

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

Key Monthly Metrics	
Metric Category	Recorded Observation
Monthly Event Count	7,374 airplane noise events detected.
Night Observation	11:00 PM to 7:00 AM analysis window.
Night Limit Violations	776 events above the 45 dB threshold.
Frequency of Impact	Exceedances occurred on 28 of 31 nights.
Density of Noise	Median gap between events is 1.9 minutes.
Night Intensity	Median: 71.3 dB Max: 89.0 dB.

Sustained Noise Sequences (Event Trains)		
Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	4h 48m 41s (164 events)	0h 27m 39s (24 events)
Events ≤ 10 min apart	13h 31m 48s (386 events)	1h 54m 08s (40 events)
Events ≤ 15 min apart	15h 38m 39s (426 events)	1h 54m 08s (40 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.