

NOISE ABATEMENT PROGRAM QUARTERLY REPORT

For the period: April 1, 2021 through June 30, 2021

Prepared in accordance with:

AIRPORT NOISE STANDARD

STATE OF CALIFORNIA

California Code of Regulations Airport Noise Standards Title 21: Public Works Division of Aeronautics (Department of Transportation) Chapter 6. Noise Standards

Submitted by:

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INTRODUCTION

This is the 194th Quarterly Report submitted by the County of Orange in accordance with the requirements of the California Airport Noise Standards (California Code of Regulations, Title 21: Public Works, Division 2.5, Division of Aeronautics (Department of Transportation), Chapter 6. Noise Standards). Effective January 1, 1986, the criteria for defining "Noise Impact Area" was changed from 70 dB to 65 dB Community Noise Equivalent Level (CNEL). Under this criteria, John Wayne Airport currently has a "Noise Impact Area."

NOISE IMPACT SUMMARY

Caltrans' Aeronautics Program has established guidelines in the California State Noise Standard to control residential area noise levels produced by aircraft operations using the State's airports. Under those guidelines, residential noise sensitive areas exposed to an average Community Noise Equivalent Level (CNEL) of more than 65 dB define the "Noise Impact Area." John Wayne Airport uses ten permanent remote noise monitoring stations (NMS) located in Newport Beach, Santa Ana, Tustin and Irvine to measure noise levels, at the following locations:

MONITOR STATIONS

NMS-1S: Golf Course, 3100 Irvine Ave., Newport Beach NMS-2S: 20162 S.W. Birch St., Newport Beach NMS-3S: 2139 Anniversary Lane, Newport Beach NMS-4S: 2338 Tustin Ave., Newport Beach NMS-5S: 324 ½ Vista Madera, Newport Beach NMS-6S: 1912 Santiago, Newport Beach NMS-7S: 1131 Back Bay Drive, Newport Beach NMS-8N: 17372 Eastman Street, Irvine NMS-9N: 1300 S. Grand Avenue, Santa Ana NMS-10N: 17952 Beneta Way, Tustin

The map in Figure 1 shows the general location of each permanent remote monitor station.

Figure 2 shows the Airport's "Noise Impact Area" for the previous year (July 1, 2020 - June 30, 2021). The Figure 2 information was developed by Harris Miller Miller and Hanson Inc., in consultation with John Wayne Airport. CNEL values measured for the period and current digitized land use information were utilized to calculate the land area acreages, number of residences and estimated number of people within the "Noise Impact Area".

Quarterly Report April 2021 – June 2021

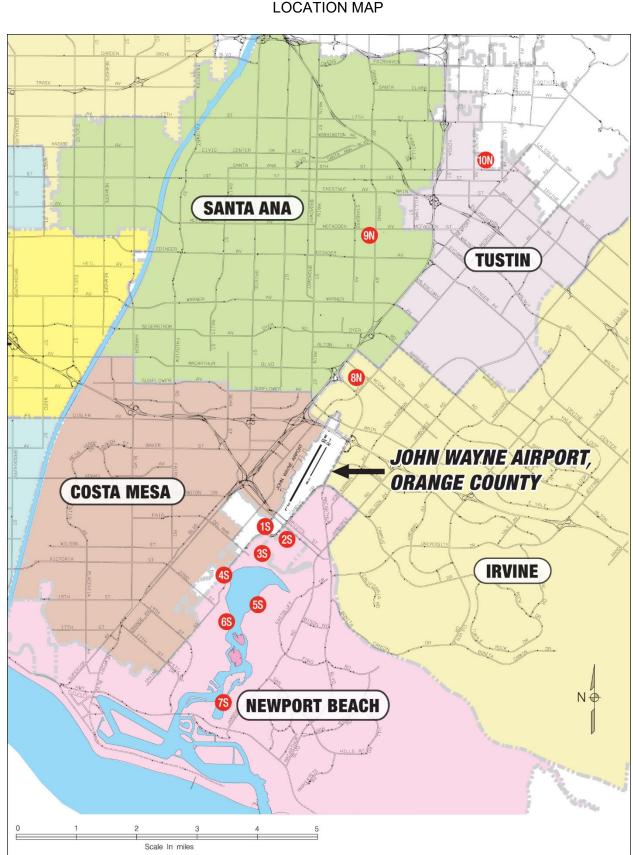
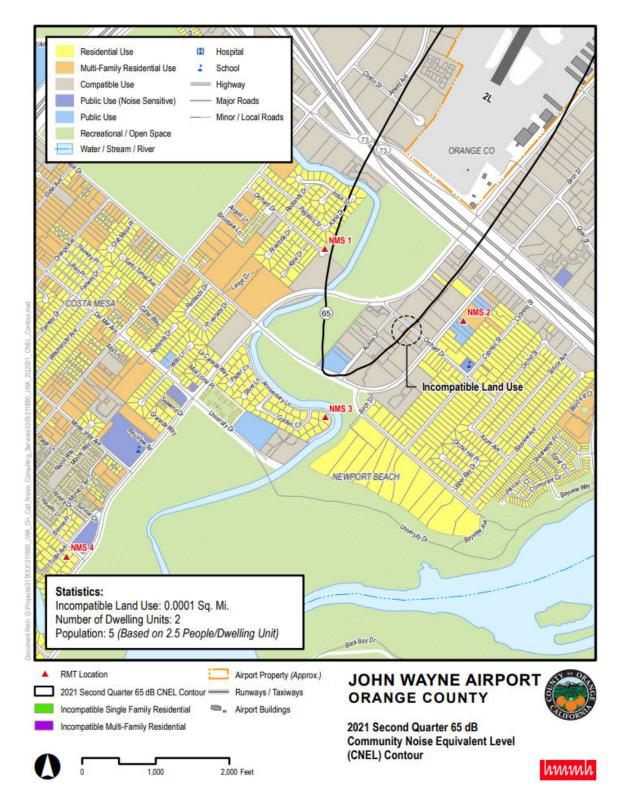


FIGURE 1 NOISE MONITORING STATIONS (NMS) LOCATION MAP

Noise Abatement Program

Quarterly Report April 2021 - June 2021

FIGURE 2 Noise Impact Area Map



AIRCRAFT TRAFFIC SUMMARY

The Airport traffic summary for this quarter is shown in Table 1 below. Air Carrier operational count histories and average daily departure counts are illustrated in Tables 9 & 11.

