



JOHN WAYNE  
AIRPORT  
Orange County, California

Alan L. Murphy  
Airport Director

January 23, 2007

Orange County Board of Supervisors  
R. E. Thomas Hall of Administration  
10 Civic Center Plaza  
Santa Ana, CA 92701

Subject: Enforcement of General Aviation Noise Ordinance;  
July 1, 2006 through December 31, 2006

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 (129) represent 0.107% of the total 120,699 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 2006 calendar year. There are approximately 2,900 to 3,500 private jet operations per month.

This report covers the six month period of July 2006 through December 2006, and most of the comments here relate to that period. Cumulative data for the 12 months January 2006 through December 2006 are provided as additional information.

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

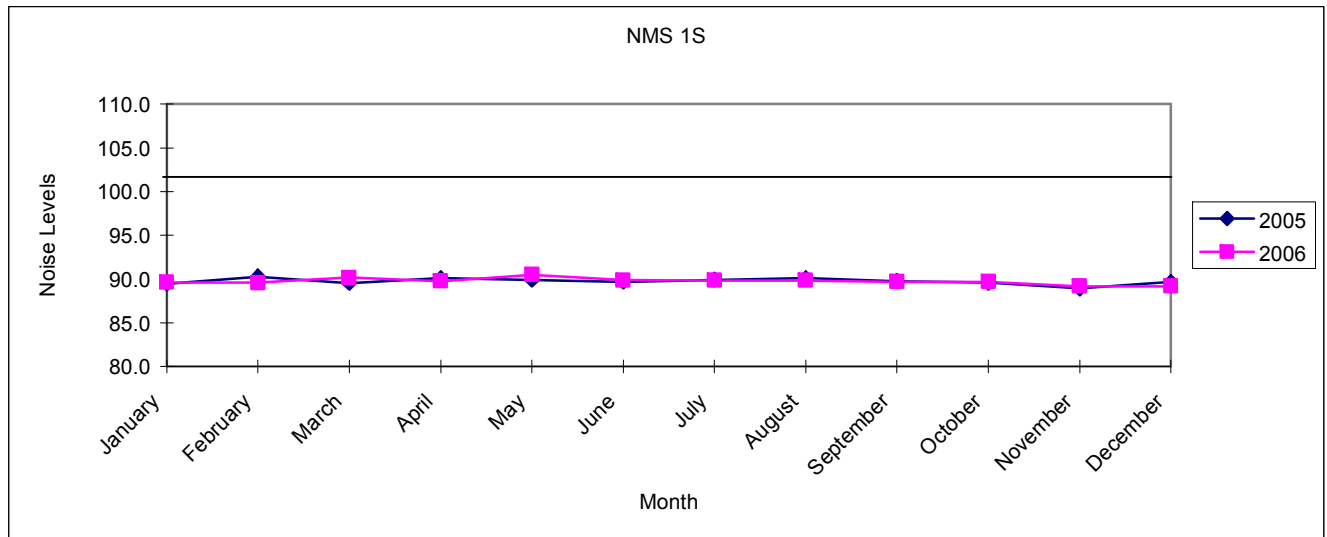
3160 Airway Avenue  
Costa Mesa, CA  
92626-4608  
(949) 252-5171  
(949) 252-5178 FAX  
[www.ocair.com](http://www.ocair.com)

