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

| Key Monthly Metrics | |
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| Metric Category | Recorded Observation |
| Monthly Event Count | 9,872 airplane noise events detected. |
| Night Observation | 11:00 PM to 7:00 AM analysis window. |
| Night Limit Violations | 1,287 events above the 45 dB threshold. |
| Frequency of Impact | Exceedances occurred on 27 of 30 nights. |
| Density of Noise | Median gap between events is 1.9 minutes. |
| Night Intensity | Median: 70.4 dB Max: 88.1 dB. |

| Sustained Noise Sequences (Event Trains) | | |
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| Max Gap Allowed | Full Day Max Duration | Night Hours Only |
| Events ≤ 5 min apart | 5h 28m 33s (185 events) | 1h 04m 36s (29 events) |
| Events ≤ 10 min apart | 15h 29m 03s (379 events) | 1h 49m 46s (43 events) |
| Events ≤ 15 min apart | 19h 25m 13s (491 events) | 2h 16m 43s (49 events) |

| Scientific Impact Transparency | |
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| 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. |