

January 22, 2009

Orange County Board of Supervisors
333 W. Santa Ana Blvd.
Santa Ana, CA 92701

Subject: Enforcement of General Aviation Noise Ordinance;
July 1, 2008 through December 31, 2008

Honorable Board Members:

This semi-annual report is to provide an update of Airport Staff's enforcement of the General Aviation Noise Ordinance ("GANO"), which became effective April 1, 1986.*

General Aviation (GA) noise levels for the period remained substantially below maximum permissible levels. Total noise violations (105) represent 0.193% of the total 54,355 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, NMS 2S and NMS 3S produced by private jet aircraft during the 2008 calendar year. There are approximately 2,600 to 2,700 private jet operations per month.

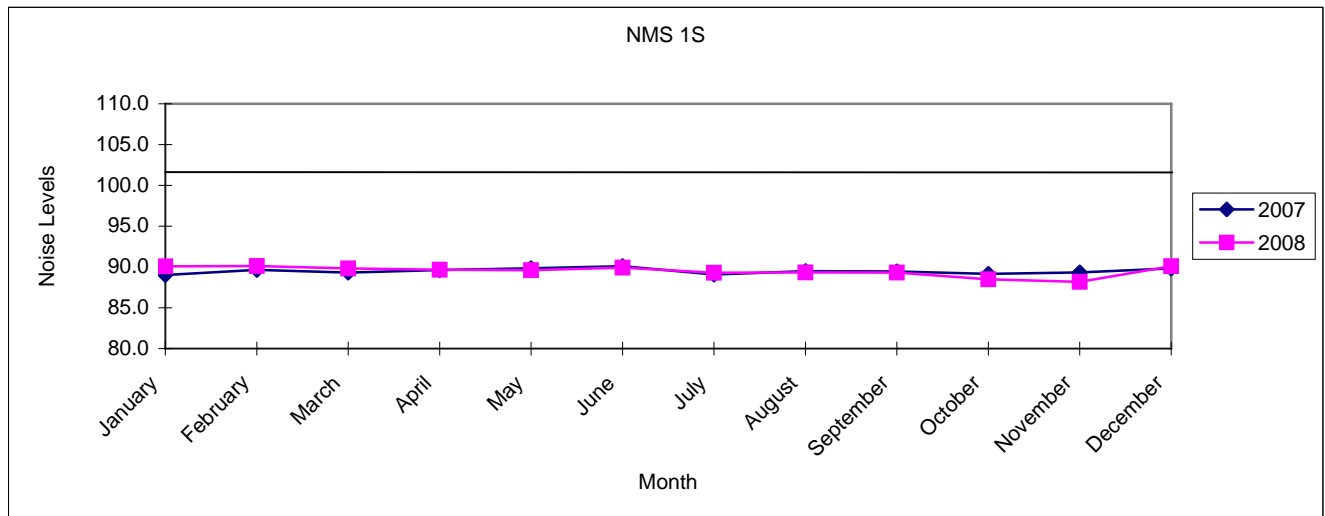
This report covers the six month period of July 2008 through December 2008, and most of the comments here relate to that period. Cumulative data for the 12 months January 2008 through December 2008 are provided as additional information.

