Quarterly Noise Report

For the California Department of Transportation

First Quarter – Calendar Year 2021

SAN DIEGO
INTERNATIONAL AIRPORT
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Aircraft Noise Mitigation

May 17, 2021

Q1 2021 Quarterly Noise Report

January 1 through March 31, 2021

The California Department of Transportation, Division of Aeronautics, granted a Variance from the requirements of Section 5012, Chapter 2.5, Subchapter 6, Title 21, of the California Administrative Code to the San Diego County Regional Airport Authority (Airport Authority) for the operation of San Diego International Airport (SDIA) on September 2, 2019.

This Quarterly Report was prepared by the Aircraft Noise Mitigation Staff at SDIA, in accordance with the Airport Noise Standards, State of California.

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Summary of Statistical Information for the California Department of Transportation

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

    - Noise Impact Area (N.I.A) – 0.035 Square Miles (22.4 Acres)
    - Federal Military Impact Area (F.M.I.A.) – 0.056 Square Miles (35.84 Acres)

2. Estimated number of dwelling units and population within the Noise Impact Area as defined in the Noise Standards:

    - Dwelling Units - 570* (Population – 974*)

3. Number of Noise Complaints and Households during the Calendar Quarter:

    - 18,137 Complaints (117 Households)

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

    - Airbus A321 (3,405 Operations)

5. Number of Air Carrier Operations during the Calendar Quarter: 23,807

6. Percentage of Air Carrier Operations by aircraft certificated under Federal Aviation Regulation (FAR) Part 36, Stage 3:

    - 100%

7. Number of General Aviation Operations during the Calendar Quarter: 1,951

8. Number of Air Taxi Operations during the Calendar Quarter: 2,757

9. Number of Military Operations during the Calendar Quarter: 294

10. Total number of Airport Operations during the Calendar Quarter: 28,809

Reference: Form DOA 617, 10/89

* Population and dwelling unit calculations are based upon 2010 Census Block Boundary Data.

Note: Airport Operation counts are taken from the FAA Air Traffic Activity Data System (ATADS) https://aspm.faa.gov/opsnet/sys/Airport.asp

Noise Impact Areas

Using data generated from the Airport Noise and Operations Monitoring System (ANOMS) and Geographic Information System (GIS), the Airport Noise consultant Harris, Miller, Miller & Hanson Inc.'s (HMMH) developed the Noise Contour and determined the current Noise Impact Area (N.I.A.) and the Federal Military Impact Area (F.M.I.A.). Table 1 below contains square mile area for the Quarter compared to the same period last year.

Impact Area	Q1 2021	Q1 2020	Change
N.I.A.	0.035	0.624	-0.589
F.M.I.A.	0.056	0.132	-0.076

Table 1

Noise Contour

The Noise Contour on the subsequent page is prepared for the Airport Authority by their consultant HMMH Inc. using their RealContours for Aviation Environmental Design Tool (AEDT) software. AEDT is a state of the art software system that models aircraft performance in space and time to estimate fuel consumption, emissions, noise, and air quality consequences.

