

September 28, 2009

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

Subject: Enforcement of General Aviation Noise Ordinance;  
January 1, 2009 through June 30, 2009

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 (66) represent 0.110% of the total 59,874 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 (first six months of the) 2009 calendar year. There are approximately 1,900 to 2,000 private jet operations per month.

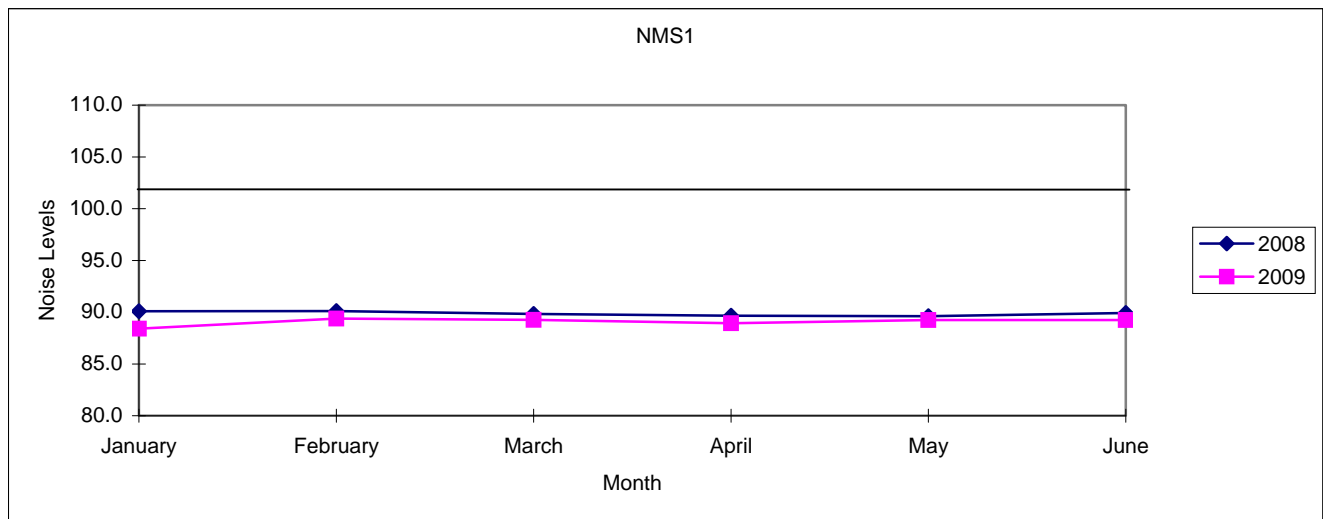
This report covers the six month period of January 2009 through June 2009, and most of the comments here relate to that period.

