.0%	19LA03	4.0%	4.1%
01RA04	0.7%	1.1%	19LA04	0.3%	0.1%
01RA05	0.1%	0.1%	19LA05	0.4%	0.1%
01RA06	24.1%	23.8%	19LA06	0.5%	1.0%
01RA07	0.5%	0.0%	19LA07	36.3%	30.7%
01RA08	0.8%	0.4%	19LA08	0.4%	0.3%



**TABLE B-2.14**  
**ARRIVAL FLIGHT TRACK USE – 2021 EXISTING CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
01RA09	3.9%	3.0%	19LA09	26.2%	19.2%
01RA10	1.4%	1.0%	19LA10	4.6%	14.0%
01RA11	3.0%	4.0%	19LA11	1.5%	0.7%
01RA12	22.4%	25.1%	19LA12	2.2%	1.5%
01RA13	0.5%	0.3%	19LA13	4.7%	3.4%
01RA14	1.2%	7.1%	19LA14	0.5%	0.3%
01RA15	33.9%	24.3%	19LA15	9.1%	8.0%
01RA16	3.3%	2.2%	19LA16	2.7%	3.0%
01RA17	1.9%	6.2%	19LA17	5.6%	13.3%

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

TABLE B-2.15 DEPARTURE FLIGHT TRACK USE – 2021 EXISTING CONDITIONS					
Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10			Runway 28		
10D01	10.3%	6.2%	28D01	3.0%	3.4%
10D02	11.5%	3.4%	28D02	0.9%	2.0%
10D03	3.3%	0.4%	28D03	0.9%	1.7%
10D04	6.3%	2.6%	28D04	2.2%	0.0%
10D05	3.1%	1.0%	28D05	13.1%	6.6%
10D06	6.6%	1.6%	28D06	10.2%	17.0%
10D07	1.2%	0.0%	28D07	19.3%	21.6%
10D08	7.1%	5.1%	28D08	10.1%	10.9%
10D09	8.1%	5.0%	28D09	2.3%	2.1%
10D10	6.0%	3.0%	28D10	1.2%	0.0%
10D11	2.6%	1.1%	28D11	2.7%	1.3%
10D12	9.4%	6.6%	28D12	5.2%	13.2%
10D13	22.4%	64.2%	28D13	4.9%	4.9%
10D14	1.1%	0.0%	28D14	16.7%	10.4%
10D15	1.0%	0.0%	28D15	0.9%	0.0%
			28D16	2.9%	3.4%
			28D17	3.7%	1.3%
Runway 1L			Runway 19R		
01LD01	2.6%	5.1%	19RD01	2.0%	1.0%
01LD02	0.4%	0.7%	19RD02	0.4%	2.4%
01LD03	0.2%	0.1%	19RD03	0.1%	0.6%
01LD04	75.5%	71.4%	19RD04	0.9%	2.1%
01LD05	1.5%	0.6%	19RD05	0.8%	0.9%
01LD06	0.3%	0.2%	19RD06	0.2%	0.2%
01LD07	0.2%	0.1%	19RD07	57.6%	46.1%
01LD08	0.9%	3.9%	19RD08	16.8%	22.3%
01LD09	1.5%	1.2%	19RD09	0.4%	1.3%
01LD10	7.1%	7.4%	19RD10	0.1%	0.1%
01LD11	0.3%	0.1%	19RD11	0.2%	0.2%
01LD12	9.4%	9.1%	19RD12	0.1%	0.1%
			19RD13	8.3%	13.6%
			19RD14	12.0%	9.2%
Runway 1R			Runway 19L		
01RD01	0.5%	1.1%	19LD01	1.6%	2.4%
01RD02	0.9%	1.3%	19LD02	3.1%	5.0%
01RD03	0.4%	0.4%	19LD03	1.3%	1.7%
01RD04	0.3%	0.4%	19LD04	0.8%	0.9%
01RD05	0.7%	0.1%	19LD05	0.7%	1.8%