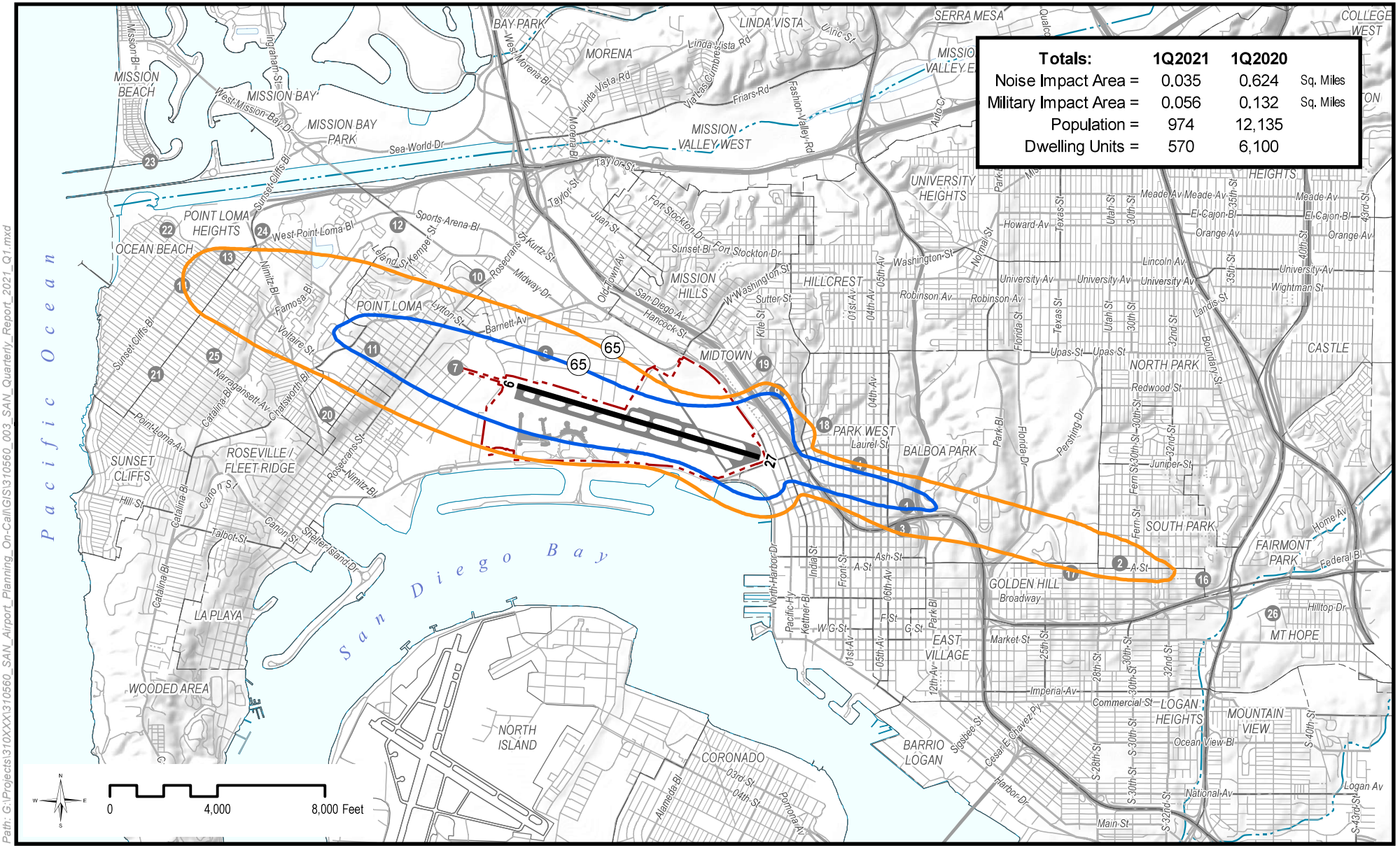
The use of GIS technology allows for direct counting of individual parcels within the Noise Contour. The modeling methodology fulfills the requirements of the State of California, Title 21, California Noise Standards. A review of measured and modeled noise levels indicate good agreement between several key measurement locations.

Key observations contributing to the contour reduction compared with the same one year period from last year –

- This quarter's contour represents a full year of COVID impacts on noise. Projected traffic growth makes it likely this will be the smallest contour we will see as a result of COVID.
- 46% reduction in Total Operations
- 20% increase in the use of Stage 4 aircraft, a continuation of the trend observed in the 4th quarter of 2020.

Due to COVID we expect these irregular conditions to continue until there is a substantial amount of recovery in the level of air service at the SDIA.

Data Sources: San Diego International Airport; San Diego Association of Governments (SANDAG); City of San Diego and County of San Diego (SanGIS); Environmental Systems Research Institute, Inc. (ESRI); U.S. Census Blocks 2010



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Comparison of the 2020 and 2021 First Quarter 65 dB Community Noise Equivalent Level (CNEL) Contours

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Residential Sound Insulation Program (RSIP)

Per the requirements of the Airport's Variance agreement, the Airport Authority is the sponsor to an active Residential Sound Insulation Program (RSIP), also known as the Quieter Home Program (QHP). Funding for the program is provided by grants awarded from the Airport Improvement Plan (AIP) component of the FAA's Airport and Airway Trust Fund (AATF), Airport Operating Revenues, and fines issued for non-compliance with Airport Authority Code 9.40, Airport Use Regulations.

To date, the RSIP/QHP has completed 4,486 homes with a current waitlist of 1,199 units.