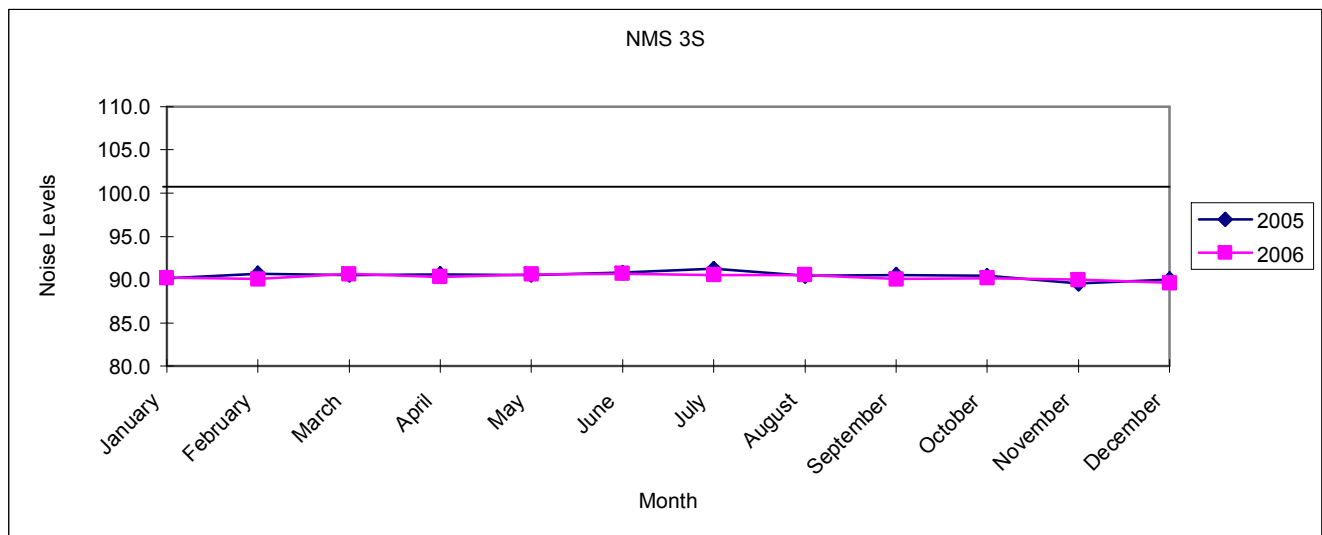
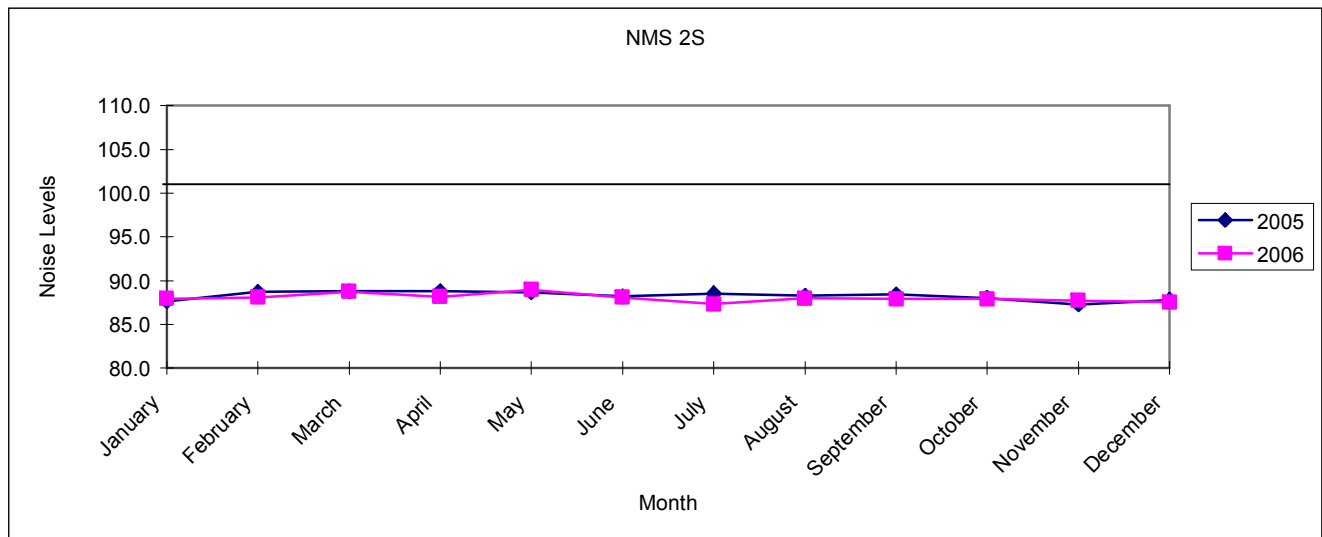


