

## **INTRODUCTION**

This is the 200<sup>th</sup> 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 (January 1, 2022 - December 31, 2022). 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 October – December 2022

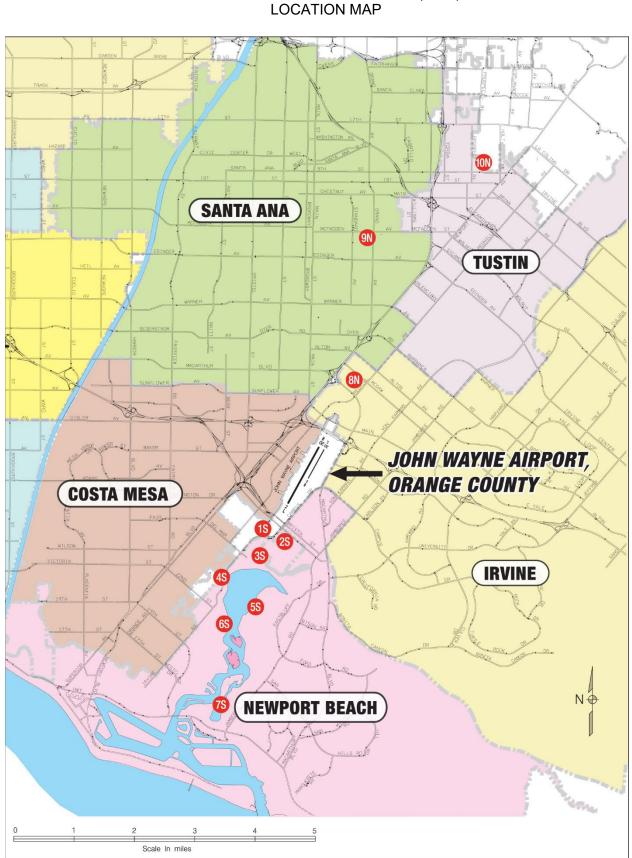
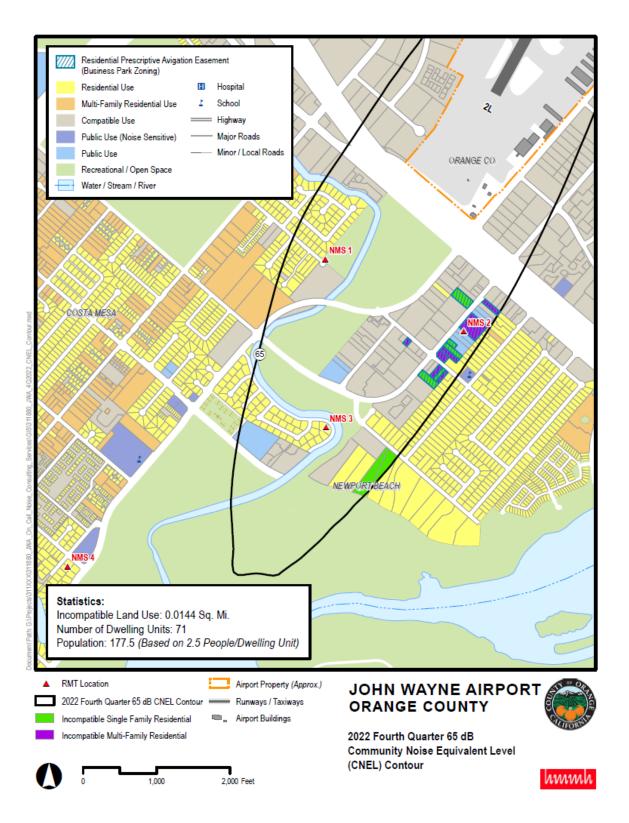


FIGURE 1 NOISE MONITORING STATIONS (NMS) LOCATION MAP

## FIGURE 2 2022 FOURTH QUARTER



## 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
October - December 2022

	•				
Period	Carrie	ers	GA Jet (1)	Total	Average Daily
	Jet	Prop		Operations (2)	Jet Operations
October	9,033	0	4,057	26,005	422
November	8,755	0	3,534	24,215	410
December	8,230	0	3,564	21,704	380
Fourth Quarter	26,018	0	11,155	71,924	404
Twelve Months 01/01/22 - 12/31/22	101,138	0	47,094	303,970	406

<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 contaminated data and/or 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

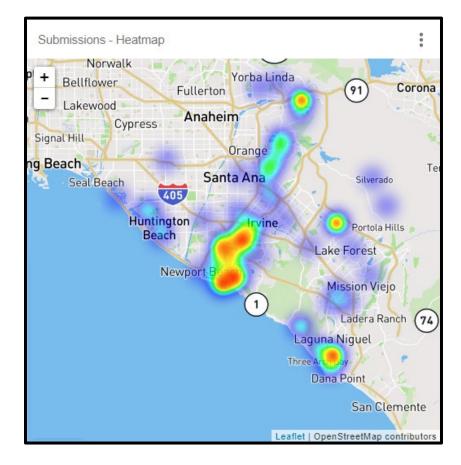
Four hundred eighteen residences in the Santa Ana Heights area have been sound attenuated and an avigation easement reserved through the County's Acoustical Insulation Program, which closed in December 2009. The County has also acquired 46 residences as part of the Purchase Assurance Program, many of 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. Seventy-one dwelling units in Santa Ana Heights remain in the "Noise Impacted Area" (within 65 dB CNEL contour).

### COMPLAINT TOTALS (October 1, 2022 - December 31, 2022)

The Airport's Access and Noise Office receives and investigates noise complaints from local citizens and all other sources. From October 1, 2022, through December 31, 2022, the Office received 106,481 complaints from local citizens. This is a 27.9% increase from the 83,266 complaints received last quarter. It is a 23.7% decrease from the 139,590 complaints received during the same quarter last year. Figure 3 shows the distribution of the quarterly complaints from local communities.

Quarterly Report October – December 2022

FIGURE 3 REPORTED NOISE EVENTS BY COMMUNITY



Notes:

- Anaheim 43,058 submissions from 7 different points of contact
- Newport Beach 30,273 submissions from 29 different points of contact
- Irvine 27,691 submissions from 7 different points of contact
- Laguna Niguel 2,360 submissions from 4 different points of contact
- Costa Mesa 931 submissions from 7 different points of contact
- Laguna Beach 668 submissions from 1 point of contact
- Tustin 561 submissions from 3 different points of contact
- Other 380 submissions from 25 different points of contact
- Huntington Beach 366 submissions from 5 different points of contact
- Dana Point 193 submissions from 5 different points of contact
- 7.6% of submissions were from a complaint subscription service.