TABLE 1
LANDING AND TAKEOFF OPERATIONS
April - June 2021

Period	Air Car	riers	GA Jet (1)	Total	Average Daily							
	Jet	Prop		Operations (2)	Jet Operations							
April	5,822	0	3,555	26,798	313							
Мау	6,112	0	3,839	27,591	321							
June	6,924	0	4,175	29,153	370							
Second Quarter	18,858	0	11,569	83,542	335							
Twelve Months 07/01/20 - 06/30/21	57,682	0	38,832	278,258	264							

<u>NOTE:</u> (1) GA Jet figures include a 5% factor for operations not identified by the JWA noise monitor stations. (2) Counts in this column are based upon records provided by the local FAA representatives.

COMMUNITY NOISE EQUIVALENT LEVELS

The monthly, quarterly and twelve month Community Noise Equivalent Level (CNEL) average values for each monitor station are shown in Table 2, while daily CNEL values are shown in Tables 3 through 5. Insufficient data is indicated by "#N/A" entries in each table. Also, "*#N/A" entries in each table indicate there were no aircraft related noise events.

Average Single Event Noise Exposure Level (SENEL) values for Air Carrier and General Aviation Jet aircraft are shown in Tables 6 through 8.

ACOUSTICAL INSULATION PROGRAM

Four hundred eighteen residences in the Santa Ana Heights area have been sound attenuated and an avigation easement reserved through the County's Acoustical Insulation Program, which closed in December 2009. The County has also acquired 46 residences as part of the Purchase Assurance Program, many of which were acoustically insulated, an avigation easement reserved and then resold. Among these County acquired homes, those located within areas designated for Business Park uses were razed, avigation easements were reserved, and the land resold for compatible Business Park uses. A total of 464 residences in the Santa Ana Heights area have been purchased or otherwise made compatible through the County's Purchase Assurance and Acoustical Insulation Programs. Two dwelling units in Santa Ana Heights remain in the "Noise Impacted Area" (within 65 dB CNEL contour).

COMPLAINT TOTALS (April 1, 2021 - June 30, 2021)

The Airport's Access and Noise Office receives and investigates noise complaints from local citizens and all other sources. During the April 1, 2021 through June 30, 2021, the Office received 57,197 complaints from local citizens. This is a 141.3% increase from the 23,699 complaints received last quarter. It is a 200.8% increase from the 19,018 complaints received during the same quarter last year. Figure 4 shows the distribution of the quarterly complaints from local communities.

Noise Abatement Program

JOHN WAYNE AIRPORT ORANGE COUNTY

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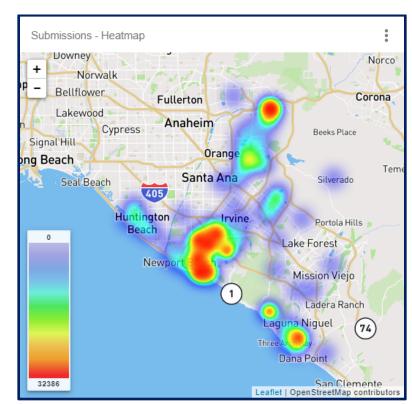


FIGURE 3 HISTOGRAM BY COMMUNITY

Top Loc	cations									
50 –	_									
25 —		-		_						
0 —	Newport Beach	Anaheim	Irvine	Costa Mesa	Laguna Niguel	Laguna Beach	Orange	Santa Ana	Huntington Beach	Other

Note:

- Newport Beach 41,778 submissions from 50 different points of contact.
- Anaheim 7,167 submissions from 17 different points of contact.
- Irvine 1,938 submissions from 17 different points of contact.
- Costa Mesa 1,919 submissions from 12 different points of contact.
- Laguna Niguel 1,650 submissions from 4 different points of contact.
- Laguna Beach 1,323 submissions from 2 different points of contact.
- Orange 423 submissions from 8 different points of contact.
- Santa Ana 393 submissions from 7 different points of contact.
- Huntington Beach 310 submissions from 10 different points of contact.
- Other 296 submissions from 17 different points of contact.
- 24% of submissions were from a complaint subscription service.

Period					NMS	Site				
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Jul 2020	63.3	63.0	62.1	55.8	54.7	56.0	51.4	64.2	40.4	52.2
# Days	31	31	31	31	31	31	31	31	25	31
Aug 2020	63.7	63.3	62.6	55.7	54.8	56.3	52.1	64.5	42.2	52.5
# Days	31	31	31	31	31	31	31	31	22	31
Sep 2020	63.7	63.3	62.8	55.1	54.2	55.6	51.2	64.0	39.4	51.9
# Days	30	30	30	30	30	30	30	30	27	30
Q-3 2020	63.6	63.2	62.5	55.5	54.6	56.0	51.6	64.2	40.7	52.2
# Days	92	92	92	92	92	92	92	92	74	92
Oct 2020	63.7	63.1	63.1	55.5	54.7	56.3	52.5	64.2	43.7	52.6
# Days	31	31	31	31	31	31	30	31	21	31
Nov 2020	63.5	63.3	62.5	56.1	55.2	56.1	52.6	64.3	41.1	52.0
# Days	30	30	28	30	30	30	30	30	23	30
Dec 2020	62.9	62.6	62.4	55.7	54.4	56.4	51.9	63.4	43.0	51.5
# Days	31	31	31	31	31	31	31	29	27	31
Q-4 2020	63.4	63.0	62.7	55.8	54.8	56.3	52.3	64.0	42.7	52.1
# Days	92	92	90	92	92	92	91	90	71	92
Jan 2021	62.6	62.3	62.0	55.7	54.7	56.3	52.3	63.4	42.2	52.2
# Days	31	31	31	31	31	31	30	24	15	31
Feb 2021	62.9	60.0	62.3	55.9	55.1	56.4	51.9	63.3	42.3	52.5
# Days	28	28	28	28	28	28	28	28	22	27
Mar 2021	64.8	61.7	63.7	57.8	57.1	57.9	54.4	65.8	43.5	55.4
# Days	31	31	31	37.8	37.1	37.9	34.4	31	43.3	33.4
Q-1 2021	63.6	61.5	62.7	56.6	55.8	56.9	53.1	64.4	42.8	53.7
# Days	90	90	90	90	90	90	89	83	60	89
Apr 2021	65.7	62.2	64.5	58.4	57.4	58.0	54.5	66.0	41.1	55.7
# Days	30	30	30	30	30	30	30	30	25	30
May 2021	66.2	62.7	65.1	59.0	57.7	58.8	54.8	66.7	41.7	56.3
# Days	31	31	31	31	31	31	31	31	27	31
Jun 2021	67.1	63.6	66.0	59.3	58.4	59.7	55.3	67.5	44.6	57.2
# Days	30	30	30	30	30	30	30	30	22	30
Q-2 2021	66.4	62.9	65.2	58.9	57.9	58.9	54.9	66.8	42.6	56.4
# Days	91	91	91	91	91	91	91	91	74	91
Q-3 2020 th	ru Q-2 202	21								
Total	64.4	62.7	63.5	56.9	56.0	57.2	53.1	65.0	42.2	54.0
# Days	365	365	363	365	365	365	363	356	279	364
Q-2 2020 th				rters)						
Total	62.9	62.1	62.0	55.5	54.5	55.8	51.8		42.4	52.1
# Days	365	365	363	365	365	365	363		281	364
Change fro	m Previou	s 4 Quart	ers							
	1.5	0.6	1.5	1.4	1.5	1.4	1.3	1.3	-0.2	1.9

