

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

Key Monthly Metrics	
Metric Category	Recorded Observation
Monthly Event Count	9,491 airplane noise events detected.
Night Observation	11:00 PM to 7:00 AM analysis window.
Night Limit Violations	1,339 events above the 45 dB threshold.
Frequency of Impact	Exceedances occurred on 29 of 31 nights.
Density of Noise	Median gap between events is 1.9 minutes.
Night Intensity	Median: 71.0 dB Max: 92.5 dB.

Sustained Noise Sequences (Event Trains)		
Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	4h 16m 33s (144 events)	1h 26m 38s (50 events)
Events ≤ 10 min apart	11h 46m 45s (342 events)	3h 15m 30s (75 events)
Events ≤ 15 min apart	19h 11m 34s (472 events)	3h 15m 30s (75 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.