

**JOHN WAYNE AIRPORT  
ORANGE COUNTY**



# **NOISE ABATEMENT PROGRAM QUARTERLY REPORT**

**For the period:  
July 1, 2022 through September 30, 2022**

**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:**

DocuSigned by:

*Charlene Reynolds*

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**Charlene V. Reynolds  
Airport Director  
John Wayne Airport, Orange County**

## **INTRODUCTION**

This is the 199th 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 (October 1, 2021 - September 30, 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".

**FIGURE 1  
NOISE MONITORING STATIONS (NMS)  
LOCATION MAP**

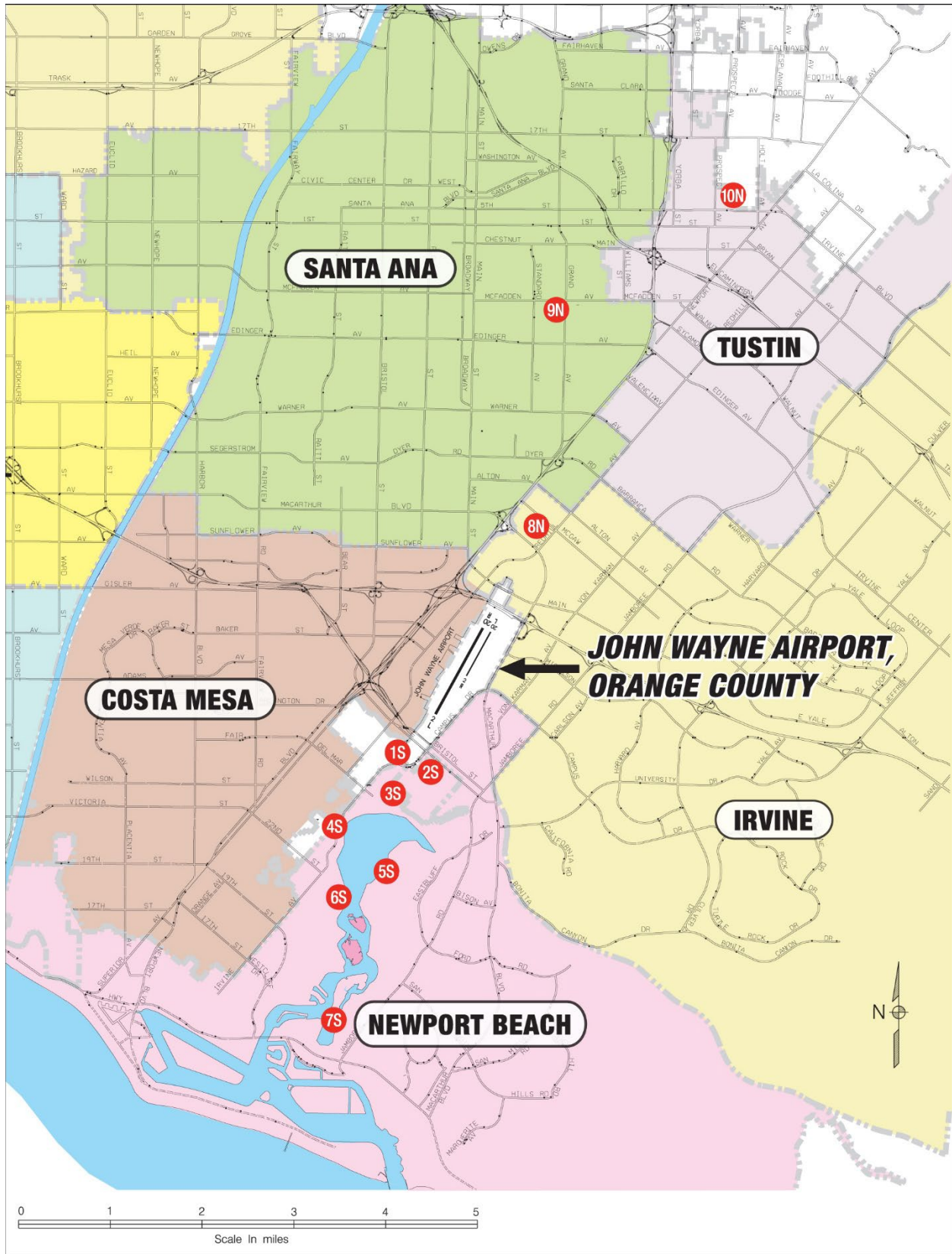
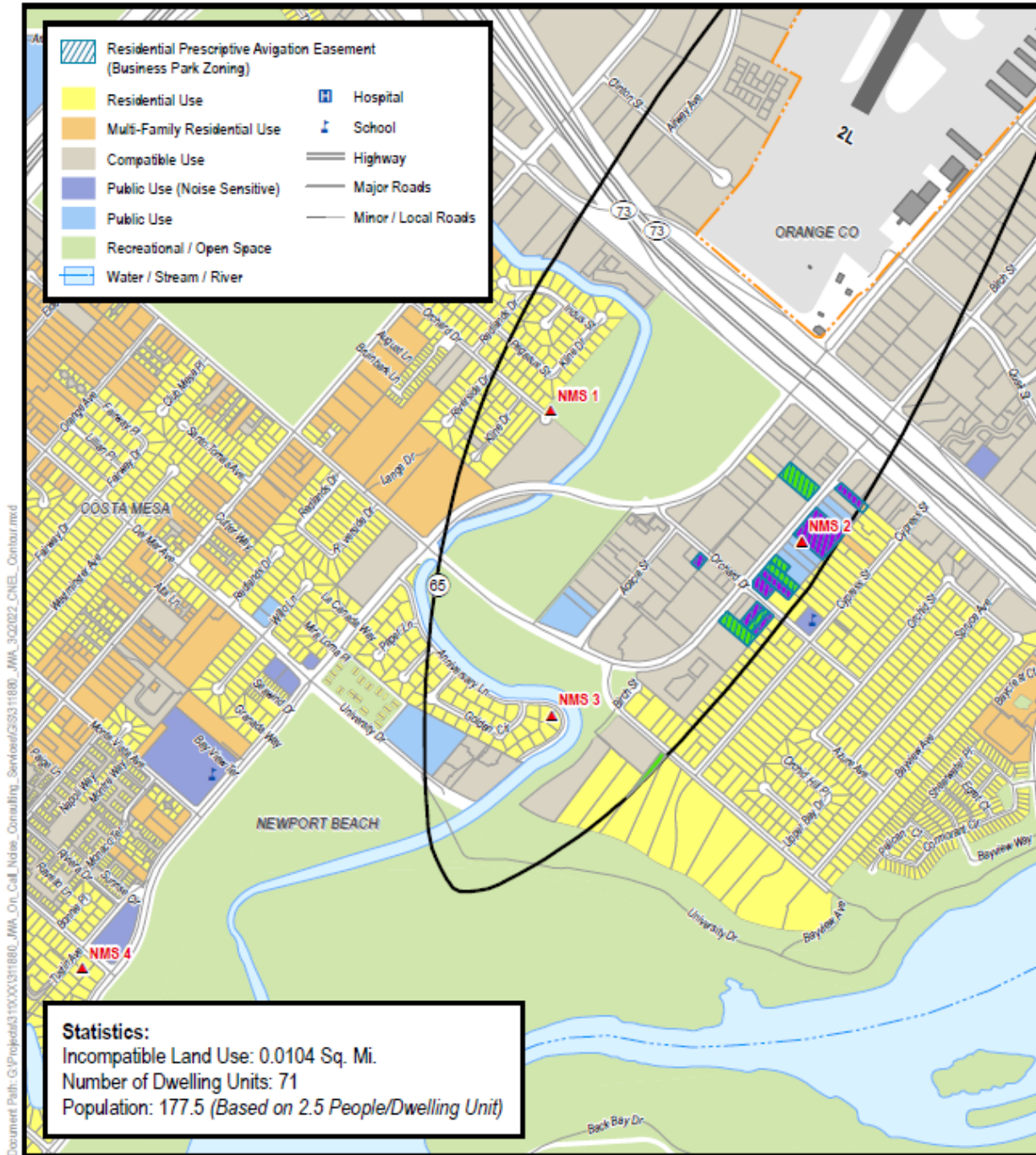