# TABLE 2 LONG TERM MEASURED LEVELS Aircraft CNEL from 01/01/22 through 12/31/22 Values in dB at Each Site

Period	NMS Site										
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N	
Jan 2022	66.5	65.0	66.0	59.3	58.4	60.0	55.8	66.5	43.0	55.8	
# Days Feb 2022	31	31 65.3	31 66.0	30 58.5	31 58.1	31 60.0	29 55.5	31 66.6	22 41.0	29 55.3	
Feb 2022 # Days	66.5 28	65.3 28	06.0 28	58.5 28	58.1 28	60.0 28	55.5 28	00.0 28	41.0	55.3 28	
Mar 2022	67.9	66.5	67.0	60.0	59.5	60.4	56.9	68.0	44.2	57.6	
# Days	31	31	31	31	31	31	31	31	26	31	
Q-1 2022 # Days	67.0 90	65.6 90	66.4 90	59.3 89	58.7 90	60.1 90	56.1 88	67.1 90	43.0 70	56.4 88	
# Days Apr 2022	67.6	66.3	66.8	59.8	59.4	60.1	56.7	68.1	42.8	57.5	
# Days	30	30	30	30 30	30	30	30.7	29	42.0	37.5	
May 2022	68.0	66.5	67.1	60.5	59.6	60.2	57.1	68.3	41.9	57.9	
# Days	31	31	31	31	31	31	31	31	23	31	
Jun 2022	68.1	66.8	67.3	60.0	58.9	60.0	56.2	68.8	40.8	57.5	
# Days	30	28	30	30	30	30	30	30	21	30	
Q-2 2022 # Days	67.9 91	66.5 89	67.1 91	60.1 91	59.3 91	60.1 91	56.7 91	68.4 90	42.0 69	57.7 91	
Jul 2022	68.0	66.7	67.1	60.1	59.3	60.4	56.1	68.7	41.9	57.4	
# Days	31	31	31	31	31	31	31	30	26	31	
Aug 2022	68.0	66.9	67.2	59.8	59.2	60.2	56.0	68.3	41.5	57.2	
# Days Sep 2022	31 67.9	31 66.9	31 67.1	26 59.2	31 59.0	31 60.2	31 56.3	31 68.4	26 43.1	31 57.2	
# Days	30	30	30	30	30	30	30	27	21	30	
Q-3 2022	68.0	66.8	67.1	59.7	59.2	60.3	56.1	68.5	42.2	57.3	
# Days	92	92	92	87	92	92	92	88	73	92	
Oct 2022 # Days	68.4 31	67.6 31	67.4 31	60.0 31	59.7 31	60.7 31	56.6 31	68.5 31	44.3 24	57.8 31	
# Days Nov 2022	67.7	66.6	66.8	59.8	58.4	60.6	56.5	68.2	41.7	57.7	
# Days	30	30	30	29	27	30	29	29	26	28	
Dec 2022	68.2	66.9	67.4	60.3	59.8	60.7	57.4	67.4	42.8	58.3	
# Days	31	31	20	31	31	30	31	27	17	30	
Q-4 2022 # Days	68.1 92	67.1 92	67.2 81	60.1 91	59.4 89	60.6 91	56.9 91	68.1 87	43.1 67	57.9 89	
Q-1 2022 th	ru Q-4 202	22									
Total	67.8	66.6	66.9	59.8	59.2	60.3	56.5	68.0	42.6	57.4	
# Days	365	363	354	358	362	364	362	355	279	360	
Q-4 2021 th		· ·									
Total # Davo	67.6 365	66.3 363	66.9 365	59.7 359	59.1 365	60.3 365	56.4 362	67.9 359	42.4 286	57.2 350	
# Days				359	305	305	302	359	200	350	
Change fro											
	0.2	0.3	0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.2	

Quarterly Report October – December 2022

TABLE 3
DAILY CNEL VALUES AT EACH MONITOR STATION
October 2022

Date			-	-	NMS	Site	-	-		
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	67.6	66.9	66.5	59.6	59.2	59.9	55.1	66.9	39.0	56.9
2	68.9	68.3	67.9	60.6	60.9	61.6	58.1	69.3	41.7	59.3
3	68.7	68.1	67.9	60.2	60.7	61.5	58.1	68.5	49.1	58.0
4	67.9	67.1	66.9	59.2	59.2	60.2	56.8	67.8	46.4	57.0
5	68.1	67.6	67.2	58.9	59.0	60.1	55.7	68.1	*#N/A	57.3
6	68.8	67.3	67.6	58.6	59.2	60.2	54.3	69.2	*#N/A	57.8
7	68.3	67.7	67.3	60.2	59.8	60.8	56.8	69.4	47.6	58.7
8	67.4	66.6	66.3	59.0	58.7	59.6	56.0	66.8	*#N/A	56.0
9	68.9	68.2	68.0	60.3	59.9	60.9	57.1	69.2	46.1	58.4
10	69.0	68.2	68.2	60.7	60.3	61.6	57.4	69.0	*#N/A	58.4
11	68.8	68.1	68.0	60.5	60.2	61.2	56.9	68.5	42.5	58.2
12	68.8	68.2	68.1	60.5	60.4	61.6	57.8	68.9	39.7	58.5
13	69.1	68.3	68.0	59.8	59.3	60.2	54.5	69.4	*#N/A	58.0
14	69.3	68.2	68.1	61.2	60.2	61.3	56.3	69.3	43.9	59.3
15	68.5	67.2	68.8	60.1	59.4	61.7	56.9	67.8	30.5	57.4
16	69.0	68.3	68.3	60.6	61.0	61.6	58.1	69.1	48.4	58.4
17	68.9	68.3	68.0	59.6	60.6	61.3	57.6	69.1	41.3	58.4
18	68.4	67.6	67.1	58.8	59.4	59.9	56.7	67.9	43.9	56.6
19	67.8	67.1	66.7	59.2	58.4	59.2	55.6	67.4	39.7	56.4
20	68.2	67.7	67.0	59.4	59.1	59.9	55.6	68.6	*#N/A	57.7
21	69.0	67.9	68.0	61.4	60.3	61.8	56.8	69.6	46.3	58.8
22	67.9	66.9	66.6	60.2	59.4	60.2	55.8	67.9	38.9	57.8
23	68.7	67.8	67.5	60.8	60.3	61.2	56.6	69.2	41.6	58.9
24	66.0	65.6	65.7	57.1	57.3	59.9	54.1	67.6	40.1	56.3
25	67.9	66.9	66.9	60.1	59.1	58.9	55.9	68.2	46.8	57.5
26	68.4	67.6	67.2	60.8	60.1	60.9	57.3	68.4	46.3	57.9
27	69.1	67.5	68.0	61.1	60.4	61.4	57.5	68.8	31.6	58.2
28	68.6	68.0	67.5	60.7	59.9	61.0	57.2	68.9	43.9	58.5
29	67.2	66.6	66.4	59.4	58.9	59.4	55.9	66.2	*#N/A	55.1
30	68.2	67.7	66.9	59.5	58.9	59.6	55.8	68.0	38.6	56.6
31	67.9	66.9	66.5	59.9	58.6	59.6	55.7	67.8	45.2	57.2
Days	31	31	31	31	31	31	31	31	24	31
En. Avg	68.4	67.6	67.4	60.0	59.7	60.7	56.6	68.5	44.3	57.8

#N/A indicates insufficient data.

\*#N/A indicates contaminated data and/or no aircraft-related noise events.

