

JOHN WAYNE AIRPORT
ORANGE COUNTY



NOISE ABATEMENT PROGRAM QUARTERLY REPORT

For the period:
July 1, 2020 through September 30, 2020

Prepared in accordance with:

AIRPORT NOISE STANDARD

STATE OF CALIFORNIA

California Code of Regulations

Airport Noise Standards

Title 21: Public Works

Division 2.5 Division of Aeronautics (Department of Transportation)

Chapter 6. Noise Standards

Submitted by:

A handwritten signature in blue ink, appearing to read "Barry A. Rondinella".

Barry A. Rondinella, A.A.E./C.A.E.
Airport Director
John Wayne Airport, Orange County

INTRODUCTION

This is the 191st 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:

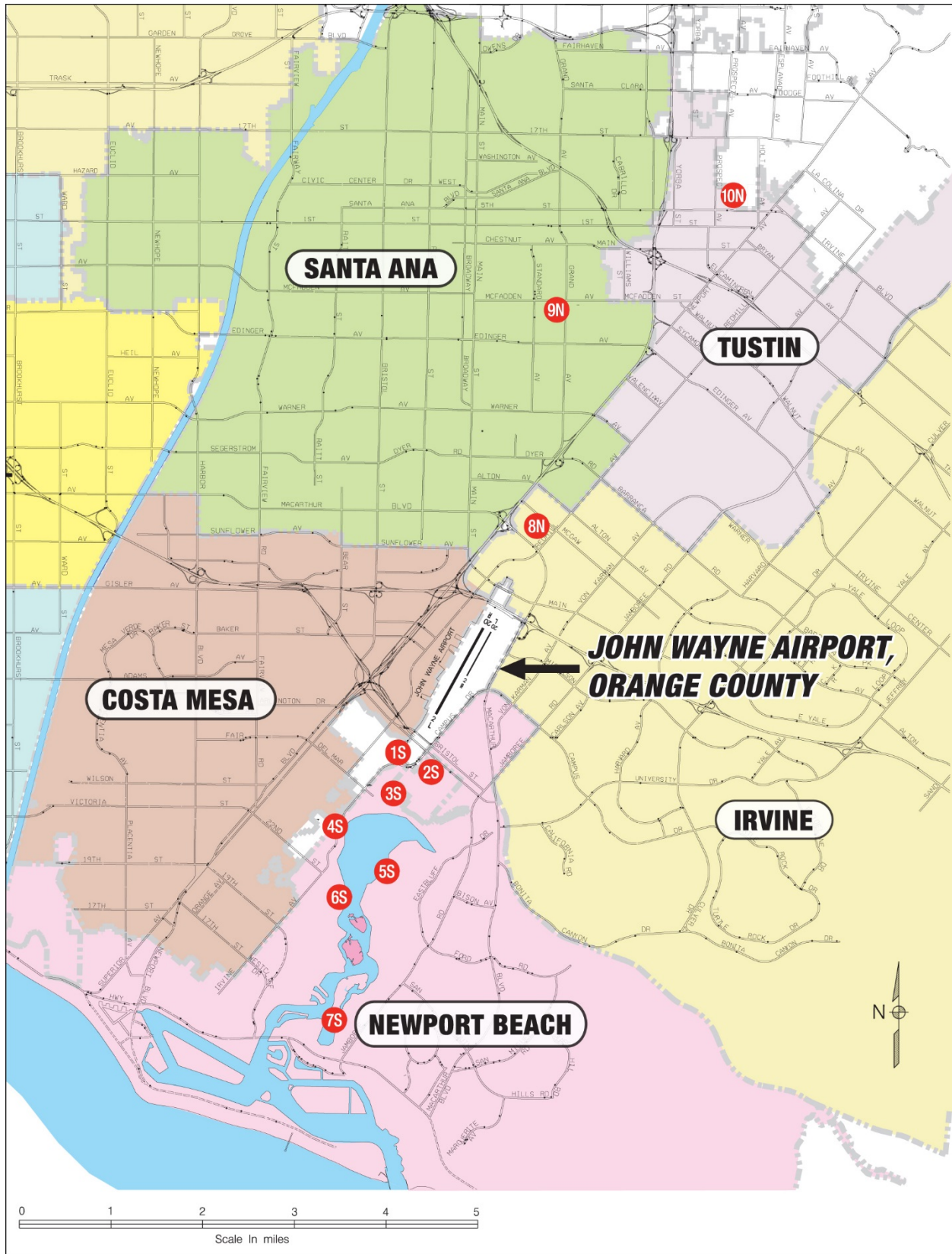
MONITOR STATIONS

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

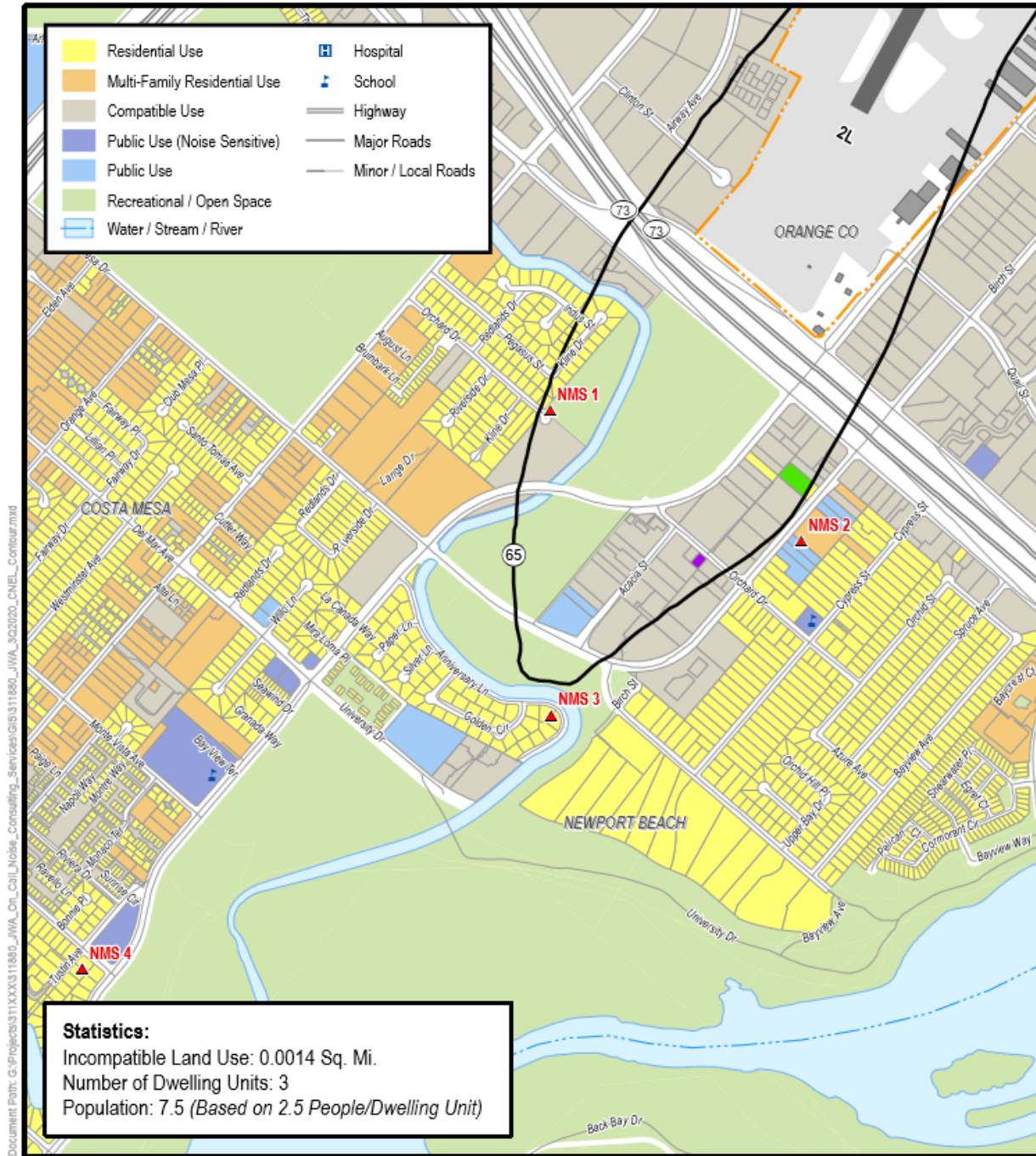
The map in Figure 1 shows the general location of each permanent remote monitor station.

Figure 2 shows the Airport's "Noise Impact Area" for the previous year (October 1, 2019 - September 30, 2020). The Figure 2 information was developed by Harris Miller Miller & 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



INSERT FIGURE 2



Statistics:
 Incompatible Land Use: 0.0014 Sq. Mi.
 Number of Dwelling Units: 3
 Population: 7.5 (Based on 2.5 People/Dwelling Unit)

- ▲ RMT Location
- 2020 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**



2020 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 2020

Period	Air Carriers		GA Jet (1)	Total Operations (2)	Average Daily Jet Operations
	Jet	Prop			
July	4,384	0	0	23,694	141
August	4,400	0	0	22,963	142
September	3,640	0	0	22,844	121
Third Quarter	12,424	0	0	69,501	135
Twelve Months 10/01/19 - 09/30/20	62,852	0	0	246,486	172

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.

