

**Enforcement of General Aviation Noise Ordinance (“GANO”)
Semi-Annual Report
July 1, 2023 through December 31, 2023**

General Aviation (GA) noise levels for the period remained substantially below maximum permissible levels. Total noise violations (105) represent 0.111% of the total 94,514 General Aviation operations, and demonstrate the continued success of our educational and enforcement efforts. Average noise levels, number of general aviation violations, and related complaints are discussed below.

I. AVERAGE NOISE LEVELS

Noise energy averages (expressed as "Single Event Noise Exposure Levels" or "SENEL") at the criterion noise monitoring stations (NMS) 1S, 2S and 3S have been regulated since the ordinance enforcement date of April 1, 1986.* Table 1 illustrates average SENEL values at NMS 1S through NMS 7S produced by private jet aircraft during the second six months of the 2023 calendar year. There are approximately 3,700 to 4,400 private jet operations per month.

This report covers the six month period of July through December 2023, and most of the comments here relate to that period.

* Ordinance No. 3505; Codified Ordinance of Orange County Section 2-1-30.1 et. seq.

TABLE 1

General Aviation Jet Average Monthly Noise Levels

Month	NMS 1S			NMS 2S			NMS 3S			NMS 4S			NMS 5S			NMS 6S			NMS 7S		
	2022	2023	Chg.	2022	2023	Chg.	2022	2023	Chg.	2022	2023	Chg.	2022	2023	Chg.	2022	2023	Chg.	2022	2023	Chg.
MAXIMUM PERMISSIBLE:	102.5			101.8			101.1			94.8			95.3			96.8			93.7		
MEASURED AVERAGES:																					
July	87.8	87.7	(0.1)	86.9	87.2	0.3	89.0	88.7	(0.3)	82.1	81.8	(0.3)	82.0	81.5	(0.5)	83.4	82.8	(0.6)	81.4	81.2	(0.2)
August	87.7	87.8	0.1	86.9	87.3	0.4	88.9	89.0	0.1	81.8	81.8	0.0	81.7	81.7	0.0	83.0	83.1	0.1	81.3	81.2	(0.1)
September	87.7	88.1	0.4	87.0	87.6	0.6	88.9	89.1	0.2	81.8	82.6	0.8	82.1	81.9	(0.2)	83.5	83.3	(0.2)	81.6	81.7	0.1
October	88.2	87.9	(0.3)	87.9	87.4	(0.5)	89.1	89.0	(0.1)	82.1	82.2	0.1	82.1	81.9	(0.2)	83.2	83.4	0.2	81.4	81.5	0.1
November	87.8	87.4	(0.4)	87.5	87.0	(0.5)	88.4	88.2	(0.2)	82.3	82.2	(0.1)	82.7	81.9	(0.8)	83.0	83.0	0.0	81.5	81.2	(0.3)
December	88.5	88.0	(0.5)	87.8	87.5	(0.3)	89.3	89.0	(0.3)	82.6	82.6	0.0	82.3	82.2	(0.1)	83.3	83.5	0.2	81.4	81.0	(0.4)

In reviewing general aviation monthly noise levels for the second six months of the 2023 calendar year, noise levels were found to be generally equal to or slightly lower than, the July – December 2022 period.

II. **GANO VIOLATIONS**

Strict adherence to GANO noise limits remains a priority. Aircraft identification (through Federal Aviation Administration System Wide Information Management (SWIM) data, and review of aircraft voice digital recordings of controller-pilot communication), owner notification, and follow-up communication with GA operators, continues to strengthen our educational process to achieve GANO compliance.

For the first noise limit violation by an aircraft, the aircraft's registered owner is sent a "Notice of Violation" letter by certified mail. The letter lists the measured noise levels, a comparison to the GANO noise limits, and the time and date of occurrence. The aircraft owner is asked to understand and comply with the noise limits during subsequent operations. The owner is encouraged to contact the Access and Noise Office with any questions.

For the second GANO noise limit violation by an aircraft, within a three-year time period, the owner/operator is informed of the violation by the Access & Noise Office via a telephone call prior to sending a "Second Notice of Violation" letter to the aircraft's registered owner. This certified letter also lists the measured noise levels, a comparison to the GANO limits, and documents the time and date of occurrence. The second violation letter also urges the owner to contact the Access and Noise Office if there are any questions with the violation.

For the third GANO noise limit violation within a three-year time period, the owner/operator is informed of the violation by the Access & Noise Office via a telephone call, and a letter, also sent by certified mail, informs the registered owner that he or she, the aircraft operator, and the aircraft itself are denied use of John Wayne Airport for three years. The letter also explains the GANO appeal of violation procedures. County Counsel prepares this written correspondence notifying the aircraft owner that future operations at JWA may result in civil action. The aircraft owner may meet with Counsel and Airport Administration to discuss the feasibility of the aircraft's future use of JWA. Such meetings have been very beneficial, with typical results ranging from the owner voluntarily ceasing operations at JWA, to performing a noise test (similar to that performed by commercial aircraft) to demonstrate whether the aircraft is capable of meeting the GANO noise criteria.

Table 2 illustrates the GANO noise limit monthly violations count for July 1, 2023 through December 31, 2023.

TABLE 2

GANO Noise Limit Monthly Violation Count
 July through December 2023

(Total General Aviation Operations = 94,514)

Month	Violation			
	First	Second	Third	Total
July	13	0	0	13
August	17	2	1	20
September	22	3	0	25
October	15	3	0	18
November	13	2	0	15
December	13	1	0	14
6-Month Total:	93	11	1	105
% of GA Operations:	0.098%	0.012%	0.001%	0.111%

III. GENERAL AVIATION OPERATION COMPLAINTS

Table 3 illustrates the number of General Aviation operation monthly complaints received by the Access and Noise Office.

TABLE 3

General Aviation Operation Monthly Complaints

Month	2022	2023	Change	% Change
July	2,745	3,910	1,165	42.44%
August	2,997	4,457	1,460	48.72%
September	3,468	4,988	1,520	43.83%
October	3,755	4,362	607	16.17%
November	2,652	3,686	1,034	38.99%
December	1,834	2,975	1,141	62.21%
6-Month Total:	17,451	24,378	6,927	39.69%

Note:

- Beginning in September 2018, an online subscription complaint service was utilized

SUMMARY

Enforcement of the General Aviation Noise Ordinance by Airport staff remains a high priority.

General Aviation compliance is evident through pilot awareness and noise mitigation actions. Staff will continue to monitor General Aviation activity closely, and I will continue to advise the Board and Airport Commission concerning GANO enforcement.