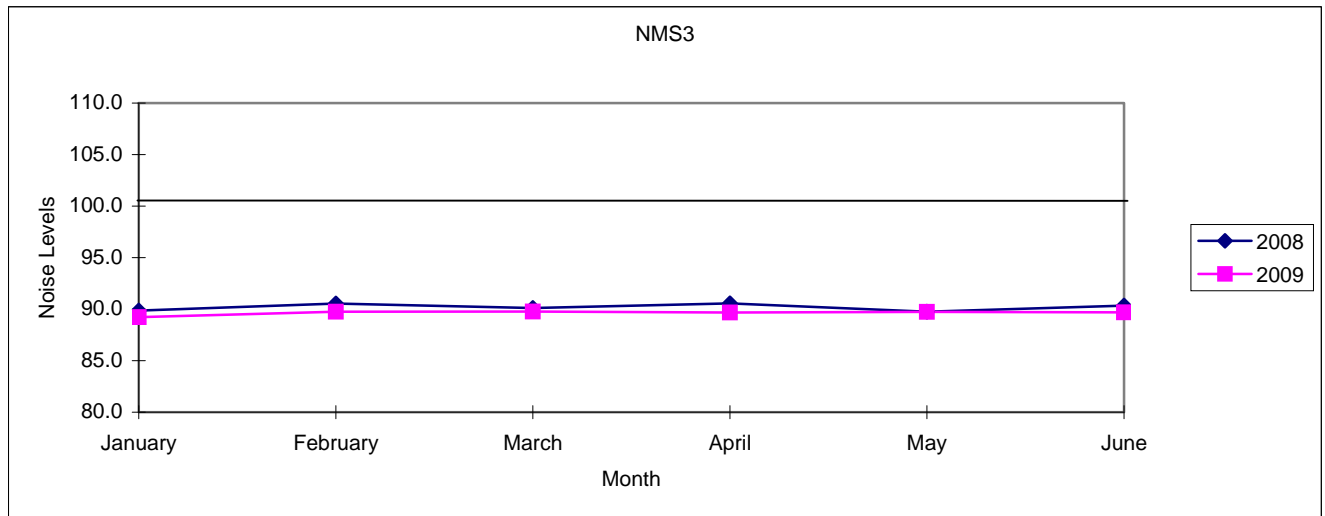
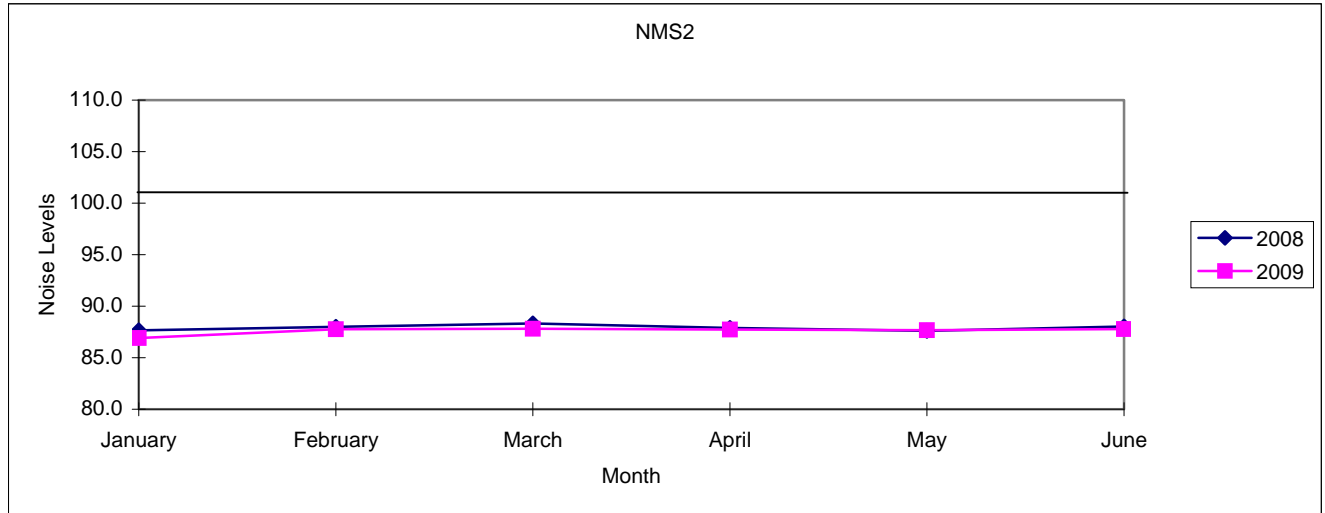
\* Ordinance No. 3505; Codified Ordinance of Orange County Section 2-1-30.1 et. seq.

TABLE 1

General Aviation Average Monthly Noise Levels

	NMS 1S			NMS 2S			NMS 3S		
MAXIMUM PERMISSIBLE:	101.8			101.1			100.7		
MEASURED AVERAGES:									
Month	2008	2009	Chg.	2008	2009	Chg.	2008	2009	Chg.
January	90.1	88.4	(1.7)	87.7	86.9	(0.7)	89.9	89.2	(0.6)
February	90.1	89.4	(0.7)	88.0	87.8	(0.2)	90.5	89.7	(0.8)
March	89.8	89.3	(0.6)	88.3	87.8	(0.5)	90.1	89.8	(0.3)
April	89.7	88.9	(0.7)	87.9	87.7	(0.2)	90.6	89.7	(0.9)
May	89.6	89.2	(0.4)	87.6	87.7	0.1	89.7	89.7	(0.0)
June	89.9	89.2	(0.7)	88.0	87.8	(0.2)	90.3	89.7	(0.6)





In reviewing general aviation monthly noise levels for the first six months of 2009, noise levels were found to be generally equal to, or slightly less than, the January through June 2008 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.