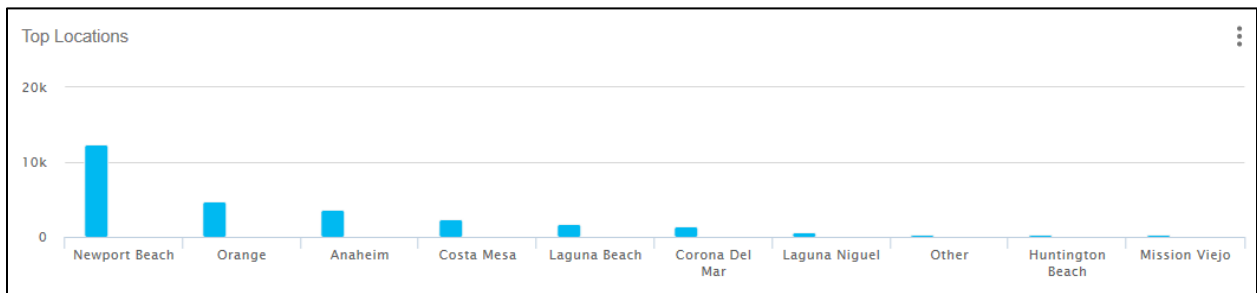
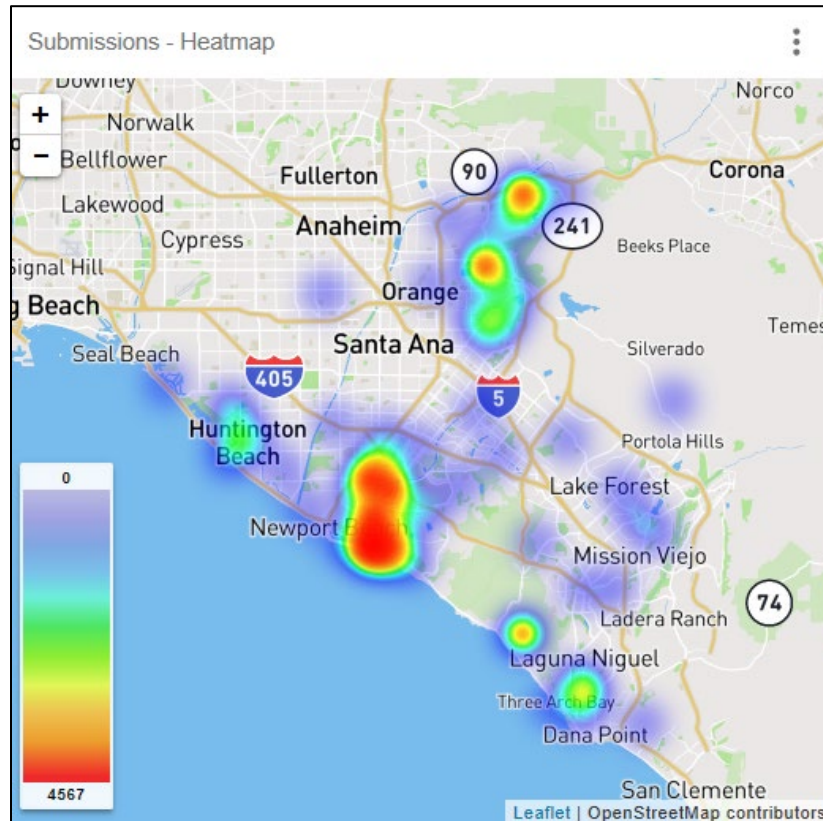
ACOUSTICAL INSULATION PROGRAM

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

COMPLAINT TOTALS (July 1, 2020 - September 30, 2020)

The Airport's Access and Noise Office receives and investigates noise complaints from local citizens and all other sources. During the July 1, 2020 through September 30, 2020, the Office received 27,792 complaints from local citizens. This is a 46.1% increase from the 19,018 complaints received last quarter. It is a 55.9% decrease from the 63,018 complaints received during the same quarter last year. Figure 4 shows the distribution of the quarterly complaints from local communities.

**FIGURE 3
HISTOGRAM BY COMMUNITY**



Note:

- Newport Beach – 12,460 submissions from 42 different points of contact.
- Orange – 4,742 submissions from 7 different points of contact.
- Anaheim – 3,587 submissions from 31 different points of contact.
- Costa Mesa – 2,407 submissions from 13 different points of contact.
- Laguna Beach – 1,790 submissions from 2 different points of contact.
- Corona Del Mar – 1,485 submissions from 4 different points of contact.
- Laguna Niguel – 709 submissions from 3 different points of contact.
- Other -347 submissions from 65 different points of contact.
- Huntington Beach – 327 submissions from 14 different points of contact.
- Mission Viejo – 271 submissions from 2 different points of contact.

TABLE 2
LONG TERM MEASURED LEVELS
Aircraft CNEL from 10/01/19 through 09/30/20
Values in dB at Each Site

Period	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Oct 2019	67.5	66.6	66.3	59.2	58.7	60.1	55.9	67.4	40.7	56.1
# Days	31	31	31	30	31	31	31	31	23	31
Nov 2019	67.8	66.9	66.6	59.3	59.2	60.5	56.4	67.6	42.7	56.6
# Days	30	30	30	30	30	30	30	30	25	30
Dec 2019	68.0	66.8	66.9	60.0	59.8	61.4	57.2	68.1	45.3	57.4
# Days	31	31	31	31	31	31	31	31	28	31
Q-4 2019	67.7	66.8	66.6	59.5	59.3	60.7	56.5	67.7	43.4	56.7
# Days	92	92	92	91	92	92	92	92	76	92
Jan 2020	67.6	66.6	66.5	59.7	59.5	60.6	57.1	67.5	42.8	56.6
# Days	31	31	31	31	31	31	30	30	30	31
Feb 2020	67.1	66.2	66.5	59.3	58.7	60.6	56.0	67.1	42.9	55.4
# Days	29	29	29	27	29	29	29	29	28	29
Mar 2020	65.3	64.7	64.2	58.6	58.0	58.7	55.4	66.6	44.2	55.5
# Days	31	31	31	31	31	31	31	31	27	31
Q-1 2020	66.8	65.9	65.8	59.2	58.8	60.1	56.2	67.1	43.3	55.9
# Days	91	91	91	89	91	91	90	90	85	91
Apr 2020	59.2	58.6	57.7	52.7	51.6	52.0	49.1	60.7	44.9	49.5
# Days	30	30	30	30	30	30	30	30	25	30
May 2020	60.0	59.5	58.9	52.9	51.5	52.4	49.1	61.0	42.4	48.8
# Days	31	31	31	31	31	31	31	31	25	31
Jun 2020	62.1	61.6	61.1	54.4	53.2	54.7	50.8	62.8	41.4	50.8
# Days	30	30	30	30	30	30	30	30	26	30
Q-2 2020	60.6	60.1	59.5	53.4	52.2	53.2	49.7	61.6	43.1	49.8
# Days	91	91	91	91	91	91	91	91	76	91
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
Q-4 2019 thru Q-3 2020										
Total	65.5	64.7	64.4	57.6	57.1	58.4	54.4	65.8	42.8	54.5
# Days	366	366	366	363	366	366	365	365	311	366
Q-3 2019 thru Q-2 2020 (Previous 4 Quarters)										
Total	66.7	65.8	65.6	58.7	58.2	59.4	55.5	66.8	43.1	55.6
# Days	366	366	366	363	366	366	365	362	303	366
Change from Previous 4 Quarters										
	-1.2	-1.1	-1.2	-1.1	-1.1	-1.0	-1.1	-1.0	-0.3	-1.1