**TABLE B-2.15  
DEPARTURE FLIGHT TRACK USE – 2021 EXISTING CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
01RD06	0.6%	0.2%	19LD06	0.4%	1.3%
01RD07	3.2%	1.2%	19LD07	0.4%	0.4%
01RD08	0.5%	0.8%	19LD08	0.4%	0.2%
01RD09	0.8%	1.3%	19LD09	41.2%	33.2%
01RD10	62.7%	61.4%	19LD10	5.8%	1.8%
01RD11	2.5%	0.5%	19LD11	0.8%	0.7%
01RD12	0.6%	0.7%	19LD12	6.7%	18.0%
01RD13	0.6%	0.3%	19LD13	5.3%	4.4%
01RD14	1.2%	3.6%	19LD14	1.9%	1.9%
01RD15	1.6%	2.2%	19LD15	0.2%	0.2%
01RD16	6.1%	7.1%	19LD16	11.1%	6.0%
01RD17	1.7%	2.3%	19LD17	11.2%	14.4%
01RD18	1.6%	1.7%	19LD18	7.1%	5.8%
01RD19	1.3%	5.1%			
01RD20	0.1%	0.1%			
01RD21	0.1%	0.0%			
01RD22	0.2%	0.1%			
01RD23	11.8%	7.9%			

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

**TABLE B-2.16  
ARRIVAL FLIGHT TRACK USE – 2026 FUTURE CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
<b>Runway 10</b>			<b>Runway 28</b>		
10A01	9.2%	6.7%	28A01	8.5%	1.8%
10A02	16.7%	3.4%	28A02	23.8%	19.9%
10A03	11.5%	40.3%	28A03	8.3%	3.8%
10A04	9.8%	2.1%	28A04	0.4%	0.3%
10A05	26.2%	2.2%	28A05	2.0%	0.3%
10A06	0.0%	16.8%	28A06	3.5%	3.1%
10A07	26.7%	28.6%	28A07	1.4%	1.7%
			28A08	13.4%	44.8%
			28A09	4.3%	1.5%
			28A10	34.5%	22.8%
<b>Runway 1L</b>			<b>Runway 19R</b>		
01LA01	0.2%	0.2%	19RA01	0.1%	0.1%
01LA02	0.3%	0.2%	19RA02	0.3%	0.1%
01LA03	0.1%	0.9%	19RA03	1.2%	0.7%
01LA04	0.0%	0.0%	19RA04	0.1%	3.0%
01LA05	0.2%	0.2%	19RA05	0.3%	0.2%
01LA06	40.7%	29.5%	19RA06	39.9%	33.2%
01LA07	0.1%	0.3%	19RA07	0.2%	0.1%
01LA08	2.4%	2.4%	19RA08	3.9%	2.5%
01LA09	35.4%	40.2%	19RA09	1.8%	0.8%
01LA10	1.0%	0.9%	19RA10	0.4%	0.2%
01LA11	0.1%	0.2%	19RA11	33.1%	41.4%
01LA12	0.1%	0.0%	19RA12	0.8%	0.3%
01LA13	9.4%	9.4%	19RA13	0.2%	0.1%
01LA14	0.3%	0.2%	19RA14	10.0%	5.7%
01LA15	0.0%	0.0%	19RA15	3.4%	3.0%
01LA16	6.7%	4.1%	19RA16	4.3%	8.6%
01LA17	2.7%	11.2%			
01LA18	0.2%	0.2%			
<b>Runway 1R</b>			<b>Runway 19L</b>		
01RA01	0.9%	0.1%	19LA01	0.3%	0.0%
01RA02	0.4%	0.2%	19LA02	0.7%	0.2%
01RA03	1.0%	1.0%	19LA03	3.9%	4.1%
01RA04	0.7%	1.0%	19LA04	0.3%	0.1%
01RA05	0.1%	0.1%	19LA05	0.4%	0.1%
01RA06	23.9%	23.9%	19LA06	0.5%	0.9%
01RA07	0.5%	0.0%	19LA07	36.1%	30.8%
01RA08	0.8%	0.4%	19LA08	0.4%	0.3%

**TABLE B-2.16**  
**ARRIVAL FLIGHT TRACK USE – 2026 FUTURE CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
01RA09	3.8%	3.0%	19LA09	26.5%	19.3%
01RA10	1.4%	1.0%	19LA10	4.6%	14.2%
01RA11	3.1%	3.9%	19LA11	1.5%	0.7%
01RA12	22.4%	26.2%	19LA12	2.2%	1.4%
01RA13	0.5%	0.3%	19LA13	4.6%	3.3%
01RA14	1.1%	6.8%	19LA14	0.5%	0.3%
01RA15	34.3%	23.7%	19LA15	9.0%	7.9%
01RA16	3.2%	2.2%	19LA16	2.8%	3.0%
01RA17	1.9%	6.3%	19LA17	5.7%	13.4%

