

Noise Model Calculation Data

Jacqueline Cochran Regional Airport

AIRCRAFT MIX (Estimated 2002 Activity Level)			
<i>Aircraft Type</i>	<i>Total Operations</i>		
	<i>Annual</i>	<i>Average Day</i>	<i>Percentage</i>
Single-Engine, Propeller, Fixed Pitch	9,750	26.7	15.0%
Single-Engine, Propeller, Variable Pitch	13,000	35.6	20.0%
Twin-Engine, Propeller, Piston	9,750	26.7	15.0%
Twin-Engine, Turboprop	13,975	38.3	21.5%
Small Business Jet (e.g., Citation)	7,800	21.4	12.0%
Medium Business Jet (e.g., Citation X)	6,500	17.8	10.0%
Large Business Jet (e.g., Gulfstream V)	2,600	7.1	4.0%
Corporate/Charter Jet (e.g., Boeing 737-800)	325	.9	0.5%
Military (Dash 6)	975	2.7	1.5%
Helicopter (e.g., Bell 212)	325	.9	0.5%
Total	65,000	178.1	100.0%

AIRCRAFT MIX (Forecast 2022 Activity Level)			
<i>Aircraft Type</i>	<i>Total Operations</i>		
	<i>Annual</i>	<i>Average Day</i>	<i>Percentage</i>
Single-Engine, Propeller, Fixed Pitch	11,550	31.6	10.5%
Single-Engine, Propeller, Variable Pitch	19,800	54.3	18.0%
Twin-Engine, Propeller, Piston	13,200	36.2	12.0%
Twin-Engine, Turboprop	25,300	69.3	23.0%
Small Business Jet (e.g., Citation)	15,400	42.2	14.0%
Medium Business Jet (e.g., Citation X)	13,200	36.2	12.0%
Large Business Jet (e.g., Gulfstream V)	6,050	16.6	5.5%
Corporate/Charter Jet (e.g., Boeing 737-800)	1,650	4.5	1.5%
Military (Dash 6)	1,650	4.5	1.5%
Helicopter (e.g., Bell 212)	2,200	6.0	2.0%
Total	110,000	301.4	100.0%

TIME OF DAY (Estimated 2002 and Forecast 2022)				
<i>Aircraft Type</i>		<i>Percentage of Operations by Aircraft Type</i>		
		<i>Day 7:00 a.m. 7:00 p.m.</i>	<i>Evening 7:00 p.m. 10:00 p.m.</i>	<i>Night 10:00 p.m. 7:00 a.m.</i>
Single-Engine, Propeller, Fixed Pitch	Takeoff	95.0	3.0	2.0
	Landing	95.0	3.0	2.0
Single-Engine, Propeller, Variable Pitch	Takeoff	95.0	3.0	2.0
	Landing	95.0	3.0	2.0
Twin-Engine, Propeller, Piston	Takeoff	96.0	2.5	1.5
	Landing	96.0	2.5	1.5
Twin-Engine, Turboprop	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5
Small Business Jet (e.g., Citation)	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5
Medium Business Jet (e.g., Citation X)	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5
Large Business Jet (e.g., Gulfstream V)	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5
Corporate/Charter Jet (e.g., Boeing 737-800)	Takeoff	90.0	5.0	5.0
	Landing	90.0	5.0	5.0
Military (Dash 6)	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5
Helicopter (e.g., Bell 212)	Takeoff	98.0	1.5	0.5
	Landing	98.0	1.5	0.5

RUNWAY UTILIZATION (Estimated 2002 and Forecast 2022)									
<i>Aircraft Type</i>		<i>Percentage of Takeoffs</i>				<i>Percentage of Landings</i>			
		<i>Rwy 12</i>	<i>Rwy 17</i>	<i>Rwy 30</i>	<i>Rwy 35</i>	<i>Rwy 12</i>	<i>Rwy 17</i>	<i>Rwy 30</i>	<i>Rwy 35</i>
Single-Engine, Fixed and Variable Pitch and Twin-Engine, Piston	Day	3.0	20.0	7.0	70.0	3.0	20.0	7.0	70.0
	Evening	3.0	20.0	7.0	70.0	3.0	20.0	7.0	70.0
	Night	3.0	20.0	7.0	70.0	3.0	20.0	7.0	70.0
Twin-Engine, Turboprop; Military; and Helicopter	Day	1.0	22.0	3.0	74.0	1.0	22.0	3.0	74.0
	Evening	1.0	22.0	3.0	74.0	1.0	22.0	3.0	74.0
	Night	1.0	22.0	3.0	74.0	1.0	22.0	3.0	74.0
Small Jet	Day	--	10.0	4.0	86.0	--	10.0	4.0	86.0
	Evening	--	10.0	4.0	86.0	--	10.0	4.0	86.0
	Night	--	10.0	4.0	86.0	--	10.0	4.0	86.0
All Other Jet	Day	--	5.0	--	95.0	--	5.0	--	95.0
	Evening	--	5.0	--	95.0	--	5.0	--	95.0
	Night	--	5.0	--	95.0	--	5.0	--	95.0

FLIGHT TRACKS - LANDINGS (Estimated 2002 and Forecast 2022)						
<i>Aircraft Type</i>	<i>Percentage of Track Usage by Runway</i>					
	<i>Runway 12</i>	<i>Runway 17</i>	<i>Runway 30</i>	<i>Runway 35</i>		
	<i>Straight In</i>	<i>Straight In</i>	<i>Straight In</i>	<i>Straight In</i>	<i>Right Traffic</i>	<i>Left Traffic</i>
Single-Engine, Fixed and Variable Pitch and Twin-Engine, Piston	100.0	100.0	100.0	30.0	10.0	60.0
Twin-Engine, Turboprop, Military, and Helicopter	100.0	100.0	100.0	30.0	10.0	60.0
Small Jet	100.0	100.0	100.0	30.0	10.0	60.0
All Other Jet	—	100.0	—	100.0	—	—

FLIGHT TRACKS - TAKEOFFS (Estimated 2002 and Forecast 2022)				
<i>Aircraft Type</i>	<i>Percentage of Track Usage by Runway</i>			
	<i>Runway 12</i>	<i>Runway 17</i>	<i>Runway 30</i>	<i>Runway 35</i>
	<i>Straight Out</i>	<i>Straight Out</i>	<i>Straight Out</i>	<i>Straight Out</i>
Single-Engine, Fixed and Variable Pitch and Twin-Engine, Piston	100.0	100.0	100.0	100.0
Twin-Engine, Turboprop, Military, and Helicopter	100.0	100.0	100.0	100.0
Small Jet	100.0	100.0	100.0	100.0
All Other Jet	—	100.0	—	100.0