TABLE 1

General Aviation Average Monthly Noise Levels

	NMS 1S			NMS 2S			NMS 3S		
MAXIMUM PERMISSIBLE:	101.8			101.1			100.7		
MEASURED AVERAGES:									
Month	2005	2006	Chg.	2005	2006	Chg.	2005	2006	Chg.
January	89.5	89.6	0.2	87.7	87.9	0.3	90.2	90.2	0.0
February	90.3	89.6	(0.7)	88.7	88.1	(0.6)	90.7	90.1	(0.6)
March	89.6	90.2	0.6	88.8	88.8	(0.0)	90.5	90.6	0.1
April	90.1	89.8	(0.3)	88.8	88.2	(0.6)	90.6	90.3	(0.3)
May	89.9	90.5	0.6	88.7	89.0	0.3	90.5	90.6	0.1
June	89.7	89.9	0.2	88.2	88.1	(0.1)	90.8	90.7	(0.1)
July	89.9	89.8	(0.1)	88.5	87.3	(1.2)	91.2	90.5	(0.7)
August	90.1	89.8	(0.3)	88.3	88.0	(0.3)	90.4	90.5	0.1
September	89.8	89.7	(0.1)	88.4	87.9	(0.5)	90.5	90.1	(0.5)
October	89.6	89.7	0.1	88.0	87.9	(0.1)	90.4	90.2	(0.3)
November	88.9	89.2	0.3	87.3	87.7	0.4	89.5	90.0	0.5
December	89.7	89.2	(0.5)	87.8	87.5	(0.3)	90.0	89.6	(0.4)





In reviewing general aviation monthly noise levels for the second six months of 2006, noise levels were found to be generally equal to, or slightly less than, the July - December 2005 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.

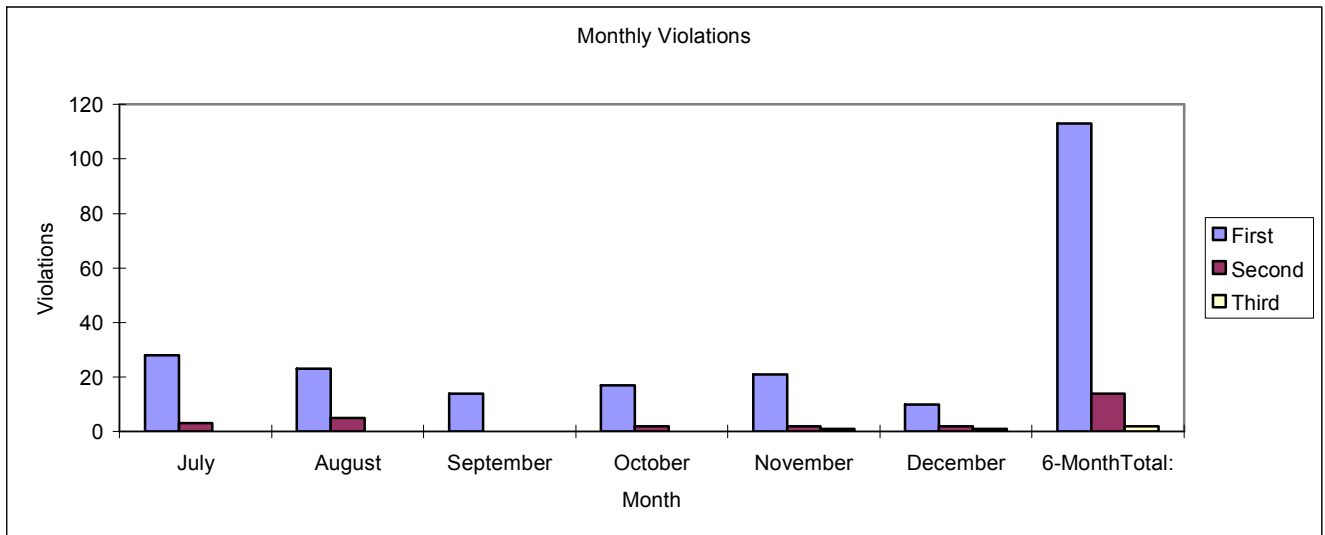
For the third GANO noise limit violation within a three-year time period, a letter, also sent by certified mail, informs the registered owner that he or she, the aircraft operator, and the aircraft itself are denied use of John Wayne Airport for three years. The letter also explains the GANO appeal of 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 2006 through December 2006.

