

Noise Impact Summary: May 2025

Official report for community transparency and policy review.

| Key Monthly Metrics | |
|-------------------------------|---|
| Metric Category | Recorded Observation |
| Monthly Event Count | 7,374 airplane noise events detected. |
| Night Observation | 11:00 PM to 7:00 AM analysis window. |
| Night Limit Violations | 776 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: 71.3 dB Max: 89.0 dB. |

| Sustained Noise Sequences (Event Trains) | | |
|--|-----------------------------|---------------------------|
| Max Gap Allowed | Full Day Max Duration | Night Hours Only |
| Events ≤ 5 min apart | 4h 48m 41s (164 events) | 0h 27m 39s (24 events) |
| Events ≤ 10 min apart | 13h 31m 48s (386 events) | 1h 54m 08s (40 events) |
| Events ≤ 15 min apart | 15h 38m 39s (426 events) | 1h 54m 08s (40 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. |