TABLE 3
DAILY CNEL VALUES AT EACH MONITOR STATION
July 2020

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	63.4	62.8	62.9	56.5	55.0	56.8	52.4	64.4	27.8	51.6
2	63.8	63.1	63.3	56.8	55.4	57.7	53.2	65.5	45.3	53.6
3	61.9	61.9	61.0	54.1	53.8	55.0	51.1	63.2	43.9	50.4
4	60.3	59.9	58.6	52.4	51.7	52.5	49.0	61.5	36.7	49.4
5	62.6	62.3	61.8	54.0	53.5	55.2	50.4	63.8	35.6	52.0
6	63.5	63.0	62.4	55.4	54.0	55.4	51.3	64.7	34.1	51.9
7	63.8	63.1	62.3	56.3	54.6	55.9	51.5	64.3	40.8	52.0
8	63.5	63.1	62.2	56.5	54.7	56.9	51.7	64.4	37.2	52.1
9	63.7	63.7	62.4	56.1	55.6	56.4	52.1	64.9	33.1	52.9
10	62.9	62.9	61.5	55.5	53.8	54.9	49.3	64.2	38.1	52.1
11	62.7	62.4	61.6	54.8	53.3	54.1	46.8	63.1	42.5	50.6
12	62.9	62.7	61.5	54.1	53.5	54.2	49.4	64.3	42.2	51.7
13	63.6	62.9	62.1	56.2	54.1	55.6	50.6	64.6	40.9	52.7
14	62.8	62.5	61.7	55.9	54.5	55.8	51.2	64.1	*#N/A	52.4
15	62.9	63.0	62.0	56.1	55.4	56.9	51.8	64.5	41.7	51.8
16	63.8	63.4	62.6	56.5	55.8	57.3	52.9	65.0	39.9	53.3
17	63.7	63.6	62.9	56.6	55.6	57.1	52.1	64.6	43.9	53.2
18	62.9	62.9	61.7	55.6	55.0	55.9	51.6	63.3	*#N/A	51.3
19	62.7	62.5	61.7	55.0	54.4	55.2	50.7	64.0	43.4	52.3
20	63.5	63.6	62.4	56.8	55.7	57.1	52.7	64.3	*#N/A	52.6
21	63.5	63.0	62.0	56.3	55.0	56.5	52.3	64.1	38.7	52.5
22	63.5	63.1	62.4	56.2	55.0	56.8	51.4	64.2	42.9	52.8
23	64.0	63.4	62.4	57.1	55.6	56.6	52.4	64.8	31.0	53.2
24	63.6	63.2	62.2	56.9	55.3	56.5	52.1	64.5	42.2	51.8
25	63.1	62.6	61.7	55.8	54.7	55.7	51.5	63.8	*#N/A	51.9
26	62.9	63.0	62.2	55.2	54.9	56.0	51.7	64.4	*#N/A	52.5
27	63.7	63.3	62.2	56.6	55.5	56.5	52.4	64.6	30.2	52.7
28	63.4	63.3	62.4	55.5	55.1	56.3	51.8	64.3	40.1	53.3
29	63.9	64.0	62.7	55.3	55.3	56.3	52.1	64.3	*#N/A	52.5
30	63.9	63.8	63.1	55.2	55.1	56.0	50.7	63.8	37.3	51.5
31	63.3	63.2	62.2	54.1	53.2	53.9	48.3	64.3	29.9	50.4
Days	31	31	31	31	31	31	31	31	25	31
En. Avg	63.3	63.0	62.1	55.8	54.7	56.0	51.4	64.2	40.4	52.2

#N/A indicates insufficient data.