TABLE 2

GANO Noise Limit Monthly Violation Count  
 July through December 2006  
 (Total General Aviation Operations = 120,699)

Month	Violation Occurance			
	First	Second	Third	Total
July	28	3	0	31
August	23	5	0	28
September	14	0	0	14
October	17	2	0	19
November	21	2	1	24
December	10	2	1	13
6-MonthTotal:	113	14	2	129
% of GA Operations:	0.094%	0.012%	0.002%	0.107%



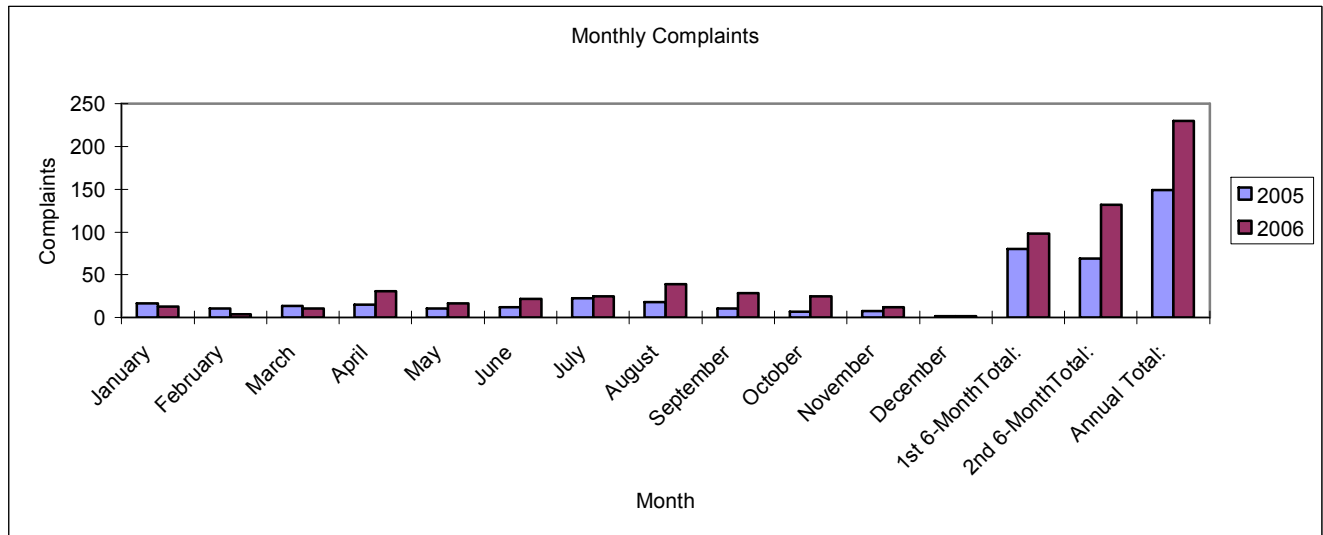
III. GENERAL AVIATION OPERATION COMPLAINTS

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	2005	2006	Change	% Change
January	17	13	(4)	(23.53%)
February	11	4	(7)	(63.64%)
March	14	11	(3)	(21.43%)
April	15	31	16	106.67%
May	11	17	6	54.55%
June	12	22	10	83.33%
July	23	25	2	8.70%
August	18	39	21	116.67%
September	11	29	18	163.64%
October	7	25	18	257.14%
November	8	12	4	50.00%
December	2	2	0	0.00%
1st 6-Month Total:	80	98	18	22.50%
2nd 6-Month Total:	69	132	63	91.30%
Annual Total:	149	230	81	54.36%



Board of Supervisors  
January 23, 2007  
Page 7 of 7

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