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

TABLE B-2.17 DEPARTURE FLIGHT TRACK USE – 2026 FUTURE CONDITIONS					
Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
Runway 10			Runway 28		
10D01	10.3%	6.1%	28D01	3.0%	3.1%
10D02	11.5%	3.4%	28D02	0.9%	2.1%
10D03	3.3%	0.4%	28D03	0.9%	1.8%
10D04	6.3%	2.6%	28D04	2.2%	0.0%
10D05	3.1%	1.0%	28D05	13.1%	6.8%
10D06	6.6%	1.7%	28D06	10.2%	17.3%
10D07	1.2%	0.0%	28D07	19.3%	21.7%
10D08	7.1%	5.1%	28D08	10.1%	11.1%
10D09	8.1%	5.0%	28D09	2.3%	2.2%
10D10	6.0%	3.0%	28D10	1.1%	0.0%
10D11	2.6%	1.1%	28D11	2.7%	1.4%
10D12	9.4%	6.5%	28D12	5.2%	12.9%
10D13	22.4%	64.2%	28D13	4.9%	5.1%
10D14	1.1%	0.0%	28D14	16.7%	9.7%
10D15	1.0%	0.0%	28D15	0.9%	0.0%
			28D16	2.8%	3.5%
			28D17	3.7%	1.4%
Runway 1L			Runway 19R		
01LD01	2.4%	5.1%	19RD01	2.0%	1.1%
01LD02	0.3%	0.6%	19RD02	0.4%	2.4%
01LD03	0.2%	0.1%	19RD03	0.1%	0.6%
01LD04	75.9%	71.7%	19RD04	0.9%	2.1%
01LD05	1.4%	0.6%	19RD05	0.8%	0.8%
01LD06	0.3%	0.2%	19RD06	0.2%	0.2%
01LD07	0.2%	0.1%	19RD07	57.8%	46.2%
01LD08	0.9%	3.8%	19RD08	16.6%	22.4%
01LD09	1.4%	1.1%	19RD09	0.4%	1.3%
01LD10	7.1%	7.5%	19RD10	0.1%	0.1%
01LD11	0.3%	0.1%	19RD11	0.2%	0.2%
01LD12	9.5%	9.2%	19RD12	0.1%	0.1%
			19RD13	8.2%	13.4%
			19RD14	12.2%	9.1%
Runway 1R			Runway 19L		
01RD01	0.5%	0.8%	19LD01	1.5%	2.3%
01RD02	0.9%	1.1%	19LD02	3.1%	4.9%
01RD03	0.4%	0.3%	19LD03	1.3%	1.6%
01RD04	0.3%	0.3%	19LD04	0.8%	0.8%

**TABLE B-2.17**  
**DEPARTURE FLIGHT TRACK USE – 2026 FUTURE CONDITIONS**

Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
01RD05	0.6%	0.1%	19LD05	0.7%	1.7%
01RD06	0.6%	0.2%	19LD06	0.4%	1.3%
01RD07	3.3%	0.9%	19LD07	0.4%	0.4%
01RD08	0.5%	0.6%	19LD08	0.4%	0.2%
01RD09	0.8%	1.3%	19LD09	41.0%	34.1%
01RD10	62.7%	64.7%	19LD10	6.0%	1.7%
01RD11	2.6%	0.3%	19LD11	0.8%	0.7%
01RD12	0.6%	0.6%	19LD12	6.7%	18.3%
01RD13	0.6%	0.2%	19LD13	5.4%	4.1%
01RD14	1.2%	2.6%	19LD14	1.8%	1.8%
01RD15	1.7%	1.6%	19LD15	0.2%	0.2%
01RD16	5.9%	7.2%	19LD16	11.4%	5.8%
01RD17	1.6%	2.2%	19LD17	10.9%	14.1%
01RD18	1.5%	1.3%	19LD18	7.1%	5.9%
01RD19	1.2%	4.9%			
01RD20	0.1%	0.1%			
01RD21	0.1%	0.0%			
01RD22	0.2%	0.1%			
01RD23	11.9%	8.5%			

**NOTES:** Total values may not add up due to rounding. Does not include helicopter operations.

**SOURCE:** Environmental Science Associates, 2021.

TABLE B-2.18 HELICOPTER ARRIVAL FLIGHT TRACK USE – 2021 EXISTING AND 2026 FUTURE CONDITIONS					
Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
General Aviation			Law Enforcement		
H1A01	5.0%	5.0%	H2A01	31.9%	5.9%
H1A02	16.6%	16.6%	H2A02	17.0%	7.8%
H1A03	23.5%	23.5%	H2A03	51.1%	86.3%
H1A04	55.0%	55.0%			

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.