TABLE 2 LONG TERM MEASURED LEVELS Aircraft CNEL from 07/01/20 through 06/30/21 Values in dB at Each Site

Quarterly Report April 2021 – June 2021

TABLE 3
DAILY CNEL VALUES AT EACH MONITOR STATION
April 2021

Date					NMS	Site				
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	64.4	60.8	62.8	54.4	54.0	54.1	49.5	65.2	*#N/A	52.3
2	66.7	63.0	65.3	59.6	57.5	58.8	54.3	67.1	28.0	57.0
3	65.2	61.3	63.7	56.5	55.8	56.7	51.5	65.3	40.7	54.4
4	65.9	61.9	64.6	58.1	57.3	57.6	54.0	66.8	41.2	56.1
5	66.9	62.8	65.8	59.7	58.9	59.5	55.9	67.0	35.9	57.3
6	65.9	62.2	64.8	58.6	57.9	58.6	55.3	66.0	40.4	55.9
7	65.6	62.2	64.7	58.6	57.5	58.1	54.7	65.8	47.5	55.4
8	66.2	62.7	65.1	59.1	58.2	59.0	55.5	67.1	*#N/A	56.2
9	66.4	63.2	64.9	59.5	58.6	59.2	55.6	67.0	*#N/A	56.5
10	65.2	62.0	64.1	58.0	56.9	58.0	54.4	66.0	*#N/A	55.6
11	67.1	63.3	66.0	59.9	58.4	59.6	56.3	67.6	38.5	57.4
12	66.3	62.5	65.3	59.3	58.1	58.8	54.8	66.8	30.3	56.5
13	64.4	61.2	63.6	58.6	57.1	57.9	54.4	65.5	45.2	55.3
14	65.4	61.9	64.0	59.3	57.3	57.6	55.0	65.8	40.9	56.0
15	66.2	63.0	65.0	58.7	58.4	58.0	55.7	66.1	40.3	56.8
16	66.3	62.9	65.3	59.1	58.4	58.6	55.7	66.7	34.3	56.0
17	65.0	61.6	63.5	57.8	57.0	57.2	52.4	65.1	34.7	55.2
18	62.8	59.1	63.1	54.3	53.8	57.5	46.4	64.1	45.5	52.5
19	65.4	62.0	62.4	57.0	56.6	56.1	52.5	66.3	32.7	55.2
20	65.0	61.4	63.7	59.0	56.7	58.2	53.6	65.0	29.4	55.6
21	65.4	62.0	64.3	58.8	57.5	57.9	55.3	65.6	35.9	55.7
22	65.9	62.8	64.8	58.8	58.3	58.3	55.6	65.9	*#N/A	56.3
23	66.4	62.9	65.1	59.1	57.8	58.8	55.6	66.5	36.8	56.3
24	64.6	61.5	63.3	57.5	57.0	56.7	53.6	65.3	27.8	55.3
25	66.1	62.8	64.9	58.8	58.3	58.6	55.6	67.2	33.0	56.6
26	65.6	62.6	64.2	58.4	58.4	58.6	56.0	66.3	44.9	56.5
27	65.0	61.6	63.5	57.4	57.3	57.3	54.6	65.1	42.1	54.5
28	65.1	61.9	64.1	57.1	56.9	57.1	53.7	64.2	44.9	53.2
29	66.5	63.2	65.6	57.5	57.2	57.9	52.8	65.0	31.4	53.7
30	65.7	62.3	64.5	56.9	56.1	56.8	52.9	65.4	44.2	55.0
Days	30	30	30	30	30	30	30	30	25	30
En. Avg	65.7	62.2	64.5	58.4	57.4	58.0	54.5	66.0	41.1	55.7

#N/A indicates insufficient data.

*#N/A indicates no aircraft-related noise events.