Aircraft Noise Complaints

During the Quarter, the Aircraft Noise Office received a total of 18,137 complaints from 117 households. Where possible, complaints are correlated with a specific flight and examined for validity. Complaints are tabulated and reported on the Authority website on a monthly basis. This information can be retrieved by visiting the following website:

https://public.tableau.com/profile/noise.disclosure#!/vizhome/SANQHPDashboard/SANQHP

Quarterly Airport Operations Statistics

The Federal Aviation Administration captures and makes available to the public Air Traffic Control Tower Counts on a monthly basis in its Air Traffic Activity Data System (ATADS) database. Table 2 below contains statistics of itinerant aircraft operations by FAA category for the Calendar Year Quarter compared to the same period last year.

Operations	1st Quarter 2021	1st Quarter 2020	Net Change	Percent Change
Air Carrier	23,807	47,820	(24,013)	-50.2%
Air Taxi	2,757	2,907	(150)	-5.2%
General Aviation	1,951	1,933	18	0.9%
Military	294	211	83	39.3%
Total	**28,809**	**52,871**	**(24,062)**	**-45.5%**

Table 2

Note: ATADS data is typically available to the public by the third week of the following month. Current and historical operations data can be extracted at the following website:

https://aspm.faa.gov/opsnet/sys/Airport.asp

Airport Use Regulations

Airport Authority Code 9.40, Airport Use Regulations, defines Time of Day Use Restrictions (Curfew) for all Airport operators at SDIA. The Regulations restrict daily departures between the hours of 11:30 p.m. and 6:30 a.m. the following morning for Stage 3 (or better) compliant aircraft, and between 10:00 p.m. and 7:00 a.m. for non-complaint aircraft. Additionally, Air Carriers are only permitted to publish scheduled gate departure times between the hours 6:15 a.m. and 11:15 p.m. daily. Medical Evacuation/Lifeguard departures are exempt from the Restrictions.

Curfew violations are reported to the Curfew Violation Review Panel (CVRP) comprised of three (3) staff members appointed by the Executive Leadership Team of the Authority. The membership includes one (1) representative from each of the following Divisions: Airport Operations, Airport Development, and Finance. The Panel examines data and documentation collected during an investigation of alleged violations, and makes recommendations to the Program Manager, Aircraft Noise, for the disposition of the violation.

Fine levels associated with the Airport Use Regulations are based on the number of violations in the two evaluation periods (January through June and July through December each year). The fines are subject to a multiplier for each penalized violation in the previous evaluation period. The base fines are $2,000 for the first penalized violation, $6,000 for the second penalized violation, and $10,000 for each subsequent violation in the given evaluation period. If a carrier has a fined violation in the previous evaluation period, the base fine is multiplied by the number of penalized violations in the previous evaluation period.

Example:

An operator has two (2) fined violations in the January through June period. If they have a violation between July and December, the base fine level of $2,000 would increase to $4,000, a second violation increases from $6,000 to $12,000 and a third or any subsequent violations increases from $10,000 to $20,000

During the Quarter there were no curfew violations.

Airport Noise Advisory Committee (ANAC)

The Airport Authority recognizes that neighborhoods surrounding SDIA are affected by noise from aircraft operations. An Airport Noise Advisory Committee (ANAC), consisting of individuals from various organizations, residential areas, and professional associations, was formed in 1981 under the San Diego Unified Port District (SDUPD), the previous proprietor of SDIA. ANAC is formally adopted as Airport Authority Policy 9.20.

Further information regarding the ANAC can be found at the following website:

https://www.san.org/Airport-Noise/Initiatives

Quarterly and Annual CNEL Data

A summary of the Quarterly and Annual CNEL data is shown in Table 3 below. The levels are calculated utilizing the data found in the Aircraft Noise Monitoring System section which captures the Remote Monitoring Terminals (RMT) thresholds and Daily/Monthly CNEL Logs.

RMT#	Quarter CNEL (dB)	Annual CNEL (dB)
1	66.0	65.2
2	62.0	61.2
3	61.5	59.7
4	61.0	60.5
6	65.1	64.4
7	69.1	68.6
9	61.7	60.7
10	59.6	58.4
11	66.0	65.4
12	57.2	56.7
13	60.8	60.0
14	60.8	60.3
16	60.4	59.4
17	60.3	59.6
18	55.7	53.9
19	59.1	57.5
20	56.9	55.9
21	54.5	53.7
22	59.4	58.8
23	57.3	56.4
24	58.6	57.6
25	58.0	57.2
26	59.5	58.3

Table 3

Notes:

- Annual CNEL data is a rolling 12-month period.
- RMTs #5, #8 and #15 are no longer operational as the noise impact boundary has decreased in size.