FIGURE 2



Document Path: G:\Projects\3100\311880\_JWA\_Or\_Cal\_Noise\_Consulting\_Serv\GIS\311880\_JWA\_302022\_CNEL\_Contour.mxd

- ▲ RMT Location
- 2022 Third Quarter 65 dB CNEL Contour
- Incompatible Single Family Residential
- Incompatible Multi-Family Residential
- Airport Property (Approx.)
- Runways / Taxiways
- Airport Buildings

**JOHN WAYNE AIRPORT  
ORANGE COUNTY**

2022 Third Quarter 65 dB  
Community Noise Equivalent Level  
(CNEL) Contour



**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  
July - September 2022

Period	Carriers		GA Jet (1)	Total Operations (2)	Average Daily Jet Operations
	Jet	Prop			
July	8,753	0	4,179	27,061	417
August	8,817	0	4,040	28,857	415
September	8,663	0	4,156	26,209	427
Third Quarter	26,233	0	12,375	82,127	420
Twelve Months 10/01/21 - 09/30/22	98,411	0	48,788	305,259	403

NOTE: (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.

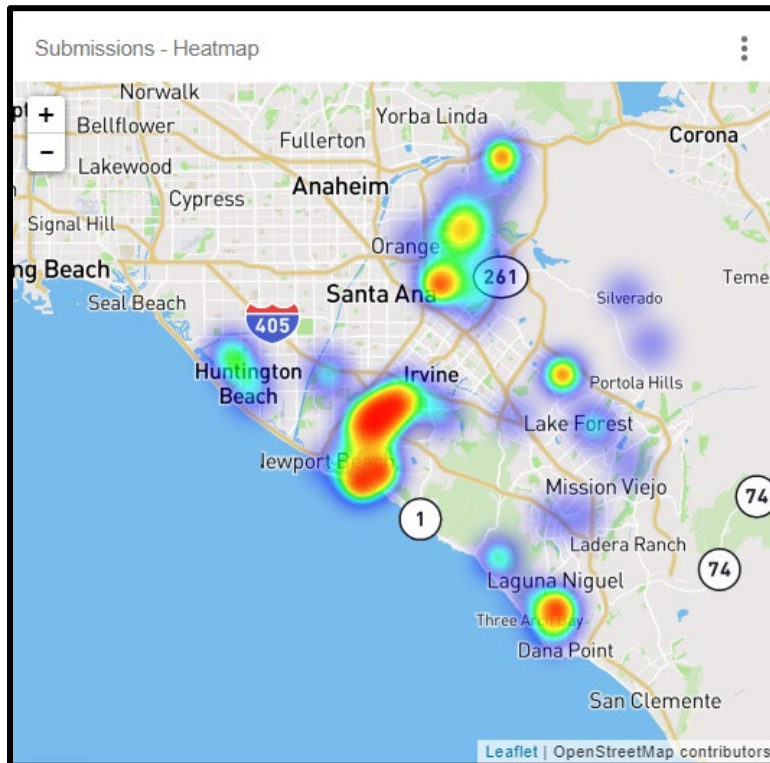
**ACOUSTICAL INSULATION PROGRAM**

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. Seventy-one dwelling units in Santa Ana Heights remain in the “Noise Impacted Area” (within 65 dB CNEL contour).

**COMPLAINT TOTALS (July 1, 2022 - September 30, 2022)**

The Airport's Access and Noise Office receives and investigates noise complaints from local citizens and all other sources. From July 1, 2022, through September 30, 2022, the Office received 83,266 complaints from local citizens. This is a 31.7% decrease from the 121,988 complaints received last quarter. It is a 31.9% increase from the 63,128 complaints received during the same quarter last year. Figure 3 shows the distribution of the quarterly complaints from local communities.