TABLE B-2.19 HELICOPTER DEPARTURE FLIGHT TRACK USE – 2021 EXISTING AND 2026 FUTURE CONDITIONS					
Flight Track	Daytime	Nighttime	Flight Track	Daytime	Nighttime
General Aviation			Law Enforcement		
H1D01	2.5%	8.6%	H2D01	31.9%	31.9%
H1D02	10.0%	3.9%	H2D02	17.0%	17.0%
H1D03	29.4%	28.1%	H2D03	51.1%	51.1%
H1D04	58.1%	59.4%			

**NOTES:** Total values may not add up due to rounding.

**SOURCE:** Environmental Science Associates, 2021.



**TABLE B-2.20**  
**GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU001	Airbus A319-100 Series	7CM048	NONE	0.005	Day	120	22000
RU002	Airbus A319-100 Series	7CM048	NONE	0.047	Night	120	22000
RU003	Airbus A320-200 Series	3IA007	NONE	0.058	Day	120	26500
RU004	Airbus A320-200 Series	3IA007	NONE	0.041	Night	120	26500
RU005	Airbus A321-200 Series	1IA005	NONE	0.005	Night	120	30000
RU006	Boeing 717-200 Series	4BR002	NONE	0.003	Night	120	18000
RU007	Boeing 737-300 Series	1CM007	NONE	0.011	Day	120	20000
RU008	Boeing 737-400 Series	1CM007	NONE	0.019	Day	120	23500
RU009	Boeing 737-700 Series	3CM030	NONE	0.008	Day	120	24000
RU010	Boeing 737-700 Series	3CM030	NONE	0.003	Night	120	24000
RU011	Boeing 737-800 Series	3CM034	NONE	0.044	Day	120	26300
RU012	Boeing 737-800 Series	3CM034	NONE	0.121	Night	120	26300
RU013	Boeing 757-200 Series	4PW073	NONE	0.005	Day	120	38300
RU014	Boeing 757-200 Series	4PW073	NONE	0.011	Night	120	38300
RU015	Boeing 767-200 Series	1GE026	NONE	0.003	Day	120	48000
RU016	Boeing 767-200 Series	1GE026	NONE	0.005	Night	120	48000
RU017	Boeing 767-300 Series	1RR011	NONE	0.011	Day	120	60000
RU018	Boeing 767-300 Series	1RR011	NONE	0.005	Night	120	60000
RU019	Bombardier Challenger 600	01P05GE189	NONE	0.005	Day	120	7500
RU020	Bombardier Learjet 35	1AS001	NONE	0.049	Day	120	3500
RU021	Bombardier Learjet 35	1AS001	NONE	0.003	Night	120	3500
RU022	Cessna 750 Citation X	6AL022	NONE	0.008	Day	120	6407
RU023	Dassault Falcon 900-EX	1AS002	NONE	0.027	Day	120	5000
RU024	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.636	Day	120	100
RU025	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.055	Night	120	100

**TABLE B-2.20  
GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU026	Gulfstream IV-SP	1RR019	NONE	0.016	Day	120	13850
RU027	Mitsubishi MU-300 Diamond	1PW037	NONE	0.047	Day	120	2500
RU028	Raytheon Beech 1900-C	PT67B	NONE	0.008	Day	120	3367
RU029	Raytheon Beech 1900-C	PT67B	NONE	0.003	Night	120	3367
RU030	Airbus A319-100 Series	7CM048	NONE	0.003	Day	780	2200
RU031	Airbus A319-100 Series	7CM048	NONE	0.003	Day	1680	2200
RU032	Airbus A319-100 Series	7CM048	NONE	0.003	Night	180	2200
RU033	Airbus A319-100 Series	7CM048	NONE	0.003	Night	330	2200
RU034	Airbus A319-100 Series	7CM048	NONE	0.005	Night	480	2200
RU035	Airbus A319-100 Series	7CM048	NONE	0.022	Night	780	2200
RU036	Airbus A319-100 Series	7CM048	NONE	0.003	Night	930	2200
RU037	Airbus A319-100 Series	7CM048	NONE	0.003	Night	1005	2200
RU038	Airbus A319-100 Series	7CM048	NONE	0.005	Night	1155	2200
RU039	Airbus A319-100 Series	7CM048	NONE	0.003	Night	1230	2200
RU040	Airbus A320-200 Series	3IA007	NONE	0.003	Day	330	2650
RU041	Airbus A320-200 Series	3IA007	NONE	0.003	Day	555	2650
RU042	Airbus A320-200 Series	3IA007	NONE	0.038	Day	780	2650
RU043	Airbus A320-200 Series	3IA007	NONE	0.003	Day	930	2650
RU044	Airbus A320-200 Series	3IA007	NONE	0.005	Day	1005	2650
RU045	Airbus A320-200 Series	3IA007	NONE	0.003	Day	1230	2650
RU046	Airbus A320-200 Series	3IA007	NONE	0.003	Day	1680	2650
RU047	Airbus A320-200 Series	3IA007	NONE	0.003	Night	180	2650
RU048	Airbus A320-200 Series	3IA007	NONE	0.003	Night	330	2650
RU049	Airbus A320-200 Series	3IA007	NONE	0.022	Night	780	2650
RU050	Airbus A320-200 Series	3IA007	NONE	0.003	Night	930	2650
RU051	Airbus A320-200 Series	3IA007	NONE	0.008	Night	1005	2650