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

TABLE 4
DAILY CNEL VALUES AT EACH MONITOR STATION
 August 2020

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	63.0	62.2	61.8	55.4	53.6	55.1	50.9	63.3	36.4	51.5
2	63.6	62.9	62.3	56.2	54.9	56.2	51.0	64.9	32.7	52.9
3	64.0	63.6	63.0	56.7	55.2	57.1	52.6	64.9	*#N/A	53.2
4	63.4	63.2	62.2	55.2	54.0	55.7	51.6	64.6	43.8	52.6
5	64.4	63.9	63.4	56.1	55.4	57.6	54.3	64.5	38.4	53.0
6	64.2	63.5	63.1	57.2	55.8	57.7	54.7	65.0	42.8	53.4
7	63.3	63.3	62.6	56.7	55.9	56.9	52.9	64.0	36.6	52.6
8	63.1	63.2	61.9	55.7	55.0	55.8	52.9	62.9	36.2	51.5
9	63.6	63.5	62.6	55.9	55.5	56.7	51.5	64.6	43.3	52.2
10	64.5	64.3	63.4	56.4	55.8	56.9	51.4	65.2	46.0	53.0
11	63.4	63.3	61.7	55.1	54.7	55.5	50.1	64.2	*#N/A	52.8
12	63.5	63.1	62.3	55.7	54.4	55.7	51.3	64.6	33.8	53.2
13	63.9	63.3	63.1	54.8	54.4	55.4	49.9	63.9	40.5	51.0
14	63.3	63.0	62.3	54.6	54.5	55.7	52.6	64.4	46.5	52.3
15	62.5	62.0	62.3	54.3	53.6	55.3	51.2	63.0	40.6	51.2
16	63.6	62.6	62.0	55.6	53.2	55.7	51.9	65.2	42.2	53.4
17	64.2	63.7	63.2	55.8	55.0	56.8	52.6	65.2	39.4	51.9
18	63.5	63.2	62.7	55.1	54.3	56.2	51.9	64.4	*#N/A	52.4
19	64.1	63.6	62.9	55.4	54.7	56.4	52.6	64.2	*#N/A	51.6
20	64.4	63.9	63.5	55.8	54.6	56.6	52.5	65.8	*#N/A	53.2
21	63.3	63.0	62.2	55.7	54.1	55.8	51.9	65.0	43.2	52.7
22	62.5	61.8	60.8	54.9	53.3	54.9	51.4	63.5	40.8	50.2
23	63.6	63.2	62.5	55.1	54.7	56.1	52.4	65.1	*#N/A	52.7
24	64.3	64.3	63.3	55.5	55.1	56.5	52.2	64.5	33.0	52.8
25	63.2	63.3	62.3	54.6	55.0	55.9	51.5	63.9	*#N/A	52.6
26	63.7	63.6	62.4	55.1	54.3	55.9	51.8	64.3	41.9	51.5
27	64.6	64.5	63.6	56.1	55.7	57.2	53.1	65.1	46.2	53.4
28	64.0	63.8	62.9	55.7	54.6	55.6	50.2	65.0	34.1	53.3
29	63.1	63.2	61.9	55.3	54.6	56.1	51.5	63.1	46.7	51.3
30	63.7	63.3	62.5	56.0	55.2	56.7	52.3	65.0	#N/A	53.3
31	63.9	63.3	62.6	56.5	55.4	57.2	52.6	64.8	*#N/A	53.2
Days	31	31	31	31	31	31	31	31	22	31
En. Avg	63.7	63.3	62.6	55.7	54.8	56.3	52.1	64.5	42.2	52.5

#N/A indicates insufficient data.

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

TABLE 5
DAILY CNEL VALUES AT EACH MONITOR STATION
September 2020

Date	NMS Site									
	1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
1	63.3	63.0	61.9	56.0	55.2	56.4	52.2	65.0	42.5	53.7
2	64.0	63.8	63.0	55.8	55.6	56.9	51.9	64.4	38.3	53.1
3	65.5	65.3	64.5	56.9	56.1	58.0	53.5	65.7	44.8	53.3
4	65.6	65.1	65.2	57.7	56.4	58.2	53.6	65.8	37.9	52.7
5	62.5	62.0	61.2	53.0	52.3	53.6	49.5	61.6	41.6	48.7
6	61.5	60.6	59.9	52.0	50.6	52.4	49.3	63.0	30.3	50.7
7	64.7	63.7	63.8	56.8	54.4	56.7	52.1	65.0	40.6	53.1
8	64.4	63.4	63.3	57.1	55.1	56.7	51.9	63.8	38.7	52.2
9	63.7	64.0	62.8	55.0	54.8	55.9	51.6	64.4	33.8	52.2
10	63.4	63.3	62.4	54.6	53.4	54.6	50.9	63.8	40.7	51.0
11	63.8	63.5	62.5	54.0	53.9	55.0	50.7	63.7	38.7	51.3
12	62.2	62.2	61.5	53.6	53.3	54.2	50.2	62.6	*#N/A	51.5
13	63.1	62.7	62.2	54.1	53.7	55.0	50.8	63.7	41.1	52.7
14	62.8	62.8	62.4	54.9	54.5	55.5	51.3	64.2	28.3	52.1
15	62.4	62.6	61.7	53.3	53.3	54.5	50.5	62.8	*#N/A	50.5
16	62.7	62.8	62.5	53.8	53.6	54.6	50.2	63.3	40.2	50.4
17	63.7	63.5	62.2	52.2	51.3	51.9	47.4	63.2	*#N/A	48.3
18	63.8	63.5	62.5	54.1	52.2	53.5	49.2	64.3	34.5	51.5
19	62.9	62.3	62.1	54.2	53.1	54.7	49.8	63.4	31.1	50.8
20	63.8	63.2	63.0	55.5	54.0	55.7	50.4	65.1	37.0	52.9
21	64.9	64.3	63.8	56.4	55.4	56.7	50.9	64.4	33.8	53.1
22	63.7	63.5	62.4	55.2	54.2	55.3	50.2	63.6	41.8	51.9
23	63.4	63.2	62.9	55.3	54.7	55.8	52.1	63.5	34.7	51.6
24	64.5	64.1	63.4	56.4	54.8	56.8	52.7	64.2	45.3	52.5
25	64.5	63.9	63.7	56.4	55.0	57.1	53.0	64.2	33.2	52.9
26	63.5	63.0	62.5	56.0	54.3	55.9	51.6	63.2	37.5	51.7
27	63.6	62.9	62.7	55.1	53.8	55.6	51.2	64.4	40.4	52.6
28	64.3	64.0	63.3	55.6	55.0	56.3	52.2	63.9	36.9	52.0
29	63.3	62.8	62.0	53.2	53.1	54.6	50.2	63.0	29.6	51.7
30	62.8	62.3	61.9	52.5	52.6	53.7	49.9	62.7	36.9	50.0
Days	30	30	30	30	30	30	30	30	27	30
En. Avg	63.7	63.3	62.8	55.1	54.2	55.6	51.2	64.0	39.4	51.9

