

Noise Impact Summary: March 2026

Acacia Park

Official report for community transparency and policy review.

Key Monthly Metrics

Metric Category	Recorded Observation
Monthly Event Count	8,158 airplane noise events detected (day + night).
Day Event Count	6,984 day events detected.
Night Event Count	1,174 night-window events detected (11:00 PM–7:00 AM).
Missing dB Values	1,662 events in this export have no dB value reported.
Night Observation	11:00 PM to 7:00 AM analysis window.
Day Limit Violations	5,473 day events above the 55 dB threshold (where dB reported).
Night Limit Violations	1,023 night-window events above the 45 dB threshold (where dB reported).
Frequency of Impact	Exceedances occurred on 31 of 31 nights (where dB reported).
Nighttime Median Gap	2.2 minutes (median gap between night-window events).
Daytime Median Gap	2.0 minutes (median gap between daytime events).
Night Intensity	Median: 70.6 dB Max: 89.1 dB (where dB reported).

Sustained Noise Sequences (Event Trains)

Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	4h 0m 45s (132 events)	1h 10m 14s (32 events)
Events ≤ 10 min apart	15h 56m 35s (399 events)	2h 16m 34s (48 events)
Events ≤ 15 min apart	18h 55m 41s (367 events)	3h 14m 58s (44 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.