

Noise Impact Summary: August 2026

--- Acacia Park

Official report for community transparency and policy review.

Key Monthly Metrics

Metric Category	Recorded Observation
Monthly Event Count	11,804 airplane noise events detected (day + night).
Day Event Count	10,256 day events detected.
Night Event Count	1,548 night-window events detected (11:00 PM–7:00 AM).
Missing dB Values	62 events in this export have no dB value reported.
Night Observation	11:00 PM to 7:00 AM analysis window.
Day Limit Violations	10,197 day events above the 55 dB threshold (where dB reported).
Night Limit Violations	1,545 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	2.1 minutes (median gap between night-window events).
Daytime Median Gap	1.9 minutes (median gap between daytime events).
Night Intensity	Median: 70.7 dB Max: 87.9 dB (where dB reported).

Sustained Noise Sequences (Event Trains)

Max Gap Allowed	Full Day Max Duration	Night Hours Only
Events ≤ 5 min apart	6h 12m 18s (205 events)	0h 57m 45s (26 events)
Events ≤ 10 min apart	16h 24m 10s (452 events)	2h 23m 34s (47 events)
Events ≤ 15 min apart	19h 50m 45s (435 events)	2h 57m 13s (52 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.