Quarterly Report April 2021 – June 2021

TABLE 4
DAILY CNEL VALUES AT EACH MONITOR STATION
May 2021

Date			-		NMS	Site		-		
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	64.6	60.9	63.3	57.7	55.4	56.4	52.5	64.9	28.9	55.3
2	66.0	62.4	64.5	59.0	57.1	58.3	55.2	66.8	40.4	56.2
3	65.8	62.7	64.7	58.5	58.0	58.0	55.6	65.8	46.2	55.7
4	65.0	61.6	64.1	56.9	56.7	57.3	52.9	65.4	45.0	54.9
5	65.0	61.9	64.3	57.8	56.5	56.7	53.0	65.3	37.9	55.6
6	66.2	62.7	65.1	59.0	57.7	58.6	54.8	66.6	34.3	56.5
7	66.6	63.3	65.6	59.1	58.2	59.0	54.2	67.3	*#N/A	56.8
8	64.9	61.2	63.2	58.2	56.6	56.9	54.0	65.2	41.3	54.4
9	66.1	62.6	64.8	59.0	57.9	58.8	53.9	67.5	29.0	57.3
10	66.6	62.5	65.2	59.8	58.4	59.6	55.5	67.3	33.7	56.4
11	65.3	62.4	64.6	60.5	57.2	57.5	52.8	66.1	39.4	55.5
12	65.5	62.6	65.1	58.6	57.7	58.6	54.5	65.2	42.4	55.4
13	66.8	63.6	65.7	58.7	58.2	59.0	54.0	66.6	*#N/A	56.5
14	66.6	63.2	65.5	59.4	58.6	59.8	55.5	67.2	37.3	56.9
15	65.0	61.4	63.3	57.9	57.0	57.8	54.3	65.3	44.4	54.8
16	67.2	63.6	66.0	60.3	59.1	59.9	56.2	67.7	38.0	57.3
17	66.5	63.1	64.9	58.4	57.9	58.9	55.2	67.1	47.2	56.9
18	66.2	62.6	65.1	58.6	57.9	58.3	55.2	65.8	45.2	55.1
19	66.4	62.7	64.9	59.0	58.0	59.1	55.1	66.3	38.7	56.3
20	67.4	63.5	66.2	60.6	58.7	60.8	56.7	68.3	45.1	57.7
21	66.9	63.6	65.5	59.7	58.7	59.8	56.4	67.2	38.9	57.0
22	65.4	61.7	63.9	58.0	56.9	58.0	55.0	65.4	*#N/A	55.1
23	66.7	63.3	65.5	58.8	58.3	59.1	55.3	67.5	42.0	57.0
24	66.7	63.2	65.6	57.8	57.5	58.6	54.8	66.3	*#N/A	55.0
25	65.9	62.3	64.7	58.0	56.8	58.2	54.4	65.9	34.5	55.2
26	66.5	62.6	65.1	59.4	57.2	58.6	54.8	66.5	32.2	56.6
27	67.2	63.9	66.1	59.9	58.6	60.0	56.0	67.7	34.9	57.5
28	67.4	63.8	66.3	59.9	58.7	60.2	56.3	68.4	43.6	57.9
29	65.6	61.6	64.6	58.4	56.7	58.1	52.6	65.5	40.8	55.8
30	65.5	62.1	64.5	58.5	57.1	58.1	53.7	67.1	36.4	57.2
31	67.3	63.6	66.5	59.7	58.1	59.8	54.7	67.9	44.0	57.2
Days	31	31	31	31	31	31	31	31	27	31
En. Avg	66.2	62.7	65.1	59.0	57.7	58.8	54.8	66.7	41.7	56.3

#N/A indicates insufficient data.

*#N/A indicates no aircraft-related noise events.

Quarterly Report April 2021 - June 2021

TABLE 5
DAILY CNEL VALUES AT EACH MONITOR STATION
June 2021

Date			-		NMS	Site				
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	66.6	62.9	65.2	58.0	57.0	58.3	53.1	66.6	35.7	55.5
2	66.0	62.6	64.8	57.6	56.7	58.0	52.5	66.5	*#N/A	55.6
3	66.6	63.2	65.6	59.4	57.9	59.2	54.2	66.7	33.3	56.5
4	67.0	63.4	66.4	59.8	58.9	60.2	55.7	66.8	41.7	57.2
5	65.8	62.3	64.5	57.5	56.1	56.9	51.7	65.6	39.2	55.4
6	67.1	63.5	66.0	60.7	58.9	60.3	56.3	68.3	53.4	58.0
7	67.5	63.6	66.3	60.9	59.0	60.5	57.5	68.3	*#N/A	58.6
8	66.1	62.4	64.7	59.0	58.1	58.8	56.0	66.6	40.5	56.8
9	66.3	63.3	65.2	59.0	58.8	59.1	56.1	67.1	41.1	57.1
10	67.2	63.9	65.8	59.4	58.7	59.7	55.7	67.4	34.3	56.9
11	67.4	63.9	66.0	59.7	59.0	59.9	55.7	68.2	42.6	57.6
12	66.0	62.5	65.0	58.3	56.8	58.1	53.5	66.5	27.4	55.7
13	67.3	64.0	66.1	58.7	57.9	59.2	54.4	68.1	42.2	57.6
14	67.6	64.1	66.8	59.6	59.0	60.3	55.8	66.9	35.7	56.1
15	66.9	63.0	65.6	57.3	57.1	58.0	54.2	66.8	48.1	55.7
16	67.3	63.5	65.7	59.6	58.1	59.9	55.2	67.7	35.9	57.2
17	67.4	63.9	66.3	59.6	58.5	59.9	54.9	68.0	45.1	57.3
18	67.5	64.0	66.3	59.5	58.3	59.6	55.3	67.9	49.0	58.4
19	66.1	62.9	65.0	58.0	57.7	58.8	53.3	66.9	47.4	56.2
20	67.4	63.9	66.0	58.7	57.8	59.4	55.0	69.0	44.9	58.1
21	68.1	64.7	67.1	60.7	60.2	61.2	56.3	68.0	39.9	57.7
22	66.8	63.8	66.0	58.6	59.0	59.7	55.2	67.6	*#N/A	57.3
23	67.1	63.8	66.4	59.6	59.2	60.3	56.3	64.5	42.7	57.3
24	67.8	64.6	66.6	59.3	59.7	60.6	56.3	68.3	*#N/A	57.4
25	68.0	64.7	66.9	60.1	59.7	60.8	57.1	67.6	*#N/A	58.0
26	66.5	62.8	65.3	57.8	57.0	58.6	54.8	66.8	42.5	56.5
27	67.2	63.6	66.5	59.6	58.4	60.4	55.1	68.2	38.4	57.8
28	67.6	64.1	66.6	59.6	59.0	60.2	55.1	68.5	*#N/A	57.9
29	67.7	64.0	66.7	60.0	58.2	59.8	55.2	67.6	*#N/A	57.7
30	68.0	64.4	66.8	59.6	58.7	60.7	55.1	68.2	*#N/A	57.3
Days	30	30	30	30	30	30	30	30	22	30
En. Avg	67.1	63.6	66.0	59.3	58.4	59.7	55.3	67.5	44.6	57.2

#N/A indicates insufficient data.

*#N/A indicates no aircraft-related noise events.