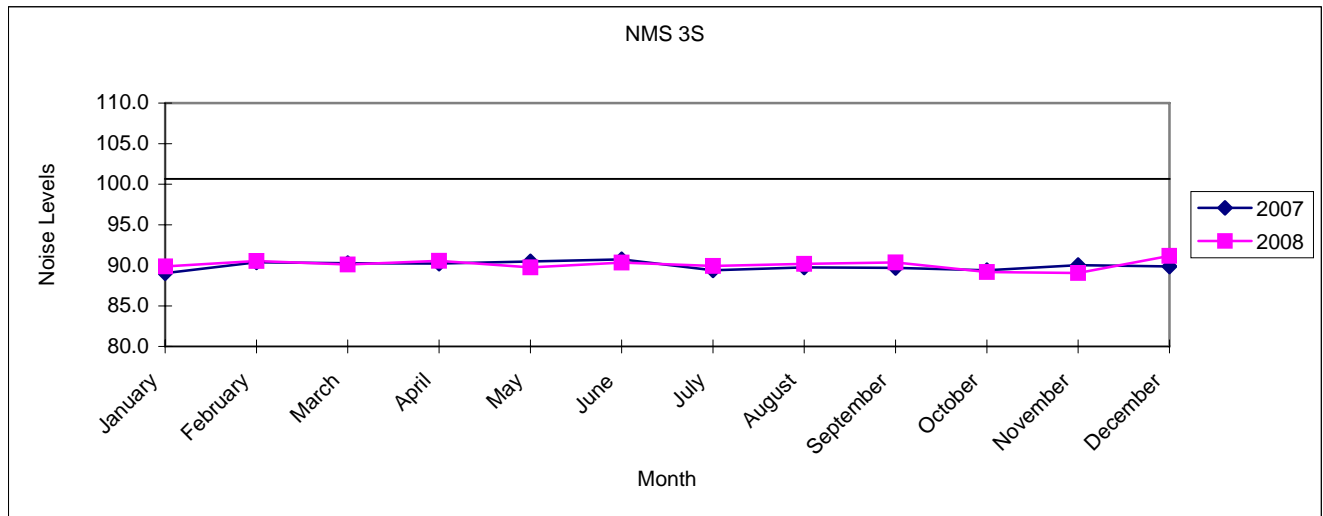
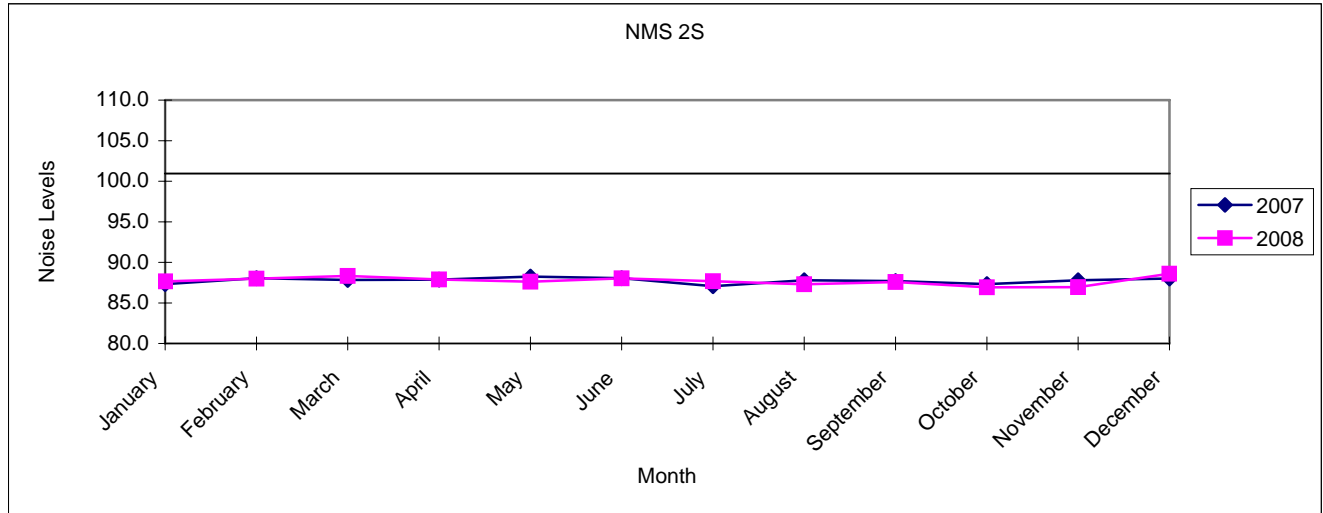
* Ordinance No. 3505; Codified Ordinance of Orange County Section 2-1-30.1 et. seq.