**FIGURE 3  
REPORTED NOISE EVENTS BY COMMUNITY**



**Notes:**

- Newport Beach – 37,329 submissions from 31 different points of contact.
- Anaheim – 35,093 submissions from 12 different points of contact.
- Irvine – 5,778 submissions from 14 different points of contact.
- Laguna Niguel – 1,904 submissions from 4 different points of contact.
- Tustin – 1,093 submissions from 8 different points of contact.
- Laguna Beach – 733 submissions from 1 point of contact.
- Costa Mesa – 537 submissions from 11 different points of contact.
- Huntington Beach - 338 submissions from 6 different points of contact.
- Other – 233 submissions from 30 different points of contact.
- Orange – 228 submissions from 7 different points of contact.
- 11% of submissions were from a complaint subscription service.

**TABLE 2**  
**LONG TERM MEASURED LEVELS**  
Aircraft CNEL from 10/01/21 through 09/30/22  
Values in dB at Each Site

Period	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Oct 2021	67.7	66.5	67.0	59.9	59.4	60.4	56.8	67.7	42.3	57.1
# Days	31	31	31	31	31	31	31	30	25	31
Nov 2021	67.3	66.0	66.9	59.1	58.6	60.4	55.9	67.1	41.8	56.8
# Days	30	30	30	30	30	30	29	30	21	17
Dec 2021	67.9	66.2	66.8	60.2	59.8	60.5	57.3	67.9	43.1	57.9
# Days	31	31	31	31	31	31	31	31	28	31
<b>Q-4 2021</b>	<b>67.7</b>	<b>66.2</b>	<b>66.9</b>	<b>59.8</b>	<b>59.3</b>	<b>60.4</b>	<b>56.7</b>	<b>67.6</b>	<b>42.5</b>	<b>57.4</b>
<b># Days</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>91</b>	<b>91</b>	<b>74</b>	<b>79</b>
Jan 2022	66.5	65.0	66.0	59.3	58.4	60.0	55.8	66.5	43.0	55.8
# Days	31	31	31	30	31	31	29	31	22	29
Feb 2022	66.5	65.3	66.0	58.5	58.1	60.0	55.5	66.6	41.0	55.3
# Days	28	28	28	28	28	28	28	28	22	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
<b>Q-1 2022</b>	<b>67.0</b>	<b>65.6</b>	<b>66.4</b>	<b>59.3</b>	<b>58.7</b>	<b>60.1</b>	<b>56.1</b>	<b>67.1</b>	<b>43.0</b>	<b>56.4</b>
<b># Days</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>89</b>	<b>90</b>	<b>90</b>	<b>88</b>	<b>90</b>	<b>70</b>	<b>88</b>
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	29	25	30
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
<b>Q-2 2022</b>	<b>67.9</b>	<b>66.5</b>	<b>67.1</b>	<b>60.1</b>	<b>59.3</b>	<b>60.1</b>	<b>56.7</b>	<b>68.4</b>	<b>42.0</b>	<b>57.7</b>
<b># Days</b>	<b>91</b>	<b>89</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>90</b>	<b>69</b>	<b>91</b>
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	31	31	31	26	31	31	31	31	26	31
Sep 2022	67.9	66.9	67.1	59.2	59.0	60.2	56.3	68.4	43.1	57.2
# Days	30	30	30	30	30	30	30	27	21	30
<b>Q-3 2022</b>	<b>68.0</b>	<b>66.8</b>	<b>67.1</b>	<b>59.7</b>	<b>59.2</b>	<b>60.3</b>	<b>56.1</b>	<b>68.5</b>	<b>42.2</b>	<b>57.3</b>
<b># Days</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>87</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>88</b>	<b>73</b>	<b>92</b>
<b>Q-4 2021 thru Q-3 2022</b>										
<b>Total</b>	<b>67.6</b>	<b>66.3</b>	<b>66.9</b>	<b>59.7</b>	<b>59.1</b>	<b>60.3</b>	<b>56.4</b>	<b>67.9</b>	<b>42.4</b>	<b>57.2</b>
<b># Days</b>	<b>365</b>	<b>363</b>	<b>365</b>	<b>359</b>	<b>365</b>	<b>365</b>	<b>362</b>	<b>359</b>	<b>286</b>	<b>350</b>
<b>Q-3 2021 thru Q-2 2022 (Previous 4 Quarters)</b>										
<b>Total</b>	<b>67.6</b>	<b>66.1</b>	<b>66.8</b>	<b>59.8</b>	<b>59.1</b>	<b>60.2</b>	<b>56.3</b>	<b>67.7</b>	<b>42.0</b>	<b>57.2</b>
<b># Days</b>	<b>365</b>	<b>363</b>	<b>365</b>	<b>364</b>	<b>365</b>	<b>365</b>	<b>362</b>	<b>363</b>	<b>283</b>	<b>350</b>
<b>Change from Previous 4 Quarters</b>										
	<b>0.0</b>	<b>0.2</b>	<b>0.1</b>	<b>-0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.4</b>	<b>0.0</b>