Noise Abatement Program

JOHN WAYNE AIRPORT ORANGE COUNTY

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TABLE 6 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commercial Class A April - June 2021

Carrier	АС Туре	# Deps						NMS	Site				
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Alaska Air	A320	644	Average Count	95.1 (637)	91.9 (621)	93.5 (626)	87.4 (630)	85.3 (627)	86.7 (587)	83.7 (607)	87.2 (1)	#N/A (0)	#N/A (0)
	B737	5	Average Count	94.0 (5)	90.5 (5)	93.0 (5)	86.5 (4)	87.4 (5)	87.7 (4)	83.9 (5)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	43	Average Count	96.4 (42)	92.8 (42)	94.5 (43)	88.5 (42)	88.5 (42)	89.5 (39)	85.7 (42)	#N/A (0)	#N/A (0)	#N/A (0)
Allegiant	A319	164	Average Count	92.5 (158)	88.8 (157)	91.7 (159)	86.9 (156)	85.1 (155)	86.1 (141)	80.5 (123)	85.6 (1)	#N/A (0)	#N/A (0)
	A320	54	Average Count	94.1 (54)	90.5 (54)	92.5 (54)	87.7 (54)	86.2 (52)	87.1 (49)	82.4 (54)	#N/A (0)	#N/A (0)	#N/A (0)
American	A21N	29	Average Count	89.5 (29)	86.6 (29)	88.3 (29)	82.0 (26)	80.5 (19)	81.0 (25)	78.3 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	A319		Average Count	93.8 (67)	90.7 (70)	92.5 (69)	86.7 (68)	85.3 (68)	85.6 (64)	81.1 (54)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	58	Average Count	95.1 (56)	91.9 (56)	93.8 (54)	86.8 (55)	85.1 (53)	85.4 (50)	81.6 (42)	#N/A (0)	#N/A (0)	#N/A (0)
	A321		Average Count	98.6 (126)	95.5 (127)	97.5 (127)	89.9 (123)	88.1 (123)	88.0 (113)	83.5 (118)	#N/A (0)	#N/A (0)	#N/A (0)
	B38M		Average Count	91.6 (2)	88.3 (2)	90.7 (2)	84.2 (2)	84.4 (2)	85.1 (2)	83.2 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	B738		Average Count	98.5 (994)	94.9 (962)	97.1 (981)	90.2 (979)	89.7 (965)	90.4 (891)	86.7 (939)	96.3 (5)	88.6 (7)	81.0 (4)
Delta	A220		Average Count	88.1 (454)	85.4 (444)	87.1 (448)	80.8 (403)	79.3 (251)	80.1 (307)	79.7 (17)	#N/A (0)	80.1 (1)	#N/A (0)
	A319		Average Count	96.2 (63)	92.7 (63)	95.7 (63)	89.3 (63)	87.6 (62)	87.9 (57)	82.8 (59)	95.0 (1)	87.7 (1)	#N/A (0)
	B752		Average Count	96.4 (142)	93.1 (139)	96.0 (141)	89.0 (143)	87.8 (144)	88.3 (132)	83.5 (136)	94.9 (4)	85.5 (3)	81.1 (1)
FedEx	A306		Average Count	96.7 (64)	93.9 (64)	94.4 (63)	89.1 (64)	88.4 (64)	89.7 (61)	85.7 (63)	#N/A (0)	#N/A (0)	#N/A (0)
Frontier Airlines	A20N		Average Count	88.2 (168)	85.3 (167)	87.6 (166)	81.9 (152)	79.8 (109)	82.1 (149)	79.0 (44)	81.1 (1)	#N/A (0)	#N/A (0)
	A319		Average Count	94.3 (22)	91.0 (22)	92.8 (21)	87.4 (22)	86.0 (21)	87.7 (21)	84.2 (21)	#N/A (0)	#N/A (0)	#N/A (0)
	A320		Average Count	94.7 (36)	91.6 (34)	(35)	86.6 (36)	84.9 (36)	86.9 (34)	83.8 (35)	#N/A (0)	#N/A (0)	#N/A (0)
Horizon Air	E175		Average Count	92.6 (521)	89.1 (508)	90.3 (503)	85.6 (514)	84.8 (518)	86.9 (484)	83.4 (489)	#N/A (0)	#N/A (0)	#N/A (0)
Southwest	B38M		Average Count	90.0 (47)	86.5 (45)	88.3 (48)	80.9 (44)	81.7 (40)	83.7 (46)	80.1 (27)	#N/A (0)	#N/A (0)	#N/A (0)
	B737		Average Count	<mark>93.2</mark> (1361)	<mark>89.9</mark> (1349)	<mark>91.0</mark> (1328)	85.6 <mark>(1347</mark>)	<mark>85.7</mark> (1342)	<mark>86.6</mark> (1234)	<mark>83.3</mark> (1270)	<mark>90.6</mark> (6)	#N/A (0)	#N/A (0)
	B738		Average Count	93.0 (410)	89.8 (404)	(399)	84.6 (408)		85.8 (381)	(379)	#N/A (0)	#N/A (0)	#N/A (0)
Spirit	A20N		Average Count	88.1 (64)	85.1 (61)	87.9 (60)	82.4 (62)	80.7 (50)	82.1 (59)	78.8 (23)	#N/A (0)	#N/A (0)	#N/A (0)
	A320		Average Count	91.5 (41)	88.8 (41)	(39)	85.1 (39)	83.4 (38)	84.9 (37)	81.0 (27)	#N/A (0)	#N/A (0)	#N/A (0)
Sun Country Airlines	B737		Average Count	95.6 (25)	92.1 (26)	95.1 (26)	89.9 (25)	89.4 (24)	89.8 (25)	84.7 (26)	#N/A (0)	#N/A (0)	#N/A (0)
United	A319		Average Count	94.5 (144)	90.8 (137)	(139)	86.9 (142)	(139)	86.6 (124)	82.2 (128)	#N/A (0)	#N/A (0)	#N/A (0)
	A320		Average Count	95.3 (48)	92.0 (46)	(48)	86.9 (48)	(45)	86.5 (43)	82.3 (47)	91.8 (1)	#N/A (0)	#N/A (0)
	B737		Average Count	96.7 (198)	92.6 (193)	96.6 (191)	90.6 (193)	90.3 (195)	90.8 (175)	86.0 (188)	95.5 (1)	88.0 (2)	82.1 (2)
	B738		Average Count	98.8 (210)	94.8 (202)	(211)	90.2 (208)	89.9 (206)	90.3 (184)	86.7 (200)	93.5 (2)	89.2 (2)	81.2 (1)
UPS	B752	51	Average Count	95.0 (50)	92.3 (50)	93.4 (51)	87.1 (51)	86.7 (51)	87.6 (48)	82.3 (49)	#N/A (0)	#N/A (0)	#N/A (0)