TABLE 1
 General Aviation Average Monthly Noise Levels

	NMS 1S			NMS 2S			NMS 3S		
MAXIMUM PERMISSIBLE:	101.8			101.1			100.7		
MEASURED AVERAGES:									
Month	2007	2008	Chg.	2007	2008	Chg.	2007	2008	Chg.
January	89.0	90.1	1.1	87.3	87.7	0.3	89.0	89.9	0.8
February	89.6	90.1	0.5	88.1	88.0	(0.1)	90.4	90.5	0.2
March	89.3	89.8	0.5	87.8	88.3	0.5	90.3	90.1	(0.2)
April	89.6	89.7	0.0	87.9	87.9	0.0	90.2	90.6	0.3
May	89.8	89.6	(0.2)	88.3	87.6	(0.6)	90.5	89.7	(0.7)
June	90.1	89.9	(0.2)	88.0	88.0	(0.0)	90.7	90.3	(0.4)
July	89.1	89.3	0.2	87.1	87.7	0.6	89.4	89.9	0.5
August	89.5	89.3	(0.1)	87.8	87.3	(0.5)	89.7	90.2	0.4
September	89.5	89.3	(0.1)	87.7	87.6	(0.1)	89.7	90.3	0.7
October	89.2	88.5	(0.7)	87.3	86.9	(0.4)	89.4	89.2	(0.2)
November	89.3	88.2	(1.2)	87.8	86.9	(0.8)	90.0	89.1	(1.0)
December	89.8	90.1	0.3	88.0	88.6	0.6	89.9	91.2	*1.3

* The increase in the average monthly noise level at NMS 3S was primarily influenced by the operations of two General Aviation aircraft which produced noise levels in excess of 104 dB SENEL.





In reviewing general aviation monthly noise levels for the second six months of 2008, noise levels were found to be generally equal to, or slightly less than, the July to December 2007 period.

Even with these fluctuations in general aviation noise level averages, all noise level averages remain substantially less than those permitted by the GANO.

II. GANO VIOLATIONS

Strict adherence to GANO noise limits remains a priority. Aircraft identification (through Federal Aviation Administration Automated Radar Terminal System (ARTS) III-E 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, a "Second Notice of Violation" is sent 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 urges the owner to contact the Access and Noise Office.

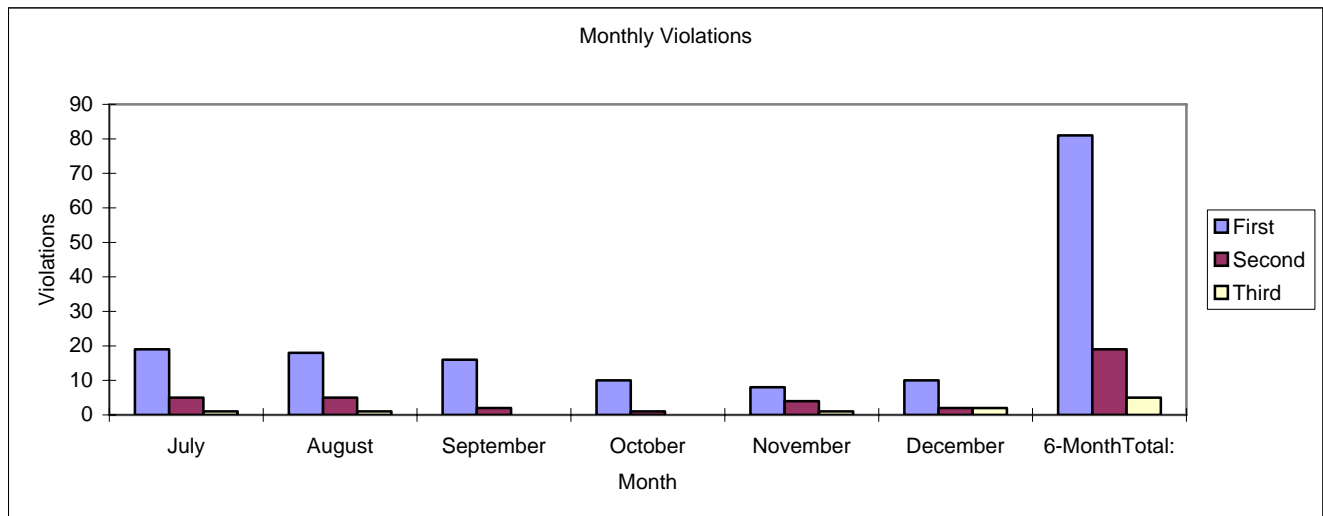
For the third GANO noise limit violation within a three-year time period, a letter, also sent by certified mail, informs the registered owner that he or she, the aircraft operator, and the aircraft itself are denied use of John Wayne Airport for three years. The letter also explains the GANO appeal of 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 John Wayne Airport. 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 2008 through December 2008.