Single Event Noise Exposure Level (SENEL) Comparison

The average Single Event Noise Exposure Level (SENEL) of the loudest 25% of the Operations Survey is shown in Table 4 below. For each Quarter, the data used to compile this section of the report is captured on Tuesday through Thursday during the second week of February, May, August and November (Quarterly midpoint). The supporting data is listed in Tables 5 through 7 on subsequent pages. Tables 5 and 6 show the top 25% of operations during the capture period. Table 7 contains the average daily operations by runway, time of day, operation type, and aircraft type.

	Q1 2021	Q1 2020	Change (dB)
Departures	97.9	94.4	3.5
Arrivals	94.0	96.9	-2.8

Table 4

Table 5

Quarterly SENEL Survey – Arrivals (RMT #1) – February 11-13, 2021

Date/Time	SENEL (dB)	FLIGHT	ORIGIN	AC TYPE
2/12/21 11:58 AM	96.5	UPS922	SDF	B763
2/12/21 6:25 AM	96.1	FDX1754	IND	B763
2/12/21 6:40 PM	95.4	FDX1422	MEM	B763
2/13/21 5:49 PM	95.2	FDX3713	IND	B763
2/11/21 9:08 PM	95.0	FDX906	MEM	B763
2/13/21 9:05 AM	94.6	FDX1456	MEM	B763
2/11/21 6:55 AM	94.5	FDX1754	IND	B763
2/11/21 3:25 PM	94.4	FDX1422	MEM	B763
2/13/21 8:52 PM	94.3	FDX906	MEM	B763
2/12/21 11:10 AM	94.2	SWA496	OAK	B738
2/12/21 11:38 AM	94.1	UAL2358	IAH	B739
2/13/21 5:53 AM	94.1	FDX1754	IND	B763
2/12/21 6:44 PM	94.0	FDX906	MEM	B763
2/11/21 5:04 AM	94.0	FDX1889	OAK	B752
2/11/21 11:24 AM	94.0	UPS922	SDF	B763
2/12/21 11:51 AM	93.8	SWA3	HOU	B738
2/12/21 9:20 AM	93.6	SWA5046	SJC	B738
2/13/21 4:46 PM	93.5	UAL388	ORD	B739
2/12/21 12:43 PM	93.5	UAL1508	DEN	B739
2/11/21 3:21 PM	93.5	SWA1877	DEN	B738
2/11/21 6:45 AM	93.4	FDX856	LAS	B752
2/12/21 4:11 PM	93.4	SWA4536	PHX	B738
2/12/21 8:13 AM	93.4	ASA550	BOI	B739
2/12/21 9:57 AM	93.3	QXE2562	RDM	E75L
2/12/21 5:23 AM	93.2	FDX1189	AFW	B752
2/12/21 12:06 PM	93.1	SWA3514	DEN	B738
2/12/21 10:46 AM	93.1	SWA735	DAL	B738
2/13/21 7:27 AM	93.0	SWA3695	OAK	B738
2/12/21 11:03 AM	93.0	AAL811	ORD	B738
2/12/21 11:31 AM	93.0	UAL2066	ORD	B739
2/11/21 5:26 AM	93.0	FDX1189	AFW	B752
2/12/21 12:04 PM	93.0	DAL2032	SLC	B738