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TABLE 7 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commercial Class E April - June 2021

Carrier	AC Type	# Deps						NMS	Site				
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
SkyWest Coml.	E175		Average Count	90.7 (508)				-		-	87.4 (2)		#N/A (0)
Southwest	B38M		Average Count	88.6 (83)			-	-		79.6 (49)			#N/A (0)
	B737		Average Count	91.6 (1014)		89.8 (990)		-	85.7 (941)	82.2 (963)	-		81.7 (2)
	B738		Average Count	91.8 (728)						82.6 (707)			#N/A (0)

TABLE 8 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commuter April - June 2021

Carrier	AC Type	# Deps						NMS	Site				
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delux Public Charters	E135		Average Count	85.3 (499)	82.7 (488)	86.1 (488)	80.1 (389)	78.6 (100)	80.0 (323)	79.5 (1)	#N/A (0)		#N/A (0)
	E145		Average Count	85.6 (98)	83.2 (94)		79.7 (74)	78.5 (18)	79.8 (67)	#N/A (0)	82.9 (1)	#N/A (0)	#N/A (0)
SkyWest	CRJ7		Average Count	87.7 (53)	84.6 (50)		80.4 (30)	80.8 (40)	82.2 (52)	80.3 (45)	#N/A (0)	#N/A (0)	#N/A (0)
	E175		Average Count	90.5 (36)	87.4 (35)		85.6 (33)	84.3 (34)	85.8 (29)	83.2 (33)	#N/A (0)	#N/A (0)	#N/A (0)

TABLE 8-GA MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS General Aviation April - June 2021

Carrier	АС Туре	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
General Aviation	Jet	5509	Average	88.3	85.3	89.3	83.0	82.4	83.7	81.7	85.3	81.6	79.5
			Count	(5258)	(4514)	(5094)	(3207)	(2380)	(3193)	(1180)	(22)	(8)	(2)

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TABLE 9 AIR CARRIER OPERATIONAL HISTORY

Carrier		AC Type			Year		
			2017	2018	2019	2020	2021
Alaska Air	AS	A319		64	244	314	
		A320		262	3,403	1,733	2,337
		B734	24				
		B737	1,233	384	160	14	10
		B738	6,420	8.260	5.247	767	110
Allegiant	G4	A319					482
		A320					162
American	AA	A21N			2	2	64
		A319	332	722	432	474	204
		A320	266	78	634	488	337
		A321	56	4	214	571	502
		B38M		•		• • •	4
		B738	11,556	11,457	10,972	5,201	3,195
		B752	4	4	36	0,201	01100
Compass	CP	E170	78				
Compute	01	E175	2,726	3,188	3,150	656	
Delta	DL	A220	2,120	0,100	851	1,954	1,673
Delta	DL	A223			001	1,004	1,070
		A319	2,053	1,979	1,987	828	293
		A320	94	1,373	11	8	200
		B712	3,267	3,379	2,495	0	•
		B737	146	188	2,433	24	
		B738	40	180	40	24	
		B739	40	10	40	2	
		B752	2,137	∠ 2,889	2,889	1,065	583
		MD90	2,137	2,009	2,009	1,005	505
			FOG	∠ 508	510	512	240
FedEx	FM	A306	506				248
Frontier Airlines	F9	A20N*	250	600	900	550	511
		A319	356	190	100	2	80
		A320	628	654	428	392	145
Llavinava Aiv	<u></u>	A32N*	438	700	10		
Horizon Air	QX	DH8D	1,456	728	12	0.000	4 007
	00	E175	339	2,716	4,257	2,986	1,807
SkyWest Coml.	SC	CRJ9	1,440	6	7 000	2	4.044
		E175	4.761	6.960	7.686	3.535	1.814
Southwest	WN	B38M	2	14	10	44.000	265
		B737	35.971	32.380	29.360	14.268	7.401
0.1.11		B738	58	64	134	3,780	5,315
Spirit	NK	A20N*				180	413
		A320				19	161
Sun Country Airline		B737			1 0 1 0		52
United	UA	A319	1,470	999	1,216	590	453
		A320	3,957	3,927	3,151	1,227	306
		B737	4,044	2,987	2,816	999	584
		B738	3,302	5,154	5,627	2,645	912
		B752	2	4			
UPS	5X	A306	45	22	12	18	
		B752	369	394	404	404	200
WestJet	WS	B736	30	10	58	34	
		B737	644	666	618	126	
Total			90,250	91,875	90,074	46,370	30,628

*In 2018, the code for the Airbus A320neo was changed from A32N to A20N.

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Aircraft		Year								
	2017	2018	2019	2020	2021					
A20N*		600	900	730	924					
A21N			2	2	64					
A220			851	1,954	1,673					
A223					4					
A306	551	530	522	530	248					
A319	4,211	3,954	3,979	2,208	1,512					
A320	4,945	4,933	7,627	3,867	3,449					
A321	56	4	214	571	502					
A32N*	438									
B38M	2	14	10		269					
B712	3,267	3,379	2,495							
B734	24									
B736	30	10	58	34						
B737	42,038	36,605	32,962	15,431	8,047					
B738	21,376	24,953	22,020	12,395	9,532					
B739		2								
B752	2,512	3,291	3,329	1,469	783					
CRJ9	1,440	6		2						
DH8D	1,456	728	12							
E170	78									
E175	7,826	12,864	15,093	7,177	3,621					
MD90		2								
Total	90,250	91,875	90,074	46,370	30,628					

TABLE 10 AIRCRAFT OPERATIONAL HISTORY

*In 2018, the code for the Airbus A320neo was changed from A32N to A20N.