**TABLE 3**  
**DAILY CNEL VALUES AT EACH MONITOR STATION**  
 July 2022

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	68.5	66.9	67.7	60.5	59.5	60.6	55.3	69.2	40.8	57.9
2	67.2	65.9	66.2	59.1	58.4	59.4	54.8	67.3	*#N/A	55.5
3	67.2	65.9	66.0	60.3	59.3	60.5	57.0	68.6	44.7	57.7
4	67.4	66.3	66.1	59.8	59.5	60.3	56.8	68.2	*#N/A	57.7
5	68.4	67.0	67.5	60.5	60.1	61.3	57.8	68.5	45.7	57.3
6	67.6	66.2	67.0	59.5	59.0	59.8	56.5	67.5	*#N/A	56.7
7	67.9	66.5	66.8	60.2	59.7	60.7	56.7	68.7	30.4	57.5
8	67.8	66.4	66.9	60.1	59.2	60.1	56.3	69.0	28.1	57.9
9	66.7	65.5	66.1	58.3	57.8	58.5	53.6	66.8	42.8	55.8
10	68.4	67.0	67.6	59.8	59.7	60.8	57.1	68.9	39.3	57.6
11	67.8	66.5	67.2	60.4	60.0	60.7	56.3	69.2	34.7	58.3
12	67.0	65.8	66.7	59.9	59.2	60.2	54.9	68.9	37.2	58.0
13	67.9	66.7	67.1	60.1	59.8	60.6	55.9	68.5	37.2	57.7
14	68.3	66.7	67.5	61.1	59.8	61.4	57.0	69.1	42.7	58.1
15	68.3	66.8	67.6	60.8	59.7	61.3	56.7	68.9	41.8	57.9
16	66.9	65.5	66.1	58.8	57.8	58.9	53.6	67.1	31.7	55.7
17	68.4	67.0	67.5	60.8	59.5	60.9	55.9	68.9	35.4	57.8
18	68.2	67.0	67.3	60.1	59.4	60.0	56.1	68.5	27.9	57.6
19	67.1	66.2	66.2	58.3	57.4	58.1	54.0	68.0	38.0	57.0
20	67.6	66.5	66.8	59.5	58.7	59.4	55.0	68.1	37.7	55.5
21	68.7	67.5	67.4	61.3	59.8	60.9	56.6	69.4	*#N/A	58.1
22	68.3	67.1	67.4	61.0	59.6	60.9	56.9	69.1	32.4	57.7
23	67.3	65.4	66.1	59.6	58.0	59.2	53.8	67.7	44.5	56.1
24	68.9	67.5	67.9	60.5	59.6	60.9	56.7	69.7	50.8	58.4
25	68.5	67.3	67.6	60.3	59.5	60.7	56.0	68.9	43.5	57.5
26	68.1	66.9	67.2	60.5	59.9	61.4	57.9	#N/A	44.2	57.7
27	68.1	66.9	67.4	59.9	59.0	60.1	54.9	70.2	31.5	57.2
28	68.7	67.4	67.6	60.9	59.4	60.7	56.2	69.4	34.3	58.4
29	68.4	67.2	67.6	61.2	59.9	61.7	57.5	68.9	39.8	57.9
30	67.3	65.8	66.5	59.3	58.1	59.6	54.8	67.9	*#N/A	56.8
31	68.7	67.8	67.7	59.8	58.8	60.0	56.0	69.2	43.1	57.5
Days	31	31	31	31	31	31	31	30	26	31
En. Avg	68.0	66.7	67.1	60.1	59.3	60.4	56.1	68.7	41.9	57.4

#N/A indicates insufficient data.

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



**TABLE 4**  
**DAILY CNEL VALUES AT EACH MONITOR STATION**  
 August 2022

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	68.3	67.4	67.3	60.2	59.8	60.5	56.7	68.6	39.9	57.5
2	67.7	67.0	67.1	59.8	59.4	60.4	56.9	67.7	42.3	56.9
3	68.0	66.9	67.1	60.3	59.2	60.4	56.5	68.4	39.7	57.9
4	68.6	67.4	67.7	60.9	60.0	61.3	57.3	68.2	38.2	53.8
5	68.2	67.5	67.5	60.4	59.8	61.0	57.0	68.6	45.5	57.5
6	67.0	66.1	66.4	58.9	58.4	59.3	55.6	67.1	40.1	56.0
7	68.9	67.7	68.1	59.9	59.5	60.0	55.0	68.5	*#N/A	56.9
8	68.4	66.4	67.1	60.4	58.1	60.3	56.1	68.9	43.0	57.8
9	67.7	66.5	66.5	59.3	58.2	59.3	55.1	68.3	29.5	56.9
10	67.7	66.9	66.7	59.5	58.5	59.5	55.8	67.7	43.8	56.5
11	68.6	67.8	67.8	60.1	59.6	60.3	55.8	68.7	43.8	57.6
12	68.2	67.1	67.4	59.9	58.9	60.1	55.1	68.7	35.5	57.2
13	67.0	66.0	66.2	58.7	57.3	58.3	53.3	66.6	41.2	55.5
14	68.2	67.1	67.1	59.8	58.9	60.1	56.0	68.8	42.8	57.4
15	68.2	67.0	67.7	60.4	59.5	60.7	56.3	68.5	49.3	57.7
16	67.8	66.6	66.9	60.1	59.0	60.0	55.6	68.0	35.6	56.9
17	67.3	66.4	66.6	59.2	58.3	59.0	54.1	68.6	39.8	57.7
18	68.6	67.3	67.5	60.3	59.5	60.0	55.9	69.1	*#N/A	57.5
19	68.2	66.9	67.5	60.0	59.6	61.1	56.8	69.1	37.0	58.3
20	67.1	65.8	66.0	59.8	58.3	59.7	55.5	67.7	33.2	56.8
21	68.6	67.3	67.9	#N/A	60.0	61.3	57.0	69.0	43.8	58.0
22	68.0	67.1	67.2	#N/A	59.3	60.0	55.8	69.0	34.6	58.4
23	67.9	66.5	66.9	#N/A	58.5	59.9	55.7	68.4	29.8	57.0
24	68.1	66.9	67.0	#N/A	59.1	60.6	56.2	68.4	*#N/A	57.4
25	68.5	67.4	67.9	#N/A	59.8	61.0	57.0	68.9	34.5	57.7
26	68.0	67.4	67.4	60.8	59.5	60.3	56.4	68.3	36.2	58.2
27	67.1	65.8	66.5	58.6	58.8	59.7	54.8	67.2	*#N/A	56.3
28	68.5	67.4	67.5	60.2	60.0	61.3	57.2	69.2	38.1	58.2
29	68.2	67.1	67.6	59.6	60.2	60.9	56.8	68.7	40.3	58.1
30	67.5	66.6	66.8	58.1	58.7	59.4	55.4	66.6	42.6	55.5
31	67.6	66.7	67.1	57.8	58.7	59.5	55.5	67.5	*#N/A	56.2
Days	31	31	31	26	31	31	31	31	26	31
En. Avg	68.0	66.9	67.2	59.8	59.2	60.2	56.0	68.3	41.5	57.2

#N/A indicates insufficient data.