TABLE 4
DAILY CNEL VALUES AT EACH MONITOR STATION
November 2022

Date	NMS Site												
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N			
1	68.1	66.5	66.7	61.0	59.1	60.4	57.0	68.8	42.1	58.6			
2	67.6	67.1	66.3	59.7	60.2	60.4	57.5	68.9	*#N/A	58.5			
3	68.4	68.2	67.2	59.9	57.2	61.1	58.1	68.9	33.3	58.9			
4	67.9	66.5	67.1	59.9	58.5	60.4	56.0	68.9	44.5	58.3			
5	67.3	66.8	66.0	59.2	57.8	59.5	56.2	66.0	35.8	55.8			
6	68.4	67.5	67.2	60.5	59.2	60.9	57.5	69.2	39.4	59.0			
7	68.7	67.6	67.2	61.2	58.5	61.1	58.2	69.4	45.6	59.5			
8	67.7	66.2	65.9	60.1	58.9	59.5	58.4	*#N/A	42.4	60.0			
9	68.5	67.4	67.3	60.8	58.1	60.8	57.9	53.8	41.9	58.9			
10	68.8	67.8	67.4	60.7	61.7	60.8	57.7	71.7	39.0	57.9			
11	68.0	67.1	66.7	59.8	*#N/A	60.0	56.6	69.3	34.8	57.0			
12	67.5	66.7	66.3	59.7	*#N/A	59.5	56.0	69.5	43.5	57.0			
13	69.0	67.7	67.7	60.8	*#N/A	61.2	57.8	70.9	29.9	58.7			
14	68.8	67.9	67.5	60.6	58.0	60.8	57.4	70.3	*#N/A	58.5			
15	67.3	66.1	68.3	58.6	58.7	63.3	55.6	66.3	43.0	53.3			
16	56.6	54.4	66.6	#N/A	43.9	62.6	#N/A	63.6	31.9	*#N/A			
17	67.5	66.5	66.5	58.7	58.2	59.0	55.0	70.5	28.3	56.7			
18	68.9	67.5	67.6	60.6	59.5	60.8	56.7	70.1	37.6	57.2			
19	56.5	53.6	65.9	33.8	44.3	61.9	39.7	63.7	40.8	32.9			
20	66.1	65.1	65.4	56.7	56.8	58.7	53.8	68.3	30.2	53.3			
21	67.6	66.8	66.4	58.4	58.0	58.7	54.9	68.3	32.8	54.7			
22	68.2	67.4	66.9	59.4	58.9	59.5	55.6	67.7	43.9	55.4			
23	68.8	67.8	67.5	59.9	58.9	59.8	55.7	66.8	29.6	56.0			
24	61.1	58.9	64.7	51.3	49.3	59.7	45.0	59.2	*#N/A	*#N/A			
25	65.3	64.4	64.6	56.1	56.0	58.1	53.0	64.7	34.2	53.4			
26	67.7	66.4	66.3	59.7	58.3	59.4	54.0	66.5	*#N/A	57.2			
27	69.1	68.2	68.1	61.4	60.3	61.4	57.3	68.3	49.0	59.2			
28	68.9	67.4	67.5	61.8	60.3	61.6	58.0	67.7	39.8	59.7			
29	68.1	66.7	66.4	60.8	59.4	60.8	57.8	67.7	46.4	59.2			
30	67.7	66.5	66.3	61.0	59.6	60.8	58.3	66.8	42.4	58.7			
Days	30	30	30	29	27	30	29	29	26	28			
En. Avg	67.7	66.6	66.8	59.8	58.4	60.6	56.5	68.2	41.7	57.7			

#N/A indicates insufficient data.

\*#N/A indicates contaminated data and/or no aircraft-related noise events.

TABLE 5
DAILY CNEL VALUES AT EACH MONITOR STATION
December 2022

Date		-	-	-	NMS	Site		-		
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	68.1	67.1	66.7	61.1	60.0	61.3	58.6	67.2	40.8	59.2
2	67.2	66.4	66.9	59.7	59.3	61.7	56.8	67.5	42.7	58.8
3	67.3	66.2	65.9	59.8	58.9	59.8	56.3	65.4	*#N/A	57.2
4	68.5	67.3	67.4	60.5	60.1	61.0	57.7	68.0	34.0	59.5
5	68.5	67.2	67.5	60.7	60.6	61.2	58.0	67.3	33.5	59.2
6	68.1	66.4	66.8	60.9	60.1	60.8	58.2	66.7	*#N/A	59.2
7	68.2	67.0	67.1	60.7	60.4	60.7	58.1	66.7	33.0	59.0
8	68.9	68.0	67.8	61.0	61.3	61.8	58.7	67.1	43.5	59.3
9	68.8	67.9	67.9	61.3	60.9	61.6	58.3	67.2	28.4	58.9
10	67.9	66.4	66.7	60.4	59.5	60.2	57.0	66.0	42.1	57.6
11	68.5	67.6	67.0	60.1	61.3	61.1	58.7	67.5	41.0	59.7
12	69.2	67.4	67.7	61.6	61.0	61.5	59.0	67.3	48.3	59.5
13	68.2	66.7	67.0	60.8	60.4	60.8	58.2	66.1	46.2	58.4
14	68.1	67.2	67.1	60.6	60.6	61.0	58.0	66.2	45.2	57.8
15	68.9	67.4	#N/A	61.3	61.1	61.7	58.2	67.2	42.1	58.7
16	67.9	66.9	#N/A	59.6	59.3	60.8	56.3	*#N/A	44.6	56.1
17	66.6	65.3	#N/A	58.3	57.7	58.5	54.9	*#N/A	43.3	55.9
18	68.3	67.0	#N/A	60.1	59.4	60.0	56.8	*#N/A	41.2	58.4
19	68.5	67.4	#N/A	60.5	60.1	60.7	57.4	*#N/A	41.2	57.5
20	68.3	67.2	#N/A	60.2	60.0	60.4	57.0	67.6	*#N/A	57.7
21	68.0	66.4	#N/A	59.8	59.6	60.3	57.1	68.3	#N/A	57.3
22	68.5	67.2	69.0	60.3	59.5	60.6	56.9	68.3	#N/A	#N/A
23	68.6	67.5	#N/A	59.9	59.7	60.5	57.1	68.0	#N/A	60.8
24	66.2	65.2	#N/A	57.8	57.2	58.1	54.0	65.8	#N/A	54.6
25	65.7	64.8	#N/A	57.4	56.7	57.5	53.7	66.0	#N/A	54.9
26	67.6	66.4	#N/A	59.2	58.0	#N/A	54.8	67.3	#N/A	56.5
27	68.6	66.8	68.6	60.5	59.6	61.4	56.8	68.2	#N/A	58.4
28	68.8	67.2	67.9	60.9	60.1	60.8	57.8	68.1	#N/A	58.2
29	68.7	66.7	67.5	61.4	60.2	61.1	57.9	68.3	#N/A	58.3
30	69.3	67.5	68.0	61.4	60.6	61.6	58.5	69.8	#N/A	59.9
31	67.3	65.4	65.5	59.5	57.3	59.3	56.5	68.6	#N/A	55.4
Days	31	31	20	31	31	30	31	27	17	30
En. Avg	68.2	66.9	67.4	60.3	59.8	60.7	57.4	67.4	42.8	58.3

#N/A indicates insufficient data.