TABLE 2

GANO Noise Limit Monthly Violation Count
 July through December 2008
 (Total General Aviation Operations = 54,355)

Month	Violation			
	First	Second	Third	Total
July	19	5	1	25
August	18	5	1	24
September	16	2	0	18
October	10	1	0	11
November	8	4	1	13
December	10	2	2	14
6-MonthTotal:	81	19	5	105
% of GA Operations:	0.149%	0.035%	0.009%	0.193%



III. GENERAL AVIATION OPERATION COMPLAINTS

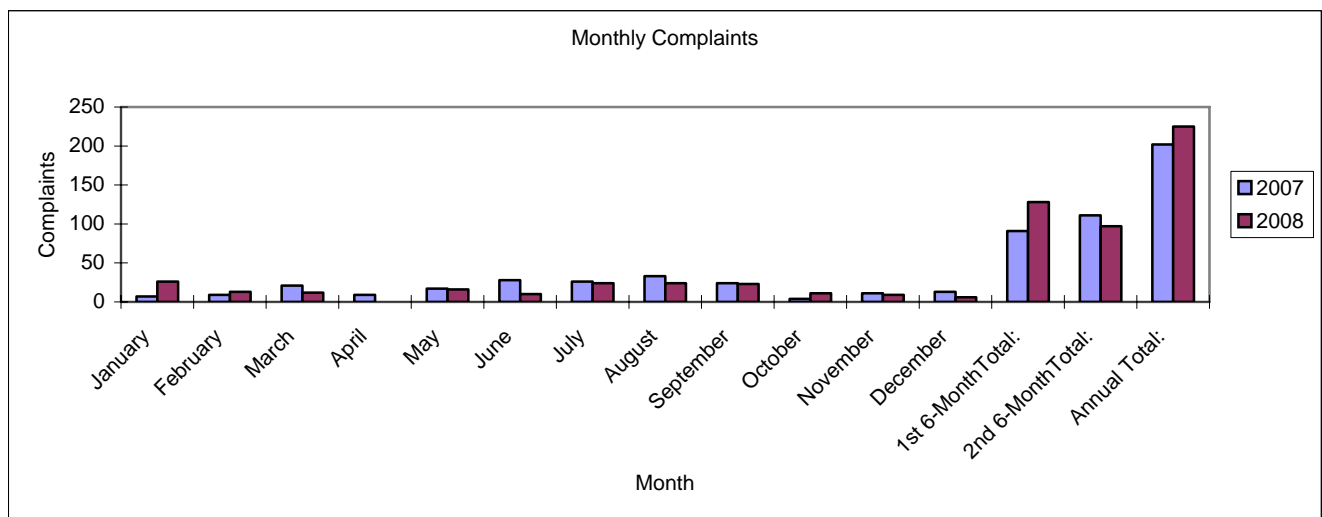
Table 3 illustrates the number of General Aviation operation monthly complaints received by the Access and Noise Office.

TABLE 3

General Aviation Operation Monthly Complaints

Month	2007	2008	Change	% Change
January	7	26	19	271.43%
February	9	13	4	44.44%
March	21	12	(9)	(42.86%)
April	9	*51	42	466.67%
May	17	16	(1)	(5.88%)
June	28	10	(18)	(64.29%)
July	26	24	(2)	(7.69%)
August	33	24	(9)	(27.27%)
September	24	23	(1)	(4.17%)
October	4	11	7	175.00%
November	11	9	(2)	(18.18%)
December	13	6	(7)	(53.85%)
1st 6-MonthTotal:	91	128	37	40.66%
2nd 6-MonthTotal:	111	97	(14)	(12.61%)
Annual Total:	202	225	23	11.39%

* The increase in the number of complaints for the month of April 2008 was primarily influenced by the operations of two General Aviation aircraft which produced high noise levels and generated a combined total of forty complaints.



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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.

Very truly yours,

Alan L. Murphy
Airport Director

cc: County Executive Officer
Airport Commissioners
Airport Working Group ("AWG")
City of Newport Beach
County Counsel
Airport Special Counsel
Assistant Airport Director
Deputy Director, Public Affairs
Manager, Access and Noise
Access and Noise Office
Manager, Quality Control & Compliance