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

**TABLE 5**  
**DAILY CNEL VALUES AT EACH MONITOR STATION**  
September 2022

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	68.6	67.0	68.1	59.8	58.5	60.9	56.8	68.7	40.3	57.8
2	68.4	67.1	67.3	59.4	58.9	60.5	56.7	68.5	*#N/A	57.0
3	66.0	65.1	65.1	56.7	56.4	57.4	53.7	66.1	40.3	54.3
4	66.5	64.9	65.7	57.6	56.6	58.9	55.1	67.5	43.9	56.2
5	68.2	67.1	67.5	59.3	59.1	60.4	56.5	68.3	*#N/A	56.7
6	67.3	66.2	66.9	58.8	58.4	59.5	55.5	68.0	46.0	56.0
7	67.0	65.9	66.1	57.9	57.8	58.8	54.9	67.0	43.5	55.8
8	67.6	66.3	66.6	57.9	58.5	60.1	55.5	66.9	41.9	55.9
9	65.6	63.9	67.0	57.4	56.1	61.8	53.9	#N/A	43.9	56.5
10	65.9	64.2	65.1	58.0	56.9	58.4	54.6	#N/A	37.7	56.0
11	68.3	67.4	67.5	59.4	59.7	60.7	57.5	#N/A	43.7	57.8
12	68.2	67.2	67.5	59.2	60.1	60.7	57.4	70.6	44.3	57.2
13	67.5	66.6	67.1	59.8	59.2	60.1	56.5	68.4	31.9	57.6
14	67.8	66.9	67.1	59.6	59.6	60.9	57.3	68.8	*#N/A	57.8
15	69.0	67.6	68.0	59.9	60.4	61.4	57.8	68.6	*#N/A	57.6
16	68.3	67.0	67.4	59.9	59.9	60.8	57.1	68.5	39.0	57.7
17	67.3	66.0	65.9	59.3	58.7	59.7	56.5	67.4	37.9	56.6
18	68.5	67.9	67.4	60.3	60.3	61.3	57.6	69.3	41.5	58.7
19	68.5	67.6	67.5	60.0	60.3	60.7	57.4	69.0	45.9	58.3
20	67.8	67.1	67.0	59.5	59.8	60.1	57.0	68.7	46.4	57.7
21	68.0	67.7	67.2	59.2	60.4	61.2	57.9	68.7	45.7	57.6
22	69.1	68.3	68.4	60.4	60.5	61.4	57.5	68.6	43.1	57.9
23	68.2	67.7	67.2	59.0	58.7	59.4	54.8	68.8	39.9	57.4
24	67.0	66.5	66.3	57.6	57.4	57.8	53.6	66.8	39.8	54.6
25	68.2	67.8	67.4	58.8	59.0	59.4	55.5	68.4	*#N/A	56.9
26	68.3	67.8	67.5	59.3	59.4	59.8	56.2	68.3	*#N/A	57.2
27	67.5	66.4	66.4	58.5	58.3	59.4	55.5	67.7	*#N/A	57.3
28	67.9	66.8	67.1	59.2	58.7	59.5	55.8	67.9	*#N/A	57.4
29	68.3	67.1	67.1	58.6	59.2	60.1	55.9	69.2	*#N/A	58.4
30	68.9	68.0	67.8	61.2	59.8	61.2	56.2	69.3	45.7	58.9
Days	30	30	30	30	30	30	30	27	21	30
En. Avg	67.9	66.9	67.1	59.2	59.0	60.2	56.3	68.4	43.1	57.2

#N/A indicates insufficient data.