\*#N/A indicates contaminated data and/or no aircraft-related noise events.

Quarterly Report October – December 2022

#### TABLE 6 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commercial Class A October - December 2022

Image: constraint of the second sec					OCIOL	er - Dec		022						
Sec Canada     B34     B9 Average     Q2:1     P1:6     P3:6     P3:3     P3:5	Carrier	AC Type	# Deps											
Image: constraint of the sector of														-
Namia     A200     400 Average Court     61.1     64.50     68.2     80.50     87.5     69.50     80.50	Air Canada	B38M	89											#N/A (0)
Image: biologic	Alaska	A320	490											80.3 (3)
97.8     221 Norman     08.8     07.2     96.0     89.6     89.9     00.4     87.3     93.3     00.4     77.9       Vilegiant     A19     3.3 Average     95.8     62.2     82.5     86.6     65.7     65.0     82.6     83.3     87.3     83.2     87.4     88.2     67.3     63.0 <td></td> <td>B737</td> <td>3</td> <td></td> <td>#N/A (0)</td>		B737	3											#N/A (0)
Alegiant     Alegiant     Alegiant     Count     G2     G2     G2     G2     G2     G2     G3     G30     <		B738	321	Average	98.8	97.2	96.0	89.6	89.9	90.4	87.3	93.3	90.4	79.6 (5)
A21N     Qount     (176)     (178)     (178)     (178)     (178)     (178)     (178)     (188)     (0)     (0)     (0)     (0)       A319     Qount     (8)     833     935     826     811     (77)     (87)     (97)     (	Allegiant	A319	33											#N/A (0)
Ale Numerican     Ale Numerican     Ale Numerican     Outcome (B)     Out (B)     O		A320	178						86.3 (155)					#N/A (0)
A19     OF Average     94.5     93.8     93.6     67.2     85.6     68.1     82.1     91.6     #NM     PMM       A200     15     Average     65.3     94.3     94.0     68.5     85.3     85.3     85.5     85.1     85.5     85.6     85.6     85.7     87.0     000     000     000     000     000     80.5     84.	American	A21N	9			90.4			81.2			84.1	#N/A	#N/A (0)
A320     19     Average     95.3     94.3     94.0     96.5     85.3     65.0     61.6     (16)     (10)     (10)     (10)     (10)     (16) <t< td=""><td></td><td>A319</td><td>91</td><td></td><td>94.5</td><td>93.8</td><td>93.6</td><td>87.2</td><td>85.9</td><td>86.1</td><td>82.1</td><td>91.6</td><td>#N/A</td><td>#N/A (0)</td></t<>		A319	91		94.5	93.8	93.6	87.2	85.9	86.1	82.1	91.6	#N/A	#N/A (0)
A3:1     171     Average     99.1     06.6     93.3     90.6     88.5     94.5     92.9     PMA/A     PMA/A       B3M     207     Average     92.8     92.1     92.2     14.4     (B0)     (150)     (154)     (150)     (154)     (253)     (271)     (253)     (271)     (253)     (271)     (253)     (144)     (150)     (154)     (253)     (144)     (150)     (154)     (253)     (154)     (27)     (272)     (253)     (144)     (150)     (156)     (156)     (156)     (156)     (156)     (156)     (156)     (156)     (157)     (150)     (156)     (156)     (157)     (150)     (156)     (157)     (150)     (150)     (150)     (150)     (150)     (150)     (150)     (150)     (150)     (150)     (150)     (151)     (150)     (151)     (150)     (150)     (151)     (150)     (150)     (150)     (150)     (150)     (151)     (150)     (151)     (150)     (151)		A320	19	Average	95.3	94.3	94.0	86.5	85.3	85.0	81.6	86.7	#N/A	#N/A (0)
B38M     307 Average Count     Q2     82.1     92.2     94.4     94.4     95.6     81.7     87.8     85.6     81.7     (14)     (21)     (12)     (12)     (12)     (12)     (12)     (12)     (13)     (14)     (11)     (14)     (11)     (14)     (11)     (14)     (11)     (14)     (11)     (14)     (11)     (13)     (14)     (17)     (13)     (14)     (17)     (13)     (14)     (17)     (14)     (17)     (13)     (14)     (17)     (13)     (14)     (17)     (13)     (14)     (17)     (13)     (14)     (17)     (13)     (13)     (13)     (13)     (11)		A321	171		99.1	98.6	98.3		89.1	88.5		92.9	#N/A	#N/A (0)
9738     1005 Average     9848     977     97.2     88.9     98.9     90.3     87.3     93.6     68.9     68.1       Count     (013)     (680)     (681)     (697)     (644)     (90)     (144)       Count     (74)     (72)     (63)     (67)     (51)     (56)     (6)     (2)     (9)     (0)     (0)       A223     17.4 Average     (89.7)     (89.6     (89.9)     81.1     (80.7)     (80.7)     (80.7)     (83.3)     (90.0)     (0)		B38M	307		92.8	92.1	92.2	84.4	84.4	85.6	81.7	87.8	85.8	#N/A (0)
Delta     A220     77 Average     88.9     98.7     88.6     81.0     77.6     81.5     #NA     #NA       A223     174 Average     89.7     89.6     88.9     81.7     167.0     (51)     (65)     (62)     (00)     (00)       A319     321 Average     95.9     95.1     95.2     88.7     88.6     88.0     87.7     83.3     90.2     168.0     (146)     (149)     (271)     (274)     (275)     (151)     (11)     (175)     (11)     (175)     (11)     (175)     (11)     (175)     (11)     (175)     (11)     (175)     (11)     (160)     (16)     (16)     (16)     (16)     (16)     (16)     (16)     (16)     (16)     (16)     (16)     (16)		B738	1005	Average	98.8	97.7	97.2	89.9	89.6	90.3	87.3	93.6	86.9	81.1 (14)
A223     174     Average Count     89.7     69.6     89.9     12     80.7     78.1     80.4     #NIA     #NIA       A319     221     lverage     95.9     95.1     95.2     99.1     87.6     87.7     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.3     92.1     83.6     83.0	Delta	A220	77		88.9	88.7	88.5	81.0	79.5	80.3	77.6	81.5	#N/A	#N/A (0)
A319     C21     Merage     95.9     95.1     95.2     99.1     97.7     83.3     92.1     83.3     90.1       A320     195     Average     96.6     95.6     95.6     99.4     88.0     88.0     88.0     88.0     91.6     #N/A     #N/A       B738     10     Average     98.2     97.1     97.3     89.0     88.0     87.8     85.0     91.4     #N/A     #		A223	174	Average	89.7	89.6	88.9	81.2	80.7	80.7	78.1	80.4	#N/A	#N/A (0)
A320     195 Average Count     96.6 (182)     95.9 (173)     96.4 (175)     88.0 (175)     88.0 (174)     88.0 (175)     88.0 (174)     88.0 (175)     88.0 (174)     88.0 (177)     88.0 (174)     88.0 (177)     88.0 (174)     88.0 (177)     88.0 (184)     88.0 (		A319	321	Average	95.9	95.1	95.2	89.1	87.6	87.7	83.3	92.1	83.3	80.7 (2)