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TABLE 11 AIR CARRIER AVERAGE DAILY DEPARTURE HISTORY

Carrier		AC Type			Year		
			2017	2018	2019	2020	2021
Alaska Air	AS	A319		.088	.334	.432	
		A320		.359	4.660	2.363	3.200
		B734	.033				
		B737	1.693	.526	.219	.022	.014
		B738	8.789	11.315	7.189	1.046	.151
Allegiant	G4	A319					.660
-		A320					.222
American	AA	A21N			.003	.003	.088
		A319	.455	.989	.592	.648	.274
		A320	.364	.107	.868	.664	.471
		A321	.077	.005	.293	.779	.685
		B38M					.005
		B738	15.827	15.696	15.030	7.107	4.375
		B752	.005	.005	.049		
Compass	CP	E170	.107				
•		E175	3.734	4.367	4.315	.896	
Delta	DL	A220	0.1 0 1		1.164	2.667	2.293
Delta	DL	A223			1.101	2.001	.005
		A319	2.811	2.712	2.723	1.131	.403
		A320	.129	.016	.014	.014	. 100
		B712	4.471	4.627	3.419	.011	
		B737	.200	.258	.011	.033	
		B738	.055	.025	.055	.003	
		B739	.000	.023	.000	.003	
		B752	2.926	3.959	3.956	1.454	.797
		MD90	2.920	.003	3.930	1.434	.191
FedEx	FM	A306	.693	.696	.699	.699	.340
Frontier Airlines	F9	A300 A20N*	.093	.822	1.233	.751	.699
FIOHLIEF AIHINES	19	A319	.488	.260	.137	.003	.110
		A319 A320	.400	.200	.586	.536	.200
		A320 A32N*	.600	.090	.000	.550	.200
Llaniman Ain	01	-		007	040		
Horizon Air	QX	DH8D	1.995	.997	.016	4.070	0.474
	SC	E175 CRJ9	.466 1.975	3.721	5.830	4.079 .003	2.474
SkyWest Coml.	30			.008	40.500	4.833	0.405
Couthurset	14/61	E175	6.523	9.534	10.529	4.833	2.485
Southwest	WN	B38M	.003	.019	.014	40.407	.367
		B737	49.274	44.351	40.216	19.497	10.134
0	N.11.7	B738	.079	.088	.184	5.161	7.279
Spirit	NK	A20N*				.246	.570
	0)/	A320				.025	.216
Sun Country Airlines	SY	B737		4 070	4 0 0 0		.071
United	UA	A319	2.014	1.373	1.666	.806	.622
		A320	5.422	5.375	4.315	1.675	.419
		B737	5.534	4.093	3.855	1.366	.800
		B738	4.526	7.058	7.712	3.612	1.247
		B752	.003	.005			
UPS	5X	A306	.060	.030	.016	.025	
		B752	.507	.540	.553	.552	.274
WestJet	WS	B736	.041	.014	.079	.046	
		B737	.882	.912	.847	.172	
Total			123.622	125.852	123.384	63.347	41.951

*In 2018, the code for the Airbus A320neo was changed from A32N to A20N.

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АС Туре	Make	Model/Series
A20N	Airbus	320-200 Neo
A220	Airbus	220-100
A223	Airbus	220-300
A306	Airbus	300-600
A310	Airbus	310-200
A319	Airbus	319
A320	Airbus	320
A32N	Airbus	320-200 Neo
B38M	Boeing	737-800 Max
A321	Airbus	321
A21N	Airbus	321 Neo
B712	Boeing	717-200
B734	Boeing	737-400
B736	Boeing	737-600
B737	Boeing	737-700
B738	Boeing	737-800
B739	Boeing	737-900
B752	Boeing	757-200
CRJ7	Canadair Regional Jet	700
CRJ9	Canadair Regional Jet	900
DH8D	Bombardier	Dash 8
E135	Embraer	135
E145	Embraer	145
E170	Embraer	170
E175	Embraer	175
MD90	McDonnell Douglas	90

TABLE 12 AIRCRAFT Glossary

QUARTERLY NOISE MEETING

Date: June 22, 2021

Time: 2:00 PM

Place: Airport Commission Room/ Virtual Teleconference

ITEMS DISCUSSED

Nikolas Gaskins provided an update regarding the increase in passenger levels at JWA. Mr. Gaskins mentioned that in recent weeks, the passenger levels are nearing pre-pandemic levels (65%-70% of 2019 levels). Mr. Gaskins also provided a summary of the preliminary JWA airport statistics for May 2021.

Mr. Gaskins presented an update on commercial airline service. He stated there continues to be an increase in demand for leisure destinations at JWA as summer approaches. Mr. Gaskins added that overall business travel is down at JWA, but business travel demand could increase as pandemic-related restrictions are lifted. Mr. Gaskins discussed that Allegiant Air, Spirit Airlines, and Sun Country Airlines have all began inaugural new entrant service in the past several months. Mr. Gaskins also added that American Airlines would be adding service to New York (JFK) on July 2nd and United Airlines began service to Honolulu (HNL) on May 6th.

Mr. Gaskins advised that the Access & Noise Office will begin working through the capacity allocation for Plan Year 2022, starting in August, and expect to send the Airport's recommendations to the Board of Supervisors in November. He also mentioned the Airport's ability to accept a new entrant for Plan Year 2022 will be dependent on capacity requests from the incumbent carriers.

Mr. Gaskins provided information highlighting the Access & Noise Office plans to consolidate and integrate ANOMS, Viewpoint, WebTrak, Detailed Noise Reports, and the ten Noise Monitoring Stations (NMS) into one contract. The contract will be sent to the Board of Supervisors for action in July.

David Asher, a resident along the approach path of JWA, asked if it was true that aircraft arriving into JWA had to be higher than a minimum of 1,000 ft. according to FAA regulations. Mr. Gaskins clarified that although aircraft have to fly above a minimum of 1,000 ft. over congested areas, this does not apply to aircraft that are taking off or landing.

Kellie Cookson, a resident of East Orange, discussed her issues with the amount of aircraft noise and the frequency of aircraft since before Covid-19. She asked if the arrival aircraft were abiding to the elevation limitations and if the curfew regulations were being enforced at JWA. Mr. Gaskins explained that the FAA has regulatory control of altitudes & flight paths, and the concentration of flights is a result of the FAA SoCal Metroplex. Mr. Gaskins reassured that JWA enforces the Settlement Agreement and curfew regulations.

Newport Beach Resident, Dennis Bress, had questions related to the Class E service, specifically, if the airlines are held accountable for exceeding the Class E Single Event Noise limits at JWA. Mr. Gaskins explained the Airport enforces what is outlined in the Access Plan and Settlement Agreement, and no commercial airline has exceeded the noise limits since 2004.

QUARTERLY NOISE MEETING

Mr. Bress also expressed concerns regarding as what he described as the high rate of velocity of some general aviation departures, and if the Airport could provide a report that includes the velocity of each departure at JWA. Mr. Gaskins explained the Airport cannot enforce aircraft velocity limits.