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

**TABLE 6  
MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS  
Commercial Class A  
July - September 2022**

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Air Canada	B38M	92	Average Count	91.8 (85)	90.7 (87)	91.8 (90)	84.0 (80)	82.7 (90)	83.4 (85)	79.5 (44)	#N/A (0)	#N/A (0)	#N/A (0)
Alaska	A320	630	Average Count	95.8 (614)	94.5 (594)	95.4 (613)	87.9 (570)	85.9 (620)	87.0 (614)	84.1 (611)	91.0 (1)	85.4 (1)	79.3 (1)
	B737	3	Average Count	95.8 (3)	94.5 (3)	94.8 (3)	89.4 (3)	89.3 (3)	89.5 (3)	85.6 (2)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	225	Average Count	97.8 (221)	96.4 (217)	95.4 (216)	89.1 (196)	88.7 (219)	89.9 (219)	86.6 (218)	#N/A (0)	#N/A (0)	#N/A (0)
Allegiant	A319	42	Average Count	93.4 (41)	92.2 (40)	92.8 (41)	86.6 (38)	85.5 (41)	86.6 (39)	82.1 (37)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	240	Average Count	94.7 (234)	93.8 (226)	92.5 (234)	86.7 (210)	85.5 (236)	87.0 (234)	82.7 (226)	89.1 (2)	#N/A (0)	#N/A (0)
American	A21N	14	Average Count	89.5 (14)	89.1 (14)	88.5 (14)	80.9 (12)	79.3 (8)	80.1 (12)	77.6 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	A319	84	Average Count	94.3 (81)	93.5 (74)	93.6 (82)	86.3 (75)	84.9 (82)	84.9 (77)	80.2 (67)	90.7 (1)	#N/A (0)	#N/A (0)
	A320	50	Average Count	95.3 (50)	93.9 (49)	94.9 (50)	87.1 (49)	85.3 (49)	85.0 (48)	81.5 (30)	#N/A (0)	#N/A (0)	#N/A (0)
	A321	170	Average Count	98.9 (168)	98.2 (158)	98.2 (167)	90.0 (149)	88.2 (165)	87.7 (159)	83.7 (159)	#N/A (0)	#N/A (0)	#N/A (0)
	B38M	320	Average Count	92.8 (311)	91.7 (293)	92.6 (312)	84.1 (283)	83.9 (313)	85.5 (308)	80.9 (278)	88.3 (1)	81.7 (1)	#N/A (0)
	B738	921	Average Count	98.7 (894)	97.5 (858)	97.6 (898)	89.5 (804)	89.1 (882)	89.8 (859)	86.5 (864)	93.0 (4)	87.7 (3)	82.1 (5)
Delta	A220	254	Average Count	88.2 (252)	88.0 (244)	87.7 (252)	79.7 (199)	78.9 (143)	80.0 (191)	78.2 (10)	84.2 (1)	#N/A (0)	#N/A (0)
	A223	204	Average Count	89.4 (203)	89.3 (198)	88.7 (197)	80.0 (162)	79.4 (142)	80.0 (152)	80.6 (6)	83.3 (1)	#N/A (0)	#N/A (0)
	A319	289	Average Count	95.5 (277)	94.6 (269)	95.2 (282)	88.3 (246)	86.9 (283)	86.9 (278)	82.3 (269)	94.8 (3)	85.4 (2)	82.0 (1)
	A320	68	Average Count	96.3 (65)	95.6 (59)	95.9 (64)	88.9 (62)	87.7 (64)	87.6 (62)	83.1 (62)	93.4 (1)	#N/A (0)	#N/A (0)
	B738	9	Average Count	97.5 (8)	96.2 (7)	96.9 (9)	88.7 (6)	87.9 (9)	87.3 (8)	83.7 (7)	#N/A (0)	#N/A (0)	#N/A (0)
	B752	277	Average Count	96.3 (264)	95.5 (256)	96.1 (263)	88.5 (237)	87.5 (265)	87.8 (264)	83.2 (261)	94.8 (6)	86.3 (5)	80.6 (1)
FedEx	A306	64	Average Count	97.1 (63)	96.5 (62)	94.5 (64)	88.4 (60)	87.8 (63)	89.2 (64)	85.2 (63)	#N/A (0)	#N/A (0)	#N/A (0)
Frontier	A20N	237	Average Count	87.9 (231)	87.6 (232)	87.4 (231)	80.8 (188)	79.3 (119)	81.6 (191)	78.8 (64)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	33	Average Count	94.6 (32)	93.9 (31)	92.6 (30)	86.2 (30)	84.7 (32)	86.8 (31)	83.8 (30)	#N/A (0)	#N/A (0)	#N/A (0)
Horizon	E175	158	Average Count	92.7 (156)	91.6 (153)	90.1 (155)	84.3 (144)	84.2 (154)	86.6 (154)	82.9 (145)	92.0 (1)	#N/A (0)	#N/A (0)
Southwest	B38M	579	Average Count	89.9 (559)	88.9 (545)	88.3 (567)	80.7 (442)	81.3 (535)	83.3 (545)	79.8 (386)	87.0 (2)	#N/A (0)	79.0 (1)
	B737	1229	Average Count	94.1 (1199)	93.2 (1162)	91.8 (1203)	85.6 (1118)	86.0 (1203)	87.0 (1182)	83.7 (1169)	92.7 (4)	80.7 (1)	80.5 (5)
	B738	114	Average Count	93.9 (110)	92.9 (109)	90.8 (109)	84.7 (104)	85.0 (108)	86.1 (110)	83.1 (107)	92.4 (1)	#N/A (0)	#N/A (0)
Spirit	A20N	307	Average Count	88.2 (300)	87.7 (285)	87.7 (301)	81.7 (265)	80.2 (242)	82.0 (297)	78.7 (130)	86.1 (1)	#N/A (0)	#N/A (0)
	A320	146	Average Count	92.3 (143)	91.9 (138)	90.2 (142)	84.2 (136)	83.1 (140)	84.3 (143)	80.6 (103)	#N/A (0)	#N/A (0)	#N/A (0)
United	A319	124	Average Count	93.9 (122)	92.6 (116)	92.8 (123)	85.6 (114)	83.9 (122)	85.0 (121)	80.5 (93)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	273	Average Count	95.3 (267)	94.4 (261)	94.4 (269)	86.2 (242)	85.0 (264)	85.6 (264)	82.0 (247)	#N/A (0)	#N/A (0)	#N/A (0)
	B737	590	Average Count	96.8 (578)	95.1 (564)	96.8 (576)	90.1 (524)	89.8 (563)	90.2 (555)	85.9 (553)	93.7 (2)	86.4 (1)	#N/A (0)
	B738	725	Average Count	98.7 (693)	97.2 (683)	98.2 (691)	89.7 (630)	89.3 (684)	89.7 (664)	86.5 (652)	94.5 (8)	88.1 (9)	79.4 (8)
UPS	B752	50	Average Count	94.9 (50)	94.5 (49)	93.4 (50)	86.3 (46)	86.0 (50)	86.9 (50)	82.3 (49)	#N/A (0)	#N/A (0)	#N/A (0)
WestJet	B737	91	Average Count	95.3 (90)	94.1 (86)	94.9 (87)	89.0 (80)	88.6 (89)	89.7 (89)	84.4 (86)	#N/A (0)	#N/A (0)	#N/A (0)

**TABLE 7**  
**MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS**  
**Commercial Class E**  
**July - September 2022**

