

Noise Impact Summary: July 2026

--- Acacia Park

Official report for community transparency and policy review.

Key Monthly Metrics

Metric Category	Recorded Observation
Monthly Event Count	10,112 airplane noise events detected (day + night).
Day Event Count	8,693 day events detected.
Night Event Count	1,419 night-window events detected (11:00 PM–7:00 AM).
Missing dB Values	172 events in this export have no dB value reported.
Night Observation	11:00 PM to 7:00 AM analysis window.
Day Limit Violations	8,538 day events above the 55 dB threshold (where dB reported).
Night Limit Violations	1,402 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	1.9 minutes (median gap between daytime events).
Night Intensity	Median: 70.6 dB Max: 96.6 dB (where dB reported).

Sustained Noise Sequences (Event Trains)

Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	7h 1m 32s (223 events)	1h 3m 52s (26 events)
Events ≤ 10 min apart	14h 4m 30s (385 events)	2h 9m 39s (46 events)
Events ≤ 15 min apart	19h 19m 16s (413 events)	2h 46m 18s (43 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.