#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 2020

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Alaska Air	A320	144	Average Count	94.5 (141)	94.2 (142)	92.7 (143)	86.0 (141)	83.7 (141)	84.9 (139)	82.1 (140)	#N/A (0)	#N/A (0)	#N/A (0)
	B737	2	Average Count	94.8 (2)	94.4 (2)	94.1 (2)	86.3 (2)	87.1 (2)	88.9 (2)	84.1 (2)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	3	Average Count	95.0 (3)	94.7 (3)	93.1 (2)	86.6 (3)	86.2 (3)	86.3 (3)	83.4 (3)	#N/A (0)	#N/A (0)	#N/A (0)
American	A320	109	Average Count	93.4 (108)	93.3 (107)	92.0 (108)	85.1 (106)	83.8 (102)	84.4 (104)	81.2 (82)	#N/A (0)	#N/A (0)	#N/A (0)
	A321	64	Average Count	98.0 (63)	97.7 (63)	95.7 (61)	87.5 (62)	85.9 (62)	86.5 (63)	82.9 (60)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	661	Average Count	97.7 (643)	97.0 (631)	96.1 (650)	89.0 (627)	88.2 (640)	89.1 (637)	85.3 (638)	95.7 (1)	88.7 (1)	#N/A (0)
Delta	A220	211	Average Count	86.1 (208)	86.4 (207)	84.8 (206)	79.8 (161)	78.4 (74)	79.2 (101)	80.7 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	A319	61	Average Count	95.2 (59)	94.6 (60)	94.2 (57)	86.7 (59)	85.4 (60)	86.2 (59)	81.1 (56)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	1	Average Count	95.9 (1)	95.0 (1)	92.9 (1)	87.4 (1)	84.1 (1)	85.7 (1)	80.9 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	B752	82	Average Count	95.1 (81)	95.1 (79)	93.9 (80)	87.1 (78)	85.6 (80)	85.8 (80)	81.3 (70)	#N/A (0)	#N/A (0)	#N/A (0)
FedEx	A306	64	Average Count	97.2 (63)	97.3 (62)	94.5 (62)	88.5 (60)	87.9 (62)	89.3 (63)	85.1 (63)	#N/A (0)	#N/A (0)	#N/A (0)
Frontier Airlines	A20N	60	Average Count	87.4 (60)	87.7 (59)	86.8 (59)	80.7 (48)	78.9 (26)	81.4 (45)	79.3 (8)	#N/A (0)	#N/A (0)	#N/A (0)
	A320	79	Average Count	94.1 (77)	94.1 (77)	91.8 (77)	85.6 (75)	84.2 (77)	85.9 (75)	83.3 (74)	#N/A (0)	#N/A (0)	#N/A (0)
Horizon Air	E175	540	Average Count	91.8 (530)	91.4 (521)	89.4 (524)	84.3 (520)	83.8 (529)	85.9 (527)	82.0 (520)	#N/A (0)	#N/A (0)	#N/A (0)
Southwest	B737	1130	Average Count	89.9 (1102)	90.0 (1095)	88.0 (1102)	83.4 (1082)	82.9 (1101)	83.8 (1091)	80.5 (973)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	533	Average Count	91.3 (524)	91.4 (519)	88.4 (515)	83.0 (517)	83.1 (525)	84.0 (526)	81.1 (505)	#N/A (0)	#N/A (0)	#N/A (0)
United	A320	276	Average Count	93.3 (270)	92.9 (267)	92.1 (269)	85.3 (253)	83.5 (260)	84.5 (268)	79.8 (175)	#N/A (0)	#N/A (0)	#N/A (0)
	B737	94	Average Count	94.4 (93)	93.6 (90)	94.3 (94)	89.4 (89)	89.2 (94)	89.4 (93)	84.0 (86)	#N/A (0)	#N/A (0)	#N/A (0)
	B738	203	Average Count	97.4 (198)	96.5 (194)	97.1 (196)	89.2 (195)	89.0 (198)	89.2 (195)	85.6 (195)	#N/A (0)	#N/A (0)	#N/A (0)
UPS	B752	52	Average Count	95.3 (51)	95.4 (50)	94.1 (51)	86.9 (50)	86.6 (51)	88.0 (51)	83.3 (50)	#N/A (0)	#N/A (0)	#N/A (0)

TABLE 7
MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS
Commercial Class E
July - September 2020

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Horizon Air	E175	4	Average Count	91.8 (4)	91.2 (4)	89.2 (3)	84.6 (4)	83.7 (4)	85.9 (4)	81.9 (4)	#N/A (0)	#N/A (0)	#N/A (0)
SkyWest Coml.	E175	338	Average Count	88.7 (329)	89.0 (316)	87.7 (334)	83.8 (313)	82.7 (320)	83.7 (324)	81.4 (287)	#N/A (0)	#N/A (0)	#N/A (0)
Southwest	B737	745	Average Count	88.9 (731)	89.3 (711)	87.2 (726)	82.9 (712)	82.4 (726)	83.1 (719)	80.1 (631)	#N/A (0)	#N/A (0)	#N/A (0)

TABLE 8
MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS
Commuter
July - September 2020