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delta	A220	67	Average Count	88.3 (64)	88.1 (62)	88.0 (65)	79.7 (51)	78.5 (41)	80.1 (56)	78.4 (3)	#N/A (0)	#N/A (0)	#N/A (0)
	A223	173	Average Count	89.5 (170)	89.4 (164)	89.0 (169)	80.3 (138)	79.3 (120)	80.2 (133)	76.9 (4)	#N/A (0)	#N/A (0)	#N/A (0)
SkyWest Coml.	E175	771	Average Count	90.6 (753)	89.9 (730)	89.0 (753)	83.9 (699)	83.6 (758)	85.5 (745)	81.8 (719)	91.1 (2)	83.8 (1)	77.3 (1)
Southwest	B38M	296	Average Count	88.3 (293)	87.4 (283)	86.9 (281)	80.6 (212)	80.5 (240)	82.5 (270)	79.4 (129)	91.9 (2)	#N/A (0)	82.3 (2)
	B737	2452	Average Count	91.7 (2400)	91.2 (2330)	89.7 (2378)	84.3 (2216)	84.3 (2407)	85.3 (2370)	82.0 (2345)	91.8 (6)	79.0 (2)	84.4 (1)
	B738	14	Average Count	90.4 (12)	90.8 (12)	87.8 (11)	83.3 (12)	83.2 (12)	84.4 (13)	81.4 (13)	#N/A (0)	#N/A (0)	#N/A (0)

**TABLE 8**  
**MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS**  
**Commuter**  
**July - September 2022**

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delux Public Charters	E135	574	Average Count	85.2 (562)	85.0 (541)	86.1 (554)	78.8 (244)	78.0 (49)	79.4 (274)	75.9 (1)	84.5 (2)	#N/A (0)	#N/A (0)
	E145	32	Average Count	86.0 (32)	86.1 (31)	86.9 (32)	78.9 (18)	78.0 (6)	79.6 (20)	#N/A (0)	#N/A (0)	#N/A (0)	#N/A (0)
SkyWest	CRJ7	90	Average Count	88.3 (87)	87.7 (81)	87.0 (88)	80.2 (36)	80.1 (58)	81.9 (87)	79.7 (62)	90.6 (1)	#N/A (0)	#N/A (0)
	E175	3	Average Count	90.9 (3)	90.0 (3)	89.0 (2)	84.2 (3)	83.1 (3)	85.2 (3)	81.3 (2)	#N/A (0)	#N/A (0)	#N/A (0)

**TABLE 8-GA**  
**MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS**  
**General Aviation**  
**July - September 2022**

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
General Aviation	Jet	5893	Average Count	87.7 (5574)	86.9 (5311)	89.0 (5492)	81.9 (2506)	81.9 (2127)	83.3 (3278)	81.5 (1060)	85.1 (41)	81.5 (8)	81.5 (5)

**TABLE 9**  
**AIR CARRIER OPERATIONAL HISTORY**

Carrier	AC Type	Year					
		2018	2019	2020	2021	2022	
Air Canada	AC	A223				102	192
		B38M				6	314
Alaska	AS	A319	64	244	314		
		A320	262	3,403	1,733	4,038	2,904
		B737	384	160	14	24	110
		B738	8,260	5,247	767	1,327	2,081
Allegiant	G4	A319				1,076	610
		A320				488	1,040
American	AA	A21N		2	2	88	33
		A319	722	432	474	220	316
		A320	78	634	488	783	440
		A321	4	214	571	1,035	756
		B38M				17	1,141
		B738	11,457	10,972	5,201	8,144	6,503
		B752	4	36			
Compass	CP	E175	3,188	3,150	656		
Delta	DL	A220		851	1,954	4,036	2,543
		A223				4	1,426
		A319	1,979	1,987	828	952	1,426
		A320	12	11	8	3	142
		B712	3,379	2,495			
		B737	188	8	24		
		B738	18	40	2	12	38
		B739	2				
		B752	2,889	2,889	1,065	1,423	1,338
		MD90	2				
FedEx	FM	A306	508	510	512	502	374
Frontier	F9	A20N	600	900	550	1,363	1,354
		A319	190	100	2	88	
		A320	654	428	392	361	236
Horizon	QX	DH8D	728	12			
		E175	2,716	4,257	2,986	3,293	1,118
SkyWest Coml.	SC	CRJ9	6		2		
		E175	6,960	7,686	3,535	3,711	3,890
Southwest	WN	B38M	14	10		683	2,642
		B737	32,380	29,360	14,268	22,212	23,090
		B738	64	134	3,780	7,738	1,594
Spirit	NK	A20N			180	1,735	1,763
		A319				250	158
		A320			19	346	688
Sun Country	SY	B737				238	8
		B738				24	2
United	UA	A319	999	1,216	590	819	830
		A320	3,927	3,151	1,227	1,020	1,699
		B737	2,987	2,816	999	2,622	3,299
		B738	5,154	5,627	2,645	2,946	3,997
		B752	4			2	
UPS	5X	A306	22	12	18	18	
		B752	394	404	404	392	304
WestJet	WS	B736	10	58	34		
		B737	666	618	126	112	464
<b>Total</b>			<b>91,875</b>	<b>90,074</b>	<b>46,370</b>	<b>74,253</b>	<b>70,863</b>

**TABLE 10**  
**AIRCRAFT OPERATIONAL HISTORY**

Aircraft	Year				
	2018	2019	2020	2021	2022
A20N	600	900	730	3,098	3,117
A21N		2	2	88	33
A220		851	1,954	4,036	2,543
A223				106	1,618
A306	530	522	530	520	374
A319	3,954	3,979	2,208	3,405	3,340
A320	4,933	7,627	3,867	7,039	7,149
A321	4	214	571	1,035	756
B38M	14	10		706	4,097
B712	3,379	2,495			
B736	10	58	34		
B737	36,605	32,962	15,431	25,208	26,971
B738	24,953	22,020	12,395	20,191	14,215
B739	2				
B752	3,291	3,329	1,469	1,817	1,642
CRJ9	6		2		
DH8D	728	12			
E175	12,864	15,093	7,177	7,004	5,008
MD90	2				
<b>Total</b>	<b>91,875</b>	<b>90,074</b>	<b>46,370</b>	<b>74,253</b>	<b>70,863</b>