B738     10     Average     98.2     97.1     07.3     88.0     88.0     87.9     65.0     91.4     #N/A     #N/A <t< td=""><td></td><td>A320</td><td>195</td><td>Average</td><td>96.6</td><td>95.8</td><td>95.9</td><td>89.4</td><td>88.0</td><td>88.0</td><td>83.9</td><td>91.6</td><td>#N/A</td><td>#N/A (0)</td></t<>		A320	195	Average	96.6	95.8	95.9	89.4	88.0	88.0	83.9	91.6	#N/A	#N/A (0)
B752     333     Average Count     96.4     95.7     95.9     88.8     87.9     88.2     84.2     93.2     84.8     80.       FedEx     A306     C2Average     (296)     (224)     (260)     (277)     (294)     (266)     (277)     (294)     (266)     (277)     (294)     (266)     (27)     (296)     (29)     (1)     (1)     (1)     (2)     (1)     (1)     (1)     (2)     (1)     (1)     (1)     (2)     (1)     (1)     (1)     (2)     (1)     (1)     (1)     (1)     (1)     (2)     (1)     (1)     (1)     (2)     (1)     (1)     (2)     (1)     (1)     (2)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (2)     (1)     (1)     (2)     (1)     (1)     (2)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)     (1)		B738	10		98.2	97.1	97.3	89.0	88.0	87.9	85.0	91.4	#N/A	#N/A (0)
FedEx     A306     62     Average Count     97.4 (60)     94.7 (60)     88.9 (60)     88.5 (60)     89.5 (60)     80.0 (60)     91.7 (60)     80.5 (57)     80.0 (60)     91.7 (60)     80.5 (59)     80.0 (2)     91.7 (10)     80.5 (11)     80.1 (10)     81.9 (22)     80.5 (22)     80.5 (23)     80.1 (21)     81.3 (20)     80.5 (22)     80.5 (23)     81.3 (20)     80.5 (23)     81.3 (20)     80.5 (23)     81.3 (20)     81.9 (20)     91.7 (10)     80.5 (22)     80.5 (23)     81.3 (20)     81.9 (20)     77.3 (20)     82.5 (23)     81.3 (20)     81.9 (23)     77.5 (23)     81.3 (23)     82.5 (23)     82.6 (23)     82.5 (23)     82.6 (24)     82.5 (25)     84.2 (24)     83.5 (25)     84.2 (24)     83.5 (25)     84.2 (25)     84.3 (25)     84.3 (25)     84.3 (25)     84.3 (25)     84.3 (24)     83.5 (25)     84.4 (24)     87.1 (20)     83.5 (23)     83.5 (24)     83.5 (24)     83.5 (24)     83.1 (24)     79.4 (24)     83.1 (24)     79.4 (24)     83.1 (24)     79.4 (25)     83.1 (24)     79.4 (25)     83.1 (24)     79.4 (25)     83.1 (24) </td <td></td> <td>B752</td> <td>333</td> <td></td> <td>96.4</td> <td>95.7</td> <td>95.9</td> <td>88.8</td> <td>87.9</td> <td>88.2</td> <td>84.2</td> <td>93.2</td> <td>84.8</td> <td>80.4 (7)</td>		B752	333		96.4	95.7	95.9	88.8	87.9	88.2	84.2	93.2	84.8	80.4 (7)
Frontier     A20N     232     Average Count     88.1     88.0     87.5     81.3     80.1     81.9     79.3     82.5     #N/A     #N/A       A320     366 Average     (219)     (209)     (191)     (204)     (137)     (193)     (72)     (8)     (0)     (0)     (0)       40720     366 Average     94.6     94.3     92.1     65.8     84.8     86.5     84.2     84.5     #N/A     #N/A       40720     Count     (62)     (60)     (54)     (64)     (63)     (59)     (5)     (1)     (0)     (0)     (0)     (0)     (0)     (0)     (1)     (0)     (0)     (1)     (0)     (1)     (0)     (1)     (0)     (1)     (0)     (0)     (1)     (0)     (1)     (0)     (1)     (0)     (1)     (0)     (0)     (1)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0)     (0) <t< td=""><td>FedEx</td><td>A306</td><td>62</td><td></td><td>97.4</td><td>96.7</td><td>94.7</td><td>88.9</td><td>88.5</td><td>89.5</td><td>86.0</td><td>91.7</td><td>80.5</td><td>80.9 (1)</td></t<>	FedEx	A306	62		97.4	96.7	94.7	88.9	88.5	89.5	86.0	91.7	80.5	80.9 (1)
A320     36     Average Count     94.6 (35)     92.1 (35)     85.8 (30)     64.2 (33)     64.2 (32)     84.5 (32)     #N/A (32)     #N/A (5)     #N/A (6)     #N/A (7)     #N/A (7) <t< td=""><td>Frontier</td><td>A20N</td><td>232</td><td></td><td></td><td>88.0</td><td></td><td></td><td></td><td>81.9</td><td></td><td>82.5</td><td></td><td>#N/A (0)</td></t<>	Frontier	A20N	232			88.0				81.9		82.5		#N/A (0)
Horizon     E175     69     Average Count     93.8     92.9     90.5     84.7     85.1     87.0     83.8     88.8     81.3     #N// (CB       Southwest     B38M     670     Average     89.9     89.3     88.1     81.1     81.1     81.9     83.5     80.2     85.6     #N/A     76.       B737     1100     Average     94.4     93.7     91.9     85.9     86.4     87.1     84.5     91.7     86.5     81.0     (100)     (9999)     (965)     (56)     (2)     (56)     (2)     (56)     (50)     (50)     (50)     (50)     (50)     (50)     (50)     (50)     (2)     (0)     (0)     (1)     (2)     (1)     (2)     (1)		A320	36			94.3			84.8	86.5		84.5	#N/A	#N/A (0)
B38M     670     Average Count     89.9     89.3     88.1     81.1     81.9     83.5     80.2     85.6     #N/A     76.       B737     1100     Average Count     94.4     93.7     91.9     85.9     86.4     87.1     84.5     91.7     86.5     81.1       B738     61     Average Count     94.6     93.8     91.5     85.5     86.0     86.8     84.3     90.3     #N/A     #N/A       Spirit     A20N     228     Average Count     (58)     (50)     (50)     (55)     (52)     (54)     (58)     (2)     (0)	Horizon	E175	69		93.8	92.9	90.5	84.7	85.1	87.0	83.8	88.8	81.3	#N/A (0)
B737     1100     Average     94.4     93.7     91.9     85.9     86.4     87.1     84.5     91.7     86.5     81.       B738     61     Average     94.6     93.8     91.5     85.5     86.0     86.4     87.1     84.5     91.7     86.5     81.       B738     61     Average     94.6     93.8     91.5     85.5     86.0     86.8     84.3     90.3     #N/A     #W/A       Count     (58)     (50)     (50)     (50)     (50)     (51)     (52)     (54)     (20)     (9)     (0)     (	Southwest	B38M	670		89.9	89.3	88.1	81.1	81.9	83.5	80.2	85.6	#N/A	76.8 (1)
B738     61 Count     Average Count     94.6 (58)     93.8 (50)     91.5 (50)     85.5 (52)     86.0 (54)     84.3 (58)     90.3 (58)     #N/A (70)     #N/A (70)       Spirit     A20N     228     Average Count     88.9     88.1     88.3     82.8     81.3     83.1     79.4     84.3     #N/A     #N/A       A320     222     Average Count     93.1     92.6     90.8     85.4     84.1     85.2     81.5     86.5     #N/A     #N/A       Jnited     A319     108     Average Count     94.1     93.1     92.6     90.8     85.4     84.1     85.2     81.5     86.5     #N/A     #N/A       Jnited     A319     108     Average Count     94.1     93.1     92.6     90.8     84.8     85.9     82.0     87.3     #N/A     #N/A       A320     177     Average     94.1     93.1     92.6     94.4     86.8     85.9     86.2     82.9     88.7     84.6     80.0       Gount </td <td></td> <td>B737</td> <td>1100</td> <td>Average Count</td> <td>94.4</td> <td>93.7</td> <td>91.9</td> <td>85.9</td> <td>86.4</td> <td>87.1</td> <td>84.5</td> <td>91.7</td> <td>86.5</td> <td>81.0 (5)</td>		B737	1100	Average Count	94.4	93.7	91.9	85.9	86.4	87.1	84.5	91.7	86.5	81.0 (5)
