

<h1>Noise Impact Summary: December 2025</h1>
<i>Official report for community transparency and policy review.</i>

Key Monthly Metrics	
Metric Category	Recorded Observation
Monthly Event Count	10,283 airplane noise events detected.
Night Observation	11:00 PM to 7:00 AM analysis window.
Night Limit Violations	1,144 events above the 45 dB threshold.
Frequency of Impact	Exceedances occurred on 30 of 31 nights.
Density of Noise	Median gap between events is 1.9 minutes.
Night Intensity	Median: 70.2 dB   Max: 95.8 dB.

Sustained Noise Sequences (Event Trains)		
Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	7h 55m 05s (246 events)	1h 01m 13s (33 events)
Events ≤ 10 min apart	16h 31m 38s (428 events)	3h 01m 03s (63 events)
Events ≤ 15 min apart	17h 49m 45s (511 events)	3h 01m 03s (63 events)

Scientific Impact Transparency	
Loudness Perception	A 75 dB event is perceived as 300% LOUDER than daytime limits (55dB) and 700% LOUDER than nighttime limits (45dB).
Physical Sound Energy	Each 75 dB event contains 1,000 TIMES more physical sound energy than the nighttime safety limit.
Sleep Protection	The consistency of nightly exceedances indicates that there is currently no protected sleep window for residents.