**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	.430
Alaska	AS	A319	.088	.334	.432		
		A320	.359	4.660	2.363	5.534	3.975
		B737	.526	.219	.022	.033	.151
		B738	11.315	7.189	1.046	1.816	2.852
Allegiant	G4	A319				1.474	.836
		A320				.668	1.425
American	AA	A21N		.003	.003	.121	.044
		A319	.989	.592	.648	.296	.433
		A320	.107	.868	.664	1.082	.603
		A321	.005	.293	.779	1.414	1.036
		B38M				.022	1.562
		B738	15.696	15.030	7.107	11.156	8.910
		B752	.005	.049			
Compass	CP	E175	4.367	4.315	.896		
Delta	DL	A220		1.164	2.667	5.529	3.485
		A223				.005	1.951
		A319	2.712	2.723	1.131	1.304	1.953
		A320	.016	.014	.014	.003	.195
		B712	4.627	3.419			
		B737	.258	.011	.033		
		B738	.025	.055	.003	.016	.052
		B739	.003				
		B752	3.959	3.956	1.454	1.948	1.833
		MD90	.003				
FedEx	FM	A306	.696	.699	.699	.688	.512
Frontier	F9	A20N	.822	1.233	.751	1.866	1.855
		A319	.260	.137	.003	.121	
		A320	.896	.586	.536	.496	.323
Horizon	QX	DH8D	.997	.016			
		E175	3.721	5.830	4.079	4.512	1.532
SkyWest Coml.	SC	CRJ9	.008		.003		
		E175	9.534	10.529	4.833	5.085	5.329
Southwest	WN	B38M	.019	.014		.937	3.619
		B737	44.351	40.216	19.497	30.416	31.633
		B738	.088	.184	5.161	10.605	2.181
Spirit	NK	A20N			.246	2.381	2.414
		A319				.342	.216
		A320			.025	.471	.942
Sun Country	SY	B737				.326	.011
		B738				.033	.003
United	UA	A319	1.373	1.666	.806	1.123	1.137
		A320	5.375	4.315	1.675	1.397	2.326
		B737	4.093	3.855	1.366	3.589	4.523
		B738	7.058	7.712	3.612	4.036	5.474
		B752	.005			.003	
UPS	5X	A306	.030	.016	.025	.025	
		B752	.540	.553	.552	.537	.416
WestJet	WS	B736	.014	.079	.046		
		B737	.912	.847	.172	.153	.636
<b>Total</b>			125.852	123.384	63.347	101.712	97.068

TABLE 12  
 AIRCRAFT Glossary

AC Type	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
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
E175	Embraer	175
MD90	McDonnell Douglas	90



## **QUARTERLY NOISE MEETING**

Date: September 27, 2022

Time: 2:00 PM

Place: Virtual (Zoom)

### ITEMS DISCUSSED

A summary of the John Wayne Airport (JWA) August 2022 airport statistics was provided by Ms. Cristina Magaña, ANO Specialist. Ms. Magaña stated there was a 24% increase in passenger volume compared to the same period last year. Mr. Nikolas Gaskins, Access and Noise Manager, informed the attendees that the 2022 international passenger increase was due primarily to the service suspension to markets in Canada and Mexico during the pandemic. Mr. Gaskins mentioned that with an increase in passenger totals, carrier operations also increased when compared to 2021.

Dr. Mosher asked if the Airport was concerned with going over the Million Annual Passenger Limitation (MAP). Dr. Mosher stated that Charlene Reynolds, Airport Director, shared at a recent meeting that the Airport warned the carriers that there was a potential of exceeding the MAP Limitation for Plan Year 2022. Mr. Gaskins clarified that the Airport was not in jeopardy of exceeding the MAP Limitation for Plan Year 2022, but that in 2019, the Airport did contact carriers to inform them of high load factors and increasing passenger totals that were projected to near the 10.8 MAP. Mr. Gaskins once again reiterated there were no concerns about exceeding the MAP Limitation. Mr. Gaskins stated that the County takes the Settlement Agreement very seriously and that exceeding the MAP Limitation would be a violation of that agreement.

Newport Beach resident Dennis Bress asked for statistical information about Ontario International Airport (ONT). Mr. Bress is advocating for a transportation tunnel to ONT from Anaheim. Mr. Bress believes this project can alleviate passenger use at JWA.

Mr. Gaskins provided a presentation on the Airport's recently launched voluntary Fly Friendly program. Ms. Cristina Magaña and Mrs. Cassandra Linares, ANO Specialist, then presented an overview of the Quarterly Noise Abatement Report.

Mr. Bress asked if the ANO is aware of Alaska Airlines' noise footprint when departing JWA. Mr. Gaskins explained Alaska will be transitioning to an all Boeing fleet at some point and may begin operating the Boeing 737 MAX 8. Mr. Bress stated Alaska was flying 500 feet lower over Balboa Island in May.

Mr. Joe August asked for a report regarding Table 8 GA Noise Monitoring Station (NMS) 6; since the current report is an average and doesn't capture all operations. Mr. August stated aircraft noise affects the health of those living within the proximity of an airport. Mr. August believes aircraft noise should not exceed 80 dB in the Balboa Island community. Mr. August was going to send an email with his requests.

**QUARTERLY NOISE MEETING ROSTER**  
**September 27, 2022**

**NAME**

**ORGANIZATION**

Dennis Bress

Resident – Newport Beach

Jim Mosher

Resident – Newport Beach

Joe August

Resident – Newport Beach

Unknown Caller

Resident – Irvine

Ron Rubino

Newport Beach Aviation Committee Member

Cassandra Linares

John Wayne Airport

Cristina Magaña

John Wayne Airport

Nikolas Gaskins

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):  
0.0104 Sq. Mi.
2. 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:  
**B757 – 656 (Arrivals + Departures)**
5. Total number of aircraft operations during the calendar quarter:  
82,127
6. Number of Air Carrier operations during the calendar quarter:  
(Not mandatory)  
26,233
7. Percentage of Air Carrier operations by aircraft certified under Federal Aviation Regulation (FAR) Part 36, Stage III:  
(Not mandatory)  
100%
8. Estimated number of operations by General Aviation aircraft during the calendar quarter:  
(Not mandatory)  
55,814
9. Estimated number of operations by Military aircraft during the calendar quarter:  
(Not mandatory)  
80