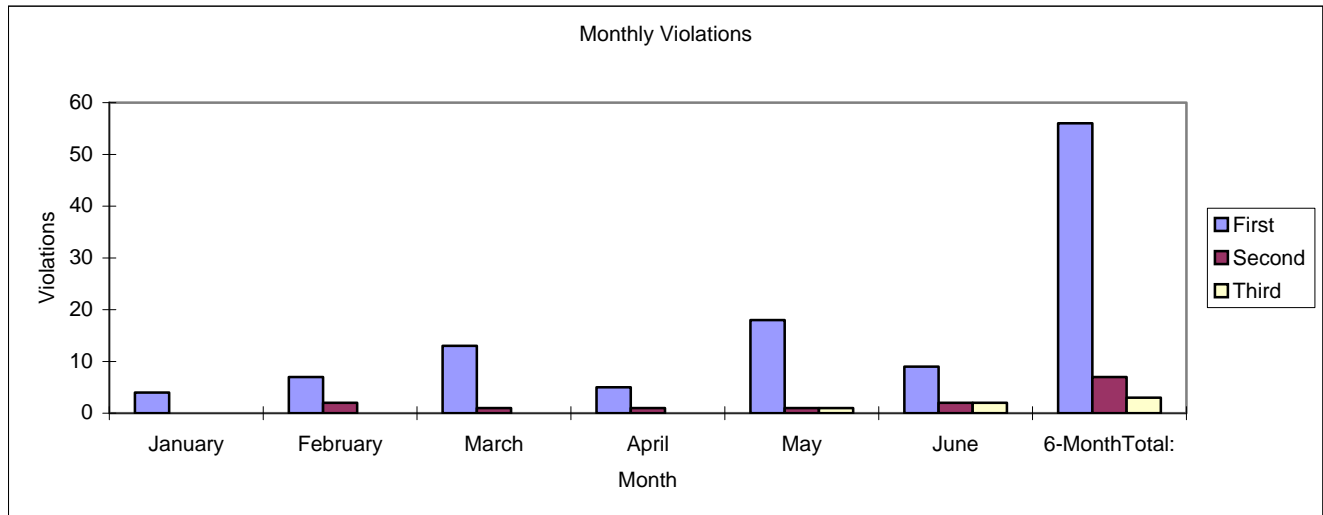
For the third GANO noise limit violation within a three-year time period, a letter, also sent by certified mail, informs the registered owner that he or she, the aircraft operator, and the aircraft itself are denied use of John Wayne Airport for three years. The letter also explains the GANO appeal of 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 January 2009 through June 30, 2009.

TABLE 2

GANO Noise Limit Monthly Violation Count  
 January through June 2009  
 (Total General Aviation Operations = 59,874)

Month	Violation Occurance			
	First	Second	Third	Total
January	4	0	0	4
February	7	2	0	9
March	13	1	0	14
April	5	1	0	6
May	18	1	1	20
June	9	2	2	13
6-MonthTotal:	56	7	3	66
% of GA Operations:	0.094%	0.012%	0.005%	0.110%



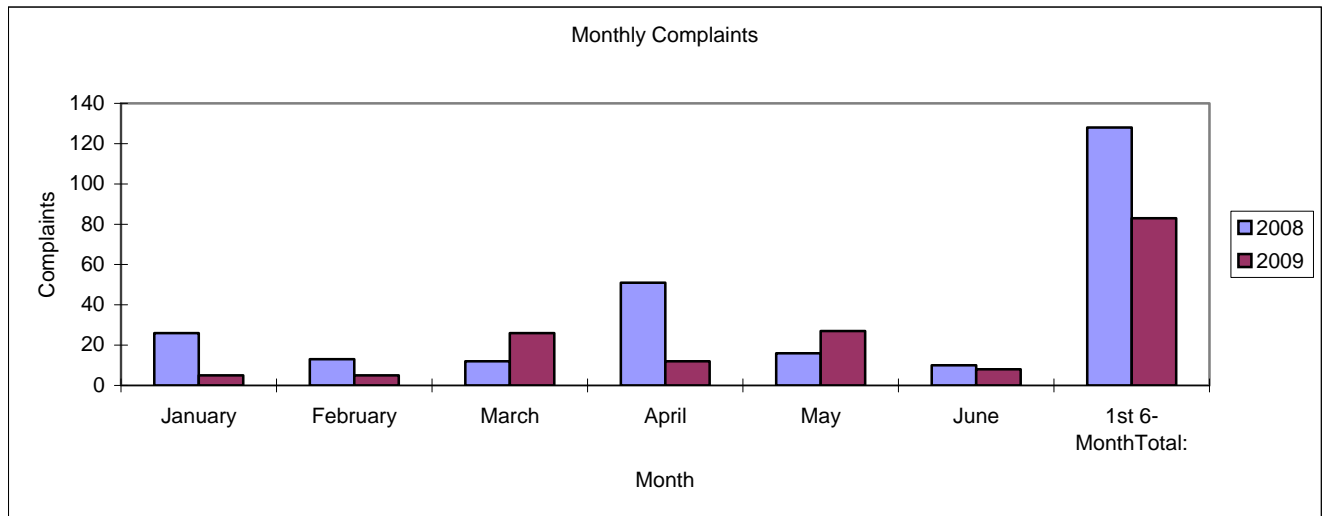
### III. GENERAL AVIATION OPERATION COMPLAINTS

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	2008	2009	Change	% Change
January	26	5	(21)	(80.77%)
February	13	5	(8)	(61.54%)
March	12	26	14	116.67%
April	51	12	(39)	(76.47%)
May	16	27	11	68.75%
June	10	8	(2)	(20.00%)
1st 6-MonthTotal:	128	83	(45)	(35.16%)



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