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
Delux Public Charters	E135	263	Average Count	85.1 (255)	85.3 (244)	86.0 (256)	79.7 (147)	77.9 (19)	79.5 (115)	76.7 (1)	#N/A (0)	#N/A (0)	#N/A (0)
	E145	52	Average Count	85.7 (52)	85.9 (51)	86.5 (52)	79.2 (24)	77.5 (3)	79.1 (25)	#N/A (0)	#N/A (0)	#N/A (0)	#N/A (0)
SkyWest	CRJ7	91	Average Count	86.8 (88)	87.3 (88)	86.0 (89)	80.0 (28)	80.2 (55)	80.5 (84)	79.0 (55)	#N/A (0)	#N/A (0)	#N/A (0)
	E175	342	Average Count	89.5 (326)	89.5 (327)	87.9 (330)	84.0 (321)	82.8 (322)	84.1 (322)	81.8 (312)	#N/A (0)	#N/A (0)	#N/A (0)

TABLE 8-GA
MEASURED AVERAGE SINGLE EVENT NOISE EXPOSURE LEVELS
General Aviation
July - September 2020

Carrier	AC Type	# Deps		NMS Site									
				1S	2S	3S	4S	5S	6S	7S	8N	9N	10N
General Aviation	Jet	4545	Average Count	87.7 (4321)	87.2 (4224)	88.9 (4246)	82.3 (2128)	81.8 (1615)	83.4 (2449)	81.5 (778)	86.4 (11)	#N/A (0)	78.8 (2)

TABLE 9
AIR CARRIER OPERATIONAL HISTORY

Carrier	AC Type	Year					
		2016	2017	2018	2019	2020	
Alaska Air	AS	A319			64	244	314
		A320			262	3,403	1,140
		B734	76	24			
		B737	3,258	1,233	384	160	10
		B738	4,439	6,420	8,260	5,247	746
American	AA	A21N				2	
		A319	178	332	722	432	174
		A320	868	266	78	634	471
		A321	563	56	4	214	416
		B738	10,538	11,556	11,457	10,972	4,046
Compass	CP	B752	74	4	4	36	
		E170	152	78			
		E175	1,669	2,726	3,188	3,150	656
		A220				851	1,566
Delta	DL	A319	3,444	2,053	1,979	1,987	559
		A320	160	94	12	11	7
		B712		3,267	3,379	2,495	
		B737		146	188	8	24
		B738		40	18	40	2
		B739			2		
		B752	2,128	2,137	2,889	2,889	771
		MD90			2		
FedEx	FM	A306	510	506	508	510	384
Frontier Airlines	F9	A20N*			600	900	362
		A319	646	356	190	100	2
		A320	740	628	654	428	294
		A321	2				
		A32N*	12	438			
Horizon Air	QX	DH8D	1,156	1,456	728	12	
		E175		339	2,716	4,257	2,017
SkyWest Coml.	SC	CRJ9	1,899	1,440	6		2
		E175	3,554	4,761	6,960	7,686	2,703
Southwest	WN	B38M		2	14	10	
		B737	41,806	35,971	32,380	29,360	12,544
		B738	1,144	58	64	134	1,485
United	UA	A319	1,999	1,470	999	1,216	582
		A320	2,670	3,957	3,927	3,151	978
		B737	5,246	4,044	2,987	2,816	825
		B738	1,252	3,302	5,154	5,627	2,000
		B752		2	4		
UPS	5X	A306	52	45	22	12	
		B752	370	369	394	404	312
WestJet	WS	B736	32	30	10	58	34
		B737	642	644	666	618	126
Total			91,279	90,250	91,875	90,074	35,552

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

TABLE 10
AIRCRAFT OPERATIONAL HISTORY

Aircraft	Year				
	2016	2017	2018	2019	2020
A20N*			600	900	362
A21N				2	
A220				851	1,566
A306	562	551	530	522	384
A319	6,267	4,211	3,954	3,979	1,631
A320	4,438	4,945	4,933	7,627	2,890
A321	565	56	4	214	416
A32N*	12	438			
B38M		2	14	10	
B712		3,267	3,379	2,495	
B734	76	24			
B736	32	30	10	58	34
B737	50,952	42,038	36,605	32,962	13,529
B738	17,373	21,376	24,953	22,020	8,279
B739			2		
B752	2,572	2,512	3,291	3,329	1,083
CRJ9	1,899	1,440	6		2
DH8D	1,156	1,456	728	12	
E170	152	78			
E175	5,223	7,826	12,864	15,093	5,376
MD90			2		
Total	91,279	90,250	91,875	90,074	35,552