**TABLE B-2.20  
GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU052	Airbus A320-200 Series	3IA007	NONE	0.003	Night	1155	2650
RU053	Airbus A321-200 Series	1IA005	NONE	0.005	Night	780	3000
RU054	Boeing 717-200 Series	4BR002	NONE	0.003	Night	555	1800
RU055	Boeing 737-300 Series	1CM007	NONE	0.005	Day	780	2000
RU056	Boeing 737-300 Series	1CM007	NONE	0.005	Day	1680	2000
RU057	Boeing 737-400 Series	1CM007	NONE	0.019	Day	1680	2350
RU058	Boeing 737-700 Series	3CM030	NONE	0.003	Day	780	2400
RU059	Boeing 737-700 Series	3CM030	NONE	0.005	Day	1680	2400
RU060	Boeing 737-700 Series	3CM030	NONE	0.003	Night	780	2400
RU061	Boeing 737-800 Series	3CM034	NONE	0.003	Day	555	2630
RU062	Boeing 737-800 Series	3CM034	NONE	0.014	Day	780	2630
RU063	Boeing 737-800 Series	3CM034	NONE	0.003	Day	930	2630
RU064	Boeing 737-800 Series	3CM034	NONE	0.025	Day	1680	2630
RU065	Boeing 737-800 Series	3CM034	NONE	0.003	Night	180	2630
RU066	Boeing 737-800 Series	3CM034	NONE	0.003	Night	255	2630
RU067	Boeing 737-800 Series	3CM034	NONE	0.008	Night	330	2630
RU068	Boeing 737-800 Series	3CM034	NONE	0.003	Night	555	2630
RU069	Boeing 737-800 Series	3CM034	NONE	0.003	Night	630	2630
RU070	Boeing 737-800 Series	3CM034	NONE	0.003	Night	705	2630
RU071	Boeing 737-800 Series	3CM034	NONE	0.060	Night	780	2630
RU072	Boeing 737-800 Series	3CM034	NONE	0.005	Night	855	2630
RU073	Boeing 737-800 Series	3CM034	NONE	0.003	Night	930	2630
RU074	Boeing 737-800 Series	3CM034	NONE	0.003	Night	1005	2630
RU075	Boeing 737-800 Series	3CM034	NONE	0.008	Night	1080	2630
RU076	Boeing 737-800 Series	3CM034	NONE	0.008	Night	1155	2630
RU077	Boeing 737-800 Series	3CM034	NONE	0.003	Night	1230	2630

