

Noise Model Calculation Data

Willows-Glenn County Airport

AIRCRAFT MIX (Estimated 2005 Activity Level)			
<i>Aircraft Type</i>	Total Operations		
	<i>Annual</i>	<i>Average Day</i>	<i>Percentage</i>
Single-Engine, Propeller, Fixed Pitch	7,100	19.5	24.1%
Single-Engine, Propeller, Variable Pitch	21,000	57.5	71.2%
Twin-Engine, Propeller, Piston	300	0.8	1.0%
Twin-Engine, Turboprop	250	0.7	0.8%
Small Business Jet (e.g., Lear)	350	1.0	1.2%
Helicopter	500	1.4	1.7%
Total	29,500	81	100%

AIRCRAFT MIX (Forecast 2025 Activity Level)			
<i>Aircraft Type</i>	Total Operations		
	<i>Annual</i>	<i>Average Day</i>	<i>Percentage</i>
Single-Engine, Propeller, Fixed Pitch	11,700	32.1	32.5%
Single-Engine, Propeller, Variable Pitch	21,500	58.9	59.7%
Twin-Engine, Propeller, Piston	500	1.4	1.4%
Twin-Engine, Turboprop	450	1.2	1.3%
Small Business Jet (e.g., Lear)	1,300	3.6	3.6%
Helicopter	550	1.5	1.5%
Total	36,000	99	100%

TIME OF DAY (Estimated 2005 and 2025)				
<i>Aircraft Type</i>		Percentage of Operations by Aircraft Type		
		<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	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0
Single-Engine, Propeller, Variable Pitch	Takeoff	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0
Twin-Engine, Propeller, Piston	Takeoff	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0
Twin-Engine, Turboprop	Takeoff	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0
Small Business Jet (e.g., Lear)	Takeoff	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0
Helicopter	Takeoff	80.0	2.0	18.0
	Landing	80.0	2.0	18.0
	Touch-and-go	80.0	2.0	18.0

RUNWAY UTILIZATION (Runway 16-34) (Estimated 2005 and 2025)						
<i>Aircraft Type</i>	Percentage of Takeoffs		Percentage of Landings		Percentage of Touch-and-go	
	<i>Runway 16</i>	<i>Runway 34</i>	<i>Runway 16</i>	<i>Runway 34</i>	<i>Runway 16</i>	<i>Runway 34</i>
Single-Engine, Propeller, Fixed Pitch	20.0	70.0	5.0	70.0	5.0	70.0
Single-Engine, Propeller, Variable Pitch	20.0	70.0	5.0	70.0	5.0	70.0
Twin-Engine, Propeller, Piston	70.0	5.0	5.0	20.0	5.0	70.0
Twin-Engine, Turboprop	90.0	10.0	10.0	90.0	-	-
Small Business Jet (e.g., Lear)	90.0	10.0	10.0	90.0	-	-
Helicopter	100.0	0.0	100.0	0.0	-	-

RUNWAY UTILIZATION (Runway 13-31) (Estimated 2005 and 2025)						
<i>Aircraft Type</i>	Percentage of Takeoffs		Percentage of Landings		Percentage of Touch-and-go	
	<i>Runway 13</i>	<i>Runway 31</i>	<i>Runway 13</i>	<i>Runway 31</i>	<i>Runway 13</i>	<i>Runway 31</i>
Single-Engine, Propeller, Fixed Pitch	5.0	5.0	5.0	20.0	5.0	20.0
Single-Engine, Propeller, Variable Pitch	5.0	5.0	5.0	20.0	5.0	20.0
Twin-Engine, Propeller, Piston	20.0	5.0	5.0	70.0	5.0	20.0
Twin-Engine, Turboprop	-	-	-	-	-	-
Small Business Jet (e.g., Lear)	-	-	-	-	-	-
Helicopter	-	-	-	-	-	-

FLIGHT TRACKS (Estimated 2005 and 2025)						
<i>Aircraft Type</i>	Percentage of Track Usage by Runway					
	<i>Takeoffs</i>		<i>Landings</i>		<i>Touch-and-go</i>	
	<i>Runway 16</i>	<i>Runway 34</i>	<i>Runway 16</i>	<i>Runway 34</i>	<i>Runway 16</i>	<i>Runway 34</i>
	<i>Straight Out</i>	<i>Straight Out</i>	<i>Straight In</i>	<i>Straight In</i>	<i>Left Turn</i>	<i>Left Turn</i>
All Aircraft	100.0	100.0	100.0	100.0	100.0	100.0