Table 6

Quarterly SENEL Survey – Departures (RMT #1) – February 11-13, 2021

Date/Time	SENEL (dB)	FLIGHT	ORIGIN	AC TYPE
2/13/21 8:45 AM	100.9	AAL1909	CLT	A321
2/12/21 1:29 PM	98.9	ASA1137	SEA	B738
2/12/21 8:08 AM	98.7	AAL1909	CLT	A321
2/11/21 7:08 AM	98.7	DAL820	ATL	B739
2/13/21 10:52 AM	98.6	ASA829	OGG	B738
2/13/21 7:16 AM	98.4	DAL820	ATL	B739
2/11/21 8:17 AM	98.4	UAL2472	IAH	B739
2/11/21 6:31 AM	98.3	AAL332	CLT	A321
2/11/21 9:31 AM	98.3	ASA829	OGG	B738
2/11/21 8:44 AM	98.2	AAL2883	DFW	A321
2/13/21 8:19 AM	98.2	UAL2472	IAH	B739
2/13/21 7:59 AM	98.0	SWA1375	HNL	B738
2/11/21 9:26 AM	97.9	ASA760	MCO	B739
2/12/21 6:34 AM	97.9	AAL332	CLT	A321
2/11/21 9:34 AM	97.8	ASA895	HNL	B738
2/11/21 8:09 AM	97.7	AAL1909	CLT	A321
2/13/21 8:44 AM	97.7	AAL2883	DFW	A321
2/12/21 7:14 AM	97.6	UAL1075	DEN	B739
2/13/21 6:53 AM	97.5	AAL2535	DFW	A321
2/12/21 9:17 PM	97.3	UPS921	SDF	B763
2/12/21 8:32 AM	97.3	UAL2472	IAH	B739
2/12/21 8:06 PM	97.2	FDX1222	MEM	B763
2/12/21 10:29 PM	97.2	DAL831	ATL	A321
2/13/21 8:01 AM	97.2	UAL2480	SFO	B739
2/13/21 6:30 AM	97.1	DAL1312	SLC	B738
2/12/21 6:59 PM	97.0	ABX105	PHX	B763
2/11/21 8:16 AM	97.0	SWA1375	HNL	B738
2/12/21 2:04 PM	96.7	UAL408	DEN	B739
2/13/21 7:29 AM	96.7	AAL417	PHX	A321
2/12/21 8:57 AM	96.7	AAL2883	DFW	A321
2/12/21 9:35 AM	96.6	UAL2364	DEN	B738

Table 7

Average Daily Operations by Runway, Operation Type, Time of Day and Aircraft Type

Aircraft Type	Runway 27						Runway 9						Total
	Arrivals			Departures			Arrivals			Departures			
	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	
	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	
A20N	2	1	0	2	0	1	0	0	0	0	0	0	**6**
A21N	0	1	0	1	0	0	0	0	0	0	0	0	**2**
A319	3	1	1	3	0	0	0	0	0	0	0	0	**8**
A320	3	1	1	3	1	0	0	0	0	0	0	0	**9**
A321	14	4	1	14	1	4	0	0	0	0	0	0	**38**
A332	0	0	0	0	0	0	0	0	0	0	0	0	**0**
A343	0	0	0	0	0	0	0	0	0	0	0	0	**0**
B39M	1	0	0	1	0	0	0	0	0	0	0	0	**2**
B737	11	4	1	14	1	1	0	0	0	0	0	0	**32**
B738	24	6	3	29	2	2	1	0	0	1	0	0	**68**
B739	10	4	1	12	1	1	0	0	0	0	0	0	**29**
B752	1	0	1	1	1	0	0	0	0	0	0	0	**4**
B753	0	0	0	0	0	0	0	0	0	0	0	0	**0**
B763	3	0	1	2	2	1	0	0	0	0	0	0	**9**
B788	0	0	0	0	0	0	0	0	0	0	0	0	**0**
BE99	1	0	0	1	0	0	0	0	0	0	0	0	**2**
C208	2	0	0	2	0	0	0	0	0	0	0	0	**4**
CRJ2	0	0	0	0	0	0	0	0	0	0	0	0	**0**
CRJ7	0	0	0	0	0	0	0	0	0	0	0	0	**0**
CRJ9	0	0	0	0	0	0	0	0	0	0	0	0	**0**
E75L	15	2	2	14	4	1	1	0	0	1	0	0	**40**
P31	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Total	**90**	**24**	**12**	**99**	**13**	**11**	**2**	**0**	**0**	**2**	**0**	**0**	**253**

Aircraft Noise Monitoring System (ANOMS)

The following tables capture the Remote Monitoring Terminal (RMT) data associated with this report. Table 8 provides the RMT thresholds, Tables 9 through 11 capture the Daily and Monthly CNEL levels for each month in the Quarter and Table 12 captures the Air Carrier Operations by Aircraft Type.

There are variances in Table 12 between the ANOMS data and the FAA ATADS data reported in the summary and Quarterly Airport Operation due to the way aircraft operating at the airport are categorized between Air Carrier and Air Taxi Operations. The prop/turboprop operations are typically captured in the FAA's Air Taxi category due to their capacity and/or weight classification. The Air Taxi data captured by the FAA ATADS system also includes fractional ownership operations (Business Jets) and small Regional Jets operated by the Air Carrier's Regional Airline partners. If a Regional Jet meets the payload weight limitation of 18,000 pounds or less, then the seating configuration (60 seat boundary) can alter the category that the operation falls into.