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

TABLE 11
AIR CARRIER AVERAGE DAILY DEPARTURE HISTORY

Carrier	AC Type	Year					
		2016	2017	2018	2019	2020	
Alaska Air	AS	A319			.088	.334	.432
		A320			.359	4.660	1.552
		B734	.104	.033			
		B737	4.451	1.693	.526	.219	.016
		B738	6.066	8.789	11.315	7.189	1.019
American	AA	A21N				.003	
		A319	.243	.455	.989	.592	.238
		A320	1.186	.364	.107	.868	.639
		A321	.770	.077	.005	.293	.568
		B738	14.402	15.827	15.696	15.030	5.530
Compass	CP	B752	.101	.005	.005	.049	
		E170	.208	.107			
		E175	2.279	3.734	4.367	4.315	.896
Delta	DL	A220				1.164	2.137
		A319	4.705	2.811	2.712	2.723	.765
		A320	.219	.129	.016	.014	.011
		B712		4.471	4.627	3.419	
		B737		.200	.258	.011	.033
		B738		.055	.025	.055	.003
		B739			.003		
		B752	2.910	2.926	3.959	3.956	1.052
		MD90		.003			
FedEx	FM	A306	.697	.693	.696	.699	.525
Frontier Airlines	F9	A20N*			.822	1.233	.495
		A319	.883	.488	.260	.137	.003
		A320	1.011	.860	.896	.586	.402
		A321	.003				
		A32N*	.016	.600			
Horizon Air	QX	DH8D	1.579	1.995	.997	.016	
		E175		.466	3.721	5.830	2.754
SkyWest Coml.	SC	CRJ9	2.593	1.975	.008		.003
		E175	4.855	6.523	9.534	10.529	3.697
Southwest	WN	B38M		.003	.019	.014	
		B737	57.104	49.274	44.351	40.216	17.145
		B738	1.563	.079	.088	.184	2.025
United	UA	A319	2.730	2.014	1.373	1.666	.795
		A320	3.648	5.422	5.375	4.315	1.336
		B737	7.169	5.534	4.093	3.855	1.128
		B738	1.710	4.526	7.058	7.712	2.730
		B752		.003	.005		
UPS	5X	A306	.071	.060	.030	.016	
		B752	.505	.507	.540	.553	.426
WestJet	WS	B736	.044	.041	.014	.079	.046
		B737	.877	.882	.912	.847	.172
Total			124.699	123.622	125.852	123.384	48.571

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

TABLE 12
AIRCRAFT Glossary

AC Type	Make	Model/Series
A20N	Airbus	320-200 Neo
A306	Airbus	300-600
A310	Airbus	310-200
A320	Airbus	320
A32N	Airbus	320-200 Neo
B38M	Boeing	737-800 Max
B712	Boeing	717-200
B733	Boeing	737-300
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

QUARTERLY NOISE MEETING

Date: September 16, 2020

Time: 2:00 PM

Place: Airport Commission Room

ITEMS DISCUSSED

Nikolas Gaskins discussed summary of JWA airport statistics for the most recent month July 2020. Through July we were at 2.4 million passengers in comparison to 2019, we were at 6.2 million passengers (down by 60% due to pandemic). GA is slightly increasing compared to last year not by much. Cargo has increased but overall has decreased by 4% in the past year. Service to Canada and Mexico was cancelled due to travel restrictions.

Mr. Gaskins introduced new carrier, Spirit Airlines. This decision to bring a new entrant was decided by the Airport Director. Spirit was allocated three Average Daily Departures (ADDs) and plan to operate the Airbus A320neo aircraft. Mr. Gaskins shared the Airport expects quieter aircraft to operate at JWA in future years as carriers shift to newer technology aircraft.

Mr. Gaskins shared that the Access and Noise Office is currently working on capacity allocations for Plan Year 2021. He also mentioned the Million Annual Passenger (MAP) increase to 11.8 and the ten additional ADDs, effective January 1, 2021. Mr. Gaskins also explained that due to the pandemic, it does not appear that the Airport will near the 11.8 MAP in the next two to three years. Mr. Gaskins stated that Plan Year 2021 allocations will be submitted to the Airport Commission on October 21, 2020 and will then be going to the Board of Supervisors on November 3, 2020. Also, Mr. Gaskins mentioned that JetSuiteX did submit a capacity allocation request to operate from an FBO terminal. Per the new FBO lease agreements, Regularly Scheduled Air Service is not permitted to at an FBO terminal.

Dr. Jim Mosher asked when changes would go into effect regarding FBO terminal service. Mr. Gaskins informed Mr. Mosher that changes would take place starting January 1, 2020.

Dr. Mosher asked if the construction taking place at Jay's Maintenance was part of the FBO construction that is due to take place. Mr. Gaskins did not have specifics on the schedule for construction regarding Jay's Maintenance.

Dr. Mosher asked if the capacity allocation minimum requirements would be waived for 4th quarter. Mr. Gaskins advised 4th quarter would be waived, however in the upcoming year, carriers will be required to return capacity since minimums will not be waived.

Dr. Mosher asked where load factors currently stand. Mr. Gaskins informed Dr. Mosher load factors are in the mid-sixties. Mr. Gaskins also mentioned that some carriers are blocking seats and other carriers do not have high load factors or have decreased in frequency. Dr. Mosher then asked if Delta was blocking seats. Anthony Cangey advised Mr. Mosher that he believes Delta is also blocking seats.

Mr. Gaskins shared that Harris Miller Miller & Hanson, Inc. (HMMH) has been hired as the Airport's acoustical engineering consultant, effective September 2020. Dr. Mosher asked if they would be doing monitor calibrations. Mr. Gaskins informed Dr. Mosher, BridgeNet International completes annual calibrations for noise monitoring stations.

Dr. Mosher mentioned that the current contour photo should be updated to show correct information regarding number of people, as well as correcting the quarterly noise report title page. Mr. Gaskins informed changes will be made in future quarterly noise reports.

A discussion was held regarding current number of staff and Orange County hire freeze.

QUARTERLY NOISE MEETING ROSTER

September 16, 2020

NAME

ORGANIZATION

Jim Mosher

Resident – Newport Beach

Anthony Cangey

John Wayne Airport

Beatrice Siercke

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):
0.0014 Sq. Mi.
2. Estimated Number of dwelling units included in the Noise Impact Area as defined in the Noise Standards:
3
3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:
7.5 (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:
B-737-800 - 2,761 (Arrivals + Departures)
5. Total number of aircraft operations during the calendar quarter:
69,501
6. Number of Air Carrier operations during the calendar quarter:
(Not mandatory)
12,424
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)
56,975
9. Estimated number of operations by Military aircraft during the calendar quarter:
(Not mandatory)
102