**TABLE B-2.20  
GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU078	Boeing 737-800 Series	3CM034	NONE	0.005	Night	1305	2630
RU079	Boeing 737-800 Series	3CM034	NONE	0.003	Night	1680	2630
RU080	Boeing 757-200 Series	4PW073	NONE	0.003	Day	555	3830
RU081	Boeing 757-200 Series	4PW073	NONE	0.003	Day	930	3830
RU082	Boeing 757-200 Series	4PW073	NONE	0.008	Night	780	3830
RU083	Boeing 757-200 Series	4PW073	NONE	0.003	Night	1155	3830
RU084	Boeing 767-200 Series	1GE026	NONE	0.003	Day	855	4800
RU085	Boeing 767-200 Series	1GE026	NONE	0.003	Night	765	4800
RU086	Boeing 767-200 Series	1GE026	NONE	0.003	Night	780	4800
RU087	Boeing 767-300 Series	1RR011	NONE	0.003	Day	780	6000
RU088	Boeing 767-300 Series	1RR011	NONE	0.003	Day	930	6000
RU089	Boeing 767-300 Series	1RR011	NONE	0.003	Day	1230	6000
RU090	Boeing 767-300 Series	1RR011	NONE	0.003	Day	1455	6000
RU091	Boeing 767-300 Series	1RR011	NONE	0.003	Night	480	6000
RU092	Boeing 767-300 Series	1RR011	NONE	0.003	Night	780	6000
RU093	Bombardier Challenger 600	01P05GE189	NONE	0.003	Day	555	750
RU094	Bombardier Challenger 600	01P05GE189	NONE	0.003	Day	780	750
RU095	Bombardier Learjet 35	1AS001	NONE	0.003	Day	330	350
RU096	Bombardier Learjet 35	1AS001	NONE	0.036	Day	780	350
RU097	Bombardier Learjet 35	1AS001	NONE	0.003	Day	855	350
RU098	Bombardier Learjet 35	1AS001	NONE	0.008	Day	930	350
RU099	Bombardier Learjet 35	1AS001	NONE	0.003	Night	555	350
RU100	Cessna 750 Citation X	6AL022	NONE	0.003	Day	330	640.7
RU101	Cessna 750 Citation X	6AL022	NONE	0.003	Day	1005	640.7
RU102	Cessna 750 Citation X	6AL022	NONE	0.003	Day	1155	640.7
RU103	Dassault Falcon 900-EX	1AS002	NONE	0.003	Day	180	500

**TABLE B-2.20  
GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU104	Dassault Falcon 900-EX	1AS002	NONE	0.003	Day	375	500
RU105	Dassault Falcon 900-EX	1AS002	NONE	0.008	Day	555	500
RU106	Dassault Falcon 900-EX	1AS002	NONE	0.014	Day	780	500
RU107	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	180	10
RU108	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.011	Day	330	10
RU109	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.016	Day	555	10
RU110	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	630	10
RU111	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.384	Day	780	10
RU112	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	795	10
RU113	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	840	10
RU114	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.014	Day	855	10
RU115	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.019	Day	930	10
RU116	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.030	Day	1005	10
RU117	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	1020	10
RU118	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.019	Day	1080	10
RU119	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.005	Day	1155	10
RU120	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.030	Day	1230	10
RU121	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	1245	10
RU122	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.005	Day	1305	10
RU123	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.005	Day	1455	10
RU124	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Day	1530	10
RU125	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.077	Day	1680	10
RU126	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.030	Night	780	10
RU127	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Night	795	10
RU128	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Night	855	10
RU129	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.011	Night	1005	10

**TABLE B-2.20  
GROUND RUN-UP OPERATIONS – 2021 EXISTING AND 2026 FUTURE CONDITIONS**

Runup ID	AEDT Aircraft Type	AEDT Engine Code	AEDT Engine Mod Code	Ops	Time	Duration (Seconds)	Thrust (pound or %)
RU130	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Night	1155	10
RU131	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Night	1230	10
RU132	DeHavilland DHC-6-300 Twin Otter	PT6A20	NONE	0.003	Night	1680	10
RU133	Gulfstream IV-SP	1RR019	NONE	0.008	Day	780	1385
RU134	Gulfstream IV-SP	1RR019	NONE	0.003	Day	855	1385
RU135	Gulfstream IV-SP	1RR019	NONE	0.003	Day	930	1385
RU136	Gulfstream IV-SP	1RR019	NONE	0.003	Day	1155	1385
RU137	Mitsubishi MU-300 Diamond	1PW037	NONE	0.003	Day	180	250
RU138	Mitsubishi MU-300 Diamond	1PW037	NONE	0.036	Day	780	250
RU139	Mitsubishi MU-300 Diamond	1PW037	NONE	0.003	Day	855	250
RU140	Mitsubishi MU-300 Diamond	1PW037	NONE	0.005	Day	1680	250
RU141	Raytheon Beech 1900-C	PT67B	NONE	0.008	Day	780	336.7
RU142	Raytheon Beech 1900-C	PT67B	NONE	0.003	Night	1455	336.7

**NOTES:** Thrust values of 100 or 10 are percentages, while the remainder are in pounds. All engine run-ups were conducted at the ground run-up enclosure. Daytime is between 7:00 A.M. to 10:00 P.M. Nighttime is 10:00 P.M. to 7 A.M. All aircraft headings are 180 degrees.

**SOURCE:** Environmental Science Associates, 2021.