Newport Beach resident, Dr. Jim Mosher, asked how the passenger information in the JWA monthly Statistics Report is calculated. Mr. Gaskins stated the Statistics Report reflects both commercial and commuter carrier passengers, and not general aviation or military. Dr.. Mosher also requested that the Quarterly Noise Report be published in a more timely fashion. Mr. Gaskins responded by stating that once our office is fully staffed, the Airport should be able to publish the Quarterly Report two weeks before the Quarterly Noise Meeting. Dr. Mosher also inquired if the CNEL data from the Quarterly Noise Report could be posted on a daily basis. Mr. Gaskins emphasized that the Noise Office has to go through the noise data daily to analyze events, which requires a delay in publishing reports and data. Lastly, Dr. Mosher expressed his concern with flights that operate under the 65 dB threshold that are not included in the CNEL data, thus making the CNEL data inaccurate. Mr. Gaskins responded by stating that operations that are under the 65 dB threshold do not fall under the Title 21 guidelines, and that the information is accurate under the Title 21 requirements.

Michael Venti, a resident of the North Tustin area, had concerns with what he described as an annoying noise that is coming from the Airbus A220 aircraft's engines. Mr. Gaskins stated the Airport is aware of the distinct noise from the Airbus A220, and that Airbus is aware of the issue and is working with the engine manufacture to identify a solution. Justin Cook, from HMMH, added that the tonal frequencies of the vortex generator is currently being retrofitted to mitigate the issue. Mr. Venti also suggested for a bank angle study to be conducted on the approach path at JWA to disperse the aircraft noise to other areas of the community. Mr. Venti stated that he works for NASA and can provide the Noise Office with new research papers from studies that NASA, Boeing, and Airbus are conducting. Mr. Gaskins said he could give Mr. Venti the information to contact Mel Beale, Airport Working Group President. Lastly, Mr. Venti asked if the monetary penalties from curfew violations are paid to the County, but does not know where the monies go from there.

Patricia Maas, a resident of East Orange, echoed the same concerns with the amount of aircraft noise and the frequency of aircraft on the approach path over the past several years. Ms. Mass also asked if the FAA have a contact to reach since the Airport does not have control of the flight paths. Mr. Gaskins responded by stating the FAA has recently created a noise portal on their website to address community concerns with aircraft noise, but not sure how community concerns are addressed.

Matt, a resident of the City of Orange, had concerns that the frequency of flights on the arrival path have increased, and that the noise is louder than before Covid started. Mr. Gaskins explained that the frequency of aircraft operations at JWA in 2019 was at its highest level on record. Mr. Gaskins added that there was a drastic decrease of operations in 2020 due to Covid, however, within the past several months there has been significant month-to-month increases in operations and these factors could contribute to the perception of increased aircraft noise.

QUARTERLY NOISE MEETING

Laurie Sherwood, a resident of North Tustin, expressed that the aircraft noise is louder since Metroplex was implemented and increasingly louder within the past year. Ms. Sherwood asked if there was a way to get the daily noise readings from NMS 10N and what are the noise limits. Mr. Gaskins replied by referring Ms. Sherwood to the Daily Noise Reports available on the JWA website. Mr. Gaskins explained that there are no noise limits on the approach path for commercial aircraft, but General Aviation has a nighttime noise limit of 86.9 dB at all three NMS on the approach path. Ms. Sherwood inquired if anybody from the City of Tustin is involved with the aircraft noise concerns with the Airport. Mr. Gaskins informed Ms. Sherwood that complaint information is sent to the City of Tustin at their request on a quarterly basis, and the information is then presented to their City Council.

QUARTERLY NOISE MEETING ROSTER

June 22, 2021

NAME	ORGANIZATION
Joe August	Resident – Newport Beach
Dennis Bress	Resident – Newport Beach
Jim Mosher	Resident - Newport Beach
Kellie Cookson	Resident – East Orange / Tustin
Louisa Alvarez	Unknown
Lisa Champion	Unknown
Michael Venti	Resident – North Tustin
Robert Vusich	Unknown
Tracy Ettinger	Unknown
Patricia Maas	Resident - East Orange / Tustin
David Asher	Resident – Approach Path
Laurie Sherwood	Resident – North Tustin
Justin Cook	НММН
Anthony Cangey	John Wayne Airport
Beatrice Siercke	John Wayne Airport
Cristina Magaña	John Wayne Airport
Nikolas Gaskins	John Wayne Airport
Call-in Line_2	Unknown
Call-in Line_3	Unknown
Call-in Line_4	Unknown
Call-in Line_5	Unknown
Call-in Line_6	Unknown
Call-in Line_7	Unknown
Call-in Line_8	Unknown

QUARTERLY NOISE MEETING ROSTER

June 22, 2021

NAME	ORGANIZATION
Call-in Line_9	Unknown
Call-in Line_10	Unknown
Call-in Line_11	Unknown
Call-in Line_12	Unknown
Call-in Line_13 (Matt)	Resident – Orange
Call-in Line_14	Unknown
Call-in Line_15	Unknown
Call-in Line_16	Unknown

SUMMARY OF STATISTICAL INFORMATION FOR CALIFORNIA DEPARTMENT OF TRANSPORTATION

1. Size of Noise Impact Area as defined in the Noise Standards (California Code of Regulations, Title 21, chapter 2.5, Subchapter 6):

0.0001 Sq. Mi.

- Estimated Number of dwelling units included in the Noise Impact Area as defined in the Noise Standards:
 2
- 3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:

5 (Based on 2.5 People/Dwelling Unit)

4. Identification of aircraft type having highest takeoff noise level operating at this airport together with estimated number of operations by this aircraft type during the calendar quarter reporting period:

A321 – 263 (Arrivals+Departures)

- 5. Total number of aircraft operations during the calendar quarter:
- 6. Number of Air Carrier operations during the calendar quarter: (Not mandatory)
- Percentage of Air Carrier operations by aircraft certified under Federal Aviation Regulation (FAR) Part 36, Stage III: (Not mandatory)

8. Estimated number of operations by General Aviation aircraft during the calendar quarter: (Not mandatory)

9. Estimated number of operations by Military aircraft during the calendar quarter: (Not mandatory)

103

83,542

18,858

100%

64,581