Spirit     A20N     228     Average Count     88.9     88.1     88.3     82.8     81.3     83.1     79.4     84.3     #N/A     #N/A       A320     222     Average Count     93.1     92.6     90.8     85.4     84.1     85.2     81.5     86.5     #N/A     #N/A       Jnited     A319     108     Average Count     94.1     93.1     92.8     86.3     84.8     85.9     82.0     87.3     #N/A     #N/A     #N/A       Jnited     A319     108     Average     94.1     93.1     92.8     86.3     84.8     85.9     82.0     87.3     #N/A     #N/A       A320     177     Average     95.5     94.5     94.4     86.8     85.9     86.2     82.9     88.7     84.6     80.       Count     (157)     (149)     (142)     (160)     (146)     (160)     (156)     (11)     (2)     (1       B737     408     Average     99.1     97.7 <td< td=""><td></td><td>B738</td><td>61</td><td>Average Count</td><td></td><td></td><td></td><td></td><td></td><td></td><td>84.3 (58)</td><td></td><td>#N/A</td><td>#N/A (0)</td></td<>		B738	61	Average Count							84.3 (58)		#N/A	#N/A (0)
A320     222     Average Count     93.1 (211)     92.6 (199)     90.8 (179)     85.4 (206)     84.1 (189)     85.2 (204)     81.5 (192)     86.5 (192)     #N/A     #N/A       Jnited     A319     108     Average Count     94.1 (105)     93.1 (96)     92.8 (94)     86.3 (102)     84.8 (102)     85.9 (102)     82.0 (102)     87.3 (102)     #N/A     #N/A       A320     177     Average Count     95.5 (157)     94.4 (142)     86.8 (160)     86.2 (160)     88.7 (160)     89.7 (160)     89.8 (1664)     90.4 (746)     87.5 (720)     93.3 (720)     86.8 (74)     8	Spirit	A20N	228	Average	88.9	88.1	88.3	82.8	81.3	83.1	79.4	84.3	#N/A	#N/A (0)
Jnited     A319     108     Average Count     94.1 (105)     93.1 (96)     92.8 (94)     86.3 (102)     84.8 (92)     85.9 (102)     82.0 (92)     87.3 (102)     #N/A (92)     #N/A (20)     #N/A (102)     #N/A (92)     #N/A (102)     #N/A (92)     #N/A (102)     #N/A (92)     #N/A (102)     #N/A (92)     #N/A (102)     #N/A (92)     #N/A (93)     #N/A (93) <th< td=""><td></td><td>A320</td><td>222</td><td>Average</td><td>93.1</td><td>92.6</td><td>90.8</td><td>85.4</td><td>84.1</td><td>85.2</td><td>81.5</td><td>86.5</td><td>#N/A</td><td>#N/A (0)</td></th<>		A320	222	Average	93.1	92.6	90.8	85.4	84.1	85.2	81.5	86.5	#N/A	#N/A (0)
A320     177     Average Count     95.5 (157)     94.4 (142)     86.8 (160)     85.9 (146)     86.2 (160)     82.9 (160)     88.7 (160)     84.6 (111)     80. (20)       B737     408     Average Count     97.2 (384)     95.7 (344)     96.9 (344)     90.3 (365)     90.4 (363)     90.8 (363)     87.1 (362)     93.9 (14)     87.3 (363)     80. (362)     87.3 (14)     80. (363)     87.5 (363)     93.9 (362)     87.3 (14)     80. (363)     87.5 (363)     93.3 (362)     86.8 (362)     80. (14)     (3)     (3)       B738     844     Average Count     99.1 (774)     97.7 (746)     98.1 (664)     90.1 (703)     89.8 (729)     90.3 (729)     87.5 (720)     93.3 (44)     86.8 (44)     80. (90)       JPS     A306     24     Average (24)     97.8 (24)     96.8 (24)     97.4 (18)     90.5 (23)     89.6 (24)     90.4 (24)     86.5 (24)     #N/A     #N/A       JPS     A306     24     Average (24)     95.0 (24)     93.7 (26)     86.3 (27)     87.4 (24)     87.1 (26)     87.7 (27)     #N/A     #N	United	A319	108	Average	94.1	93.1	92.8	86.3	84.8	85.9	82.0	87.3	#N/A	#N/A (0)
B737     408     Average Count     97.2 (384)     95.7 (344)     96.9 (346)     90.3 (378)     90.4 (350)     90.8 (363)     87.1 (362)     93.9 (14)     87.3 (30)     80. (362)       B738     844     Average Count     99.1 (774)     97.7 (746)     98.1 (664)     90.1 (746)     89.8 (746)     90.3 (729)     87.5 (720)     93.3 (44)     86.8 (90)     80. (729)     93.3 (729)     86.8 (720)     80. (44)     90)     (6       JPS     A306     24     Average Count     97.8 (24)     96.8 (24)     97.4 (18)     90.5 (23)     89.6 (24)     90.4 (24)     86.5 (24)     #N/A     #N/A       B752     29     Average Count     95.0     93.7 (26)     86.3 (27)     87.1 (26)     82.4 (27)     87.7 (26)     87.7 (27)     92.0     #N/A       WestJet     B737     84     Average     96.1     95.0     95.3     89.8     89.6     90.5     85.7     92.0     #N/A		A320	177	Average	95.5	94.5	94.4	86.8	85.9	86.2	82.9	88.7	84.6	80.4 (1)
B738     844     Average Count     99.1 (774)     97.7 (746)     98.1 (664)     90.1 (746)     89.8 (703)     90.3 (729)     87.5 (720)     93.3 (44)     86.8 (9)     80.6 (9)     80.6 (9)     80.6 (44)     80.6 (9)     80.6 (9)     80.6 (720)     93.3 (44)     86.8 (9)     80.6 (9)     80.6 (24)     80.6 (27)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (28)     80.6 (27)     80.6 (28)     80.6 (28)     80.6		B737	408	Average	97.2	95.7	96.9	90.3	90.4	90.8	87.1	93.9	87.3	80.9 (3)
JPS     A306     24     Average Count     97.8 (24)     96.8 (24)     97.4 (18)     90.5 (23)     88.6 (24)     90.4 (24)     86.5 (24)     #N/A     #N/A (0)     #N/A (0)     #N/A (0)       B752     29     Average Count     94.9 (27)     95.0 (26)     93.7 (27)     86.3 (26)     87.8 (27)     87.1 (26)     82.4 (27)     87.7 (26)     87.7 (27)     82.4 (26)     87.7 (20)     100     100       WestJet     B737     84     Average     96.1     95.0     95.3     89.8     89.6     90.5     85.7     92.0     #N/A     #N/A		B738	844	Average	99.1	97.7	98.1	90.1	89.8	90.3	87.5	93.3	86.8	80.3 (9)
B752     29     Average     94.9     95.0     93.7     86.3     87.8     87.1     82.4     87.7     #N/A     #N/A       Count     (27)     (26)     (20)     (0)	UPS	A306	24	Average	97.8	96.8	97.4	90.5	89.6	90.4	86.5	#N/A	#N/A	#N/A (0)
NestJet B737 84 Average 96.1 95.0 95.3 89.8 89.6 90.5 85.7 92.0 #N/A #N/A		B752	29	Average	94.9	95.0	93.7	86.3	87.8	87.1	82.4	87.7	#N/A	#N/A (0)
	WestJet	B737	84											#N/A (0)

