

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

Key Monthly Metrics	
Metric Category	Recorded Observation
Monthly Event Count	7,772 airplane noise events detected.
Night Observation	11:00 PM to 7:00 AM analysis window.
Night Limit Violations	905 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: 70.9 dB   Max: 85.6 dB.

Sustained Noise Sequences (Event Trains)		
Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	7h 38m 50s (260 events)	0h 24m 28s (24 events)
Events ≤ 10 min apart	14h 42m 21s (380 events)	1h 36m 29s (33 events)
Events ≤ 15 min apart	17h 54m 41s (481 events)	2h 11m 02s (39 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.