

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

Key Monthly Metrics	
Metric Category	Recorded Observation
Monthly Event Count	8,242 airplane noise events detected.
Night Observation	11:00 PM to 7:00 AM analysis window.
Night Limit Violations	889 events above the 45 dB threshold.
Frequency of Impact	Exceedances occurred on 27 of 30 nights.
Density of Noise	Median gap between events is 1.8 minutes.
Night Intensity	Median: 70.3 dB   Max: 87.7 dB.

Sustained Noise Sequences (Event Trains)		
Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	7h 15m 04s (235 events)	1h 55m 26s (59 events)
Events ≤ 10 min apart	13h 16m 04s (389 events)	1h 55m 26s (59 events)
Events ≤ 15 min apart	17h 15m 16s (451 events)	1h 55m 26s (59 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.