# TABLE 7 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commercial Class E October - December 2022

Carrier	АС Туре	# Deps						NMS	Site				
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delta	A220		Average Count	88.9 (164)	88.5 (159)		_				-		#N/A (0)
	A223		Average Count	89.8 (77)		89.2 (73)	81.2 (78)			-			
SkyWest Coml.	E175		Average Count	91.1 (738)	90.7 (692)	89.4 (640)		-			88.0 (29)		79.9 (2)
Southwest	B38M		Average Count	89.6 (25)	89.5 (21)			-		-			
	B737		Average Count	92.1 (2746)	91.7 (2610)			-				-	79.8 (6)
	B738		Average Count	90.1 (2)	91.6 (2)	87.6 (2)			83.3 (1)	83.1 (2)	#N/A (0)		

# TABLE 8 MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS Commuter October - December 2022

Carrier	AC Type	# Deps						NMS	Site				
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delux Public Charters	E135		Average Count	85.7 (421)	85.6 (403)	86.3 (364)	79.7 (353)	79.1 (117)	80.1 (324)	77.4 (14)			#N/A (0)
	E145		Average Count	86.8 (252)	86.9 (241)	87.5 (213)	79.9 (198)	79.3 (91)	80.3 (201)	77.8 (12)			#N/A (0)
SkyWest	CRJ7		Average Count	88.6 (79)	88.3 (75)	87.3 (71)	80.7 (49)	80.7 (63)	82.4 (77)	80.4 (64)	89.0 (3)		#N/A (0)
	E175		Average Count	91.5 (5)	91.2 (5)	88.7 (3)	84.5 (5)			83.7 (5)	88.0 (1)		#N/A (0)

# TABLE 8-GA MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS General Aviation October - December 2022

Carrier	АС Туре	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
General Aviation	Jet		Average Count	88.2 (4941)			82.3 (2970)	82.3 (2258)	83.2 (3218)		85.6 (160)		77.7 (2)

Quarterly Report October – December 2022

# TABLE 9 AIR CARRIER OPERATIONAL HISTORY

Carrier		АС Туре			Year		
			2018	2019	2020	2021	2022
Air Canada	AC	A223				102	192
		B38M				6	494
Alaska	AS	A319	64	244	314		
		A320	262	3,403	1,733	4,038	3,888
		B737	384	160	14	24	116
		B738	8,260	5,247	767	1,327	2,728
Allegiant	G4	A319				1,076	676
		A320				488	1,399
American	AA	A21N		2	2	88	51
		A319	722	432	474	220	498
		A320	78	634	488	783	478
		A321	4	214	571	1,035	1,099
		B38M				17	1,755
		B738	11,457	10,972	5,201	8,144	8,517
		B752	4	36			
Compass	CP	E175	3,188	3,150	656		
Delta	DL	A220		851	1,954	4,036	3,048
		A223				4	1,934
		A319	1,979	1,987	828	952	2,071
		A320	12	11	8	3	532
		B712	3,379	2,495			
		B737	188	8	24		
		B738	18	40	2	12	58
		B739	2				
		B752	2,889	2,889	1,065	1,423	2,010
		MD90	2				
FedEx	FM	A306	508	510	512	502	498
Frontier	F9	A20N	600	900	550	1,363	1,818
		A319	190	100	2	88	
		A320	654	428	392	361	310
Horizon	QX	DH8D	728	12			
		E175	2,716	4,257	2,986	3,293	1,256
SkyWest Coml.	SC	CRJ9	6		2		
		E175	6,960	7,686	3,535	3,711	5,446
Southwest	WN	B38M	14	10		683	4,038
		B737	32,380	29,360	14,268	22,212	31,166
		B738	64	134	3,780	7,738	1,720
Spirit	NK	A20N			180	1,735	2,220
		A319				250	158
		A320			19	346	1,132
Sun Country	SY	B737				238	8
2		B738				24	2
United	UA	A319	999	1,216	590	819	1,047
		A320	3,927	3,151	1,227	1,020	2,054
		B737	2,987	2,816	999	2,622	4,116
		B738	5,154	5,627	2,645	2,946	5,685
		B752	4	.,	,	2	,
UPS	5X	A306	22	12	18	18	48
		B752	394	404	404	392	362
WestJet	WS	B736	10	58	34	002	002
		B730 B737	666	618	126	112	632
Total	_	5101	91,875	90,074	46,370	74,253	95,260

TABLE 10
AIRCRAFT OPERATIONAL HISTORY

Aircraft	Year							
	2018	2019	2020	2021	2022			
A20N	600	900	730	3,098	4,038			
A21N		2	2	88	51			
A220		851	1,954	4,036	3,048			
A223				106	2,126			
A306	530	522	530	520	546			
A319	3,954	3,979	2,208	3,405	4,450			
A320	4,933	7,627	3,867	7,039	9,793			
A321	4	214	571	1,035	1,099			
B38M	14	10		706	6,287			
B712	3,379	2,495						
B736	10	58	34					
B737	36,605	32,962	15,431	25,208	36,038			
B738	24,953	22,020	12,395	20,191	18,710			
B739	2							
B752	3,291	3,329	1,469	1,817	2,372			
CRJ9	6		2					
DH8D	728	12						
E175	12,864	15,093	7,177	7,004	6,702			
MD90	2							
Total	91,875	90,074	46,370	74,253	95,260			

TABLE 11
AIR CARRIER AVERAGE DAILY DEPARTURE HISTORY

Carrier		AC Type			Year		
			2018	2019	2020	2021	2022
Air Canada	AC	A223				.140	.263
		B38M				.008	.677
Alaska	AS	A319	.088	.334	.432		
		A320	.359	4.660	2.363	5.534	5.326
		B737	.526	.219	.022	.033	.159
		B738	11.315	7.189	1.046	1.816	3.734
Allegiant	G4	A319				1.474	.926
		A320				.668	1.915
American	AA	A21N		.003	.003	.121	.068
		A319	.989	.592	.648	.296	.682
		A320	.107	.868	.664	1.082	.655
		A321	.005	.293	.779	1.414	1.507
		B38M				.022	2.403
		B738	15.696	15.030	7.107	11.156	11.666
		B752	.005	.049			
Compass	CP	E175	4.367	4.315	.896		
Delta	DL	A220		1.164	2.667	5.529	4.175
		A223				.005	2.649
		A319	2.712	2.723	1.131	1.304	2.836
		A320	.016	.014	.014	.003	.729
		B712	4.627	3.419			
		B737	.258	.011	.033		
		B738	.025	.055	.003	.016	.079
		B739	.003				
		B752	3.959	3.956	1.454	1.948	2.753
		MD90	.003				
FedEx	FM	A306	.696	.699	.699	.688	.682
Frontier	F9	A20N	.822	1.233	.751	1.866	2.490
		A319	.260	.137	.003	.121	
		A320	.896	.586	.536	.496	.425
Horizon	QX	DH8D	.997	.016			
		E175	3.721	5.830	4.079	4.512	1.721
SkyWest Coml.	SC	CRJ9	.008		.003	-	
,		E175	9.534	10.529	4.833	5.085	7.460
Southwest	WN	B38M	.019	.014		.937	5.532
		B737	44.351	40.216	19.497	30.416	42.693
		B738	.088	.184	5.161	10.605	2.353
Spirit	NK	A20N		-	.246	2.381	3.041
		A319			-	.342	.216
		A320			.025	.471	1.551
Sun Country	SY	B737				.326	.011
- J		B738				.033	.003
United	UA	A319	1.373	1.666	.806	1.123	1.433
-		A320	5.375	4.315	1.675	1.397	2.814
		B737	4.093	3.855	1.366	3.589	5.644
		B738	7.058	7.712	3.612	4.036	7.786
		B752	.005			.003	
UPS	5X	A306	.030	.016	.025	.025	.066
	573	B752	.540	.553	.552	.537	.496
WestJet	WS	B736	.014	.079	.046		
		B737	.912	.847	.172	.153	.866
	-			.1-0.	. 172	.100	.000

TABLE 12
AIRCRAFT Glossary

АС Туре	Make	Model/Series
A20N	Airbus	320-200 Neo
A21N	Airbus	321 Neo
A220	Airbus	220-100
A223	Airbus	220-300
A306	Airbus	300-600
A319	Airbus	319
A320	Airbus	320
A321	Airbus	321
B38M	Boeing	737-800 Max
B712	Boeing	717-200
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
E175	Embraer	175
MD90	McDonnell Douglas	90

## **QUARTERLY NOISE MEETING**

Date: December 20, 2022 Time: 2:00 PM Place: Virtual (Zoom)

### **ITEMS DISCUSSED**

A summary of the John Wayne Airport (JWA) October 2022 airport statistics was provided by Ms. Cassandra Linares, ANO Specialist. Ms. Linares stated there was a 23.6% increase in passenger volume compared to the same period last year.

Mr. Anthony Cangey, ANO Specialist, provided a review of the Plan Year 2023 capacity allocation highlighting that 14,499,222 seats were allocated to commercial air carriers and 284,290 passengers were allocated to commuter carriers.

Mr. Nikolas Gaskins, Access and Noise Manager, provided an overview of the Federal Aviation Administration (FAA) virtual community workshop that took place on Tuesday, November 15, 2022, and Thursday, November 17, 2022.

Dr. Jim Mosher asked how "touch and go's" were counted for each arrival and departure, and whether the operation counted if it does not touchdown on the runway. Mr. Gaskins explained that the general aviation counts are provided by the FAA through the air traffic control (ATC) tower log.

Mr. Jack Stranberg inquired why Aeromexico would not be operating at JWA after initialing receiving capacity in 2023. Mr. Gaskins explained that Aeromexico could not operate because of their current FAA Category 2 air safety rating, and their capacity allocation for Plan Year 2023 was reallocated to Breeze Airways. Mr. Jason Herman, representing the Air Line Pilots Association (ALPA), added that the International Civil Aviation Organization (ICAO) rates countries based on safety and other operational factors, and the U.S. requires a Category 1 rating for an international carrier to operate new routes in the U.S.

Dr. Mosher asked if Southern Airways Express would have to conduct an aircraft noise qualification test. Mr. Gaskins stated that Southern Airways Express would be required to conduct an aircraft noise qualification test as do all new entrant carriers, and that will most likely take place in second quarter of Plan Year 2023.

Dr. Mosher posed the question if an Advisory Circular from 30 years ago is still in effect or if pilots can choose their noise abatement departure procedure (NADP) based on a specific airport. Mr. Herman explained that the carrier he currently flies for utilizes NADP2 for noise-sensitive airports and NADP1 for the others. He further explained that they do not have a custom NADP, and are trained in both NADP1 and NADP2.

Mr. Joe August was interested in who decides if a carrier departs to the north or south. Mr. Herman clarified that takeoff direction depends on performance data such as ambient temperature, wind conditions, and aircraft weight in collaboration with the ATC tower.

Dr. Mosher asked why the Fly Friendly data on the Airport's website is not presented as a PDF document. Mr. Gaskins indicated that the data is displayed on a dashboard and is updated monthly.

# QUARTERLY NOISE MEETING ROSTER December 20, 2022

NAME	ORGANIZATION
Joe August	Resident – Newport Beach
Jim Mosher	Resident – Newport Beach
Jason Herman	Air Line Pilots Association
Jack Stranberg	Newport Beach Aviation Committee Member
Sara Hall	Stu News
Unknown Caller	Unknown
Nikolas Gaskins	John Wayne Airport
Anthony Cangey	John Wayne Airport
Cristina Magaña	John Wayne Airport
Cassandra Linares	John Wayne Airport

### 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):

0.0144 Sq. Mi.

- Estimated Number of dwelling units included in the Noise Impact Area as defined in the Noise Standards:
  71
- 3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:

177.5 (Based on 2.5 People/Dwelling Unit)

4. Identification of aircraft of 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:

B738 – 4,499 (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)

45,785

100%

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

121

71,924

26,018