The FAA operator categories are defined as follows:

- **Air Carrier (AC):** Aircraft with seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds, carrying passengers or cargo for hire or compensation. This includes US and foreign-flagged carriers.
- **Air Taxi (AT):** Aircraft designed to have a maximum seating capacity of 60 seats or less or a maximum payload capacity of 18,000 pounds or less, carrying passengers or cargo for hire or compensation.
- **General Aviation (GA):** Takeoffs and landings of all civil aircraft, except those classified as air carriers or air taxis.
- **Military:** All classes of military takeoffs and landings.

Table 8

Remote Monitoring Terminal (RMTs) Thresholds

RMT #	SENEL Day Threshold (dB)	Duration (sec)	SENEL Evening Threshold (dB)	Duration (sec)	SENEL Night Threshold (dB)	Duration (sec)
1	73*	9	73	9	72*	10
2	63	10	60	12	58	14
3	74*	9	73	10	72*	10
4	64*	10	63	12	60*	12
6	68*	8	67	9	65*	10
7	65	12	63	12	62	15
9	68*	8	67	9	65*	10
10	65*	8	62	12	60*	13
11	65*	12	63	13	60*	15
12	64*	10	62	12	60*	14
13	65*	8	62	12	60*	13
14	65*	10	62	12	60*	13
16	67*	8	66	9	65*	10
17	64	9	62	12	58	15
18	65	8	65	8	62	12
19	64*	8	64	8	63*	8
20	62	11	62	11	60	13
21	60	10	58	12	55	18
22	65	8	63	10	60	12
23	65*	8	63	10	60*	12
24	65*	8	65	8	63*	10
25	65*	10	62	10	60*	12
26	65*	10	64	12	62*	14

Day: **From 7:00 a.m. to 6:59 p.m.** (* = change occurs at 0500L)
Evening: **From 7:00 p.m. to 9:59 p.m.**
Night: **From 10:00 p.m. to 6:59 a.m.** (* = change occurs at 0500L)

Note 1: RMTs #1 and #3 high threshold levels are due to high freeway and/or construction noise.

Note 2: Noise monitors comply with all applicable settings as specified in the California Noise Standards (Title 21). Noise events must meet both threshold criteria to be considered for further review

Table 9

Daily/Monthly CNEL Levels – January 2021

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	63.1	60.3	57.0	59.0	65.0	68.0	61.0	58.0	64.9	55.2	60.1	59.5	58.1	58.5	55.2	59.2	55.4	52.7	58.5	57.2	57.7	56.7	56.9
2	66.6	62.7	60.5	61.0	66.8	70.4	64.4	59.7	66.5	57.4	61.8	60.5	61.0	60.9	54.1	60.9	57.1	54.5	60.3	58.6	59.7	58.5	59.6
3	67.4	63.4	60.7	61.8	66.0	71.2	60.9	60.7	67.8	58.3	62.9	62.2	61.4	61.9	54.4	56.1	58.4	55.9	61.5	60.7	60.7	59.6	61.2
4	66.7	62.8	60.5	61.2	66.1	70.4	59.7	61.5	67.1	58.7	62.5	61.8	60.9	61.2	51.0	55.0	58.3	56.2	61.0	60.7	60.4	60.1	60.4
5	67.2	62.4	62.5	64.3	64.5	69.2	59.4	58.1	66.1	59.4	59.6	60.8	59.9	60.9	56.9	54.5	55.0	52.1	57.8	55.4	56.9	57.3	59.2
6	64.1	60.1	59.1	58.7	65.2	70.4	63.8	59.4	67.6	57.2	61.1	62.8	58.8	58.3	59.5	60.7	56.8	55.8	59.6	57.5	58.5	58.7	57.3
7	65.3	61.3	58.2	59.9	64.8	69.0	61.9	58.6	65.5	58.4	59.4	60.5	59.9	59.6	56.5	60.4	55.7	53.4	57.9	56.0	57.1	56.9	58.4
8	64.5	60.7	59.2	59.4	64.6	69.4	62.8	57.9	66.3	56.7	59.2	61.3	58.9	59.1	58.5	61.2	55.1	53.2	57.6	55.3	56.5	57.4	57.4
9	63.3	59.8	58.2	58.4	63.5	67.4	60.3	57.0	63.8	55.3	59.1	58.6	58.4	58.0	54.3	56.9	54.9	52.9	57.4	56.0	56.9	56.2	56.8
10	63.0	59.5	58.3	58.0	63.0	67.1	57.4	56.1	63.5	53.1	58.1	58.6	57.3	57.9	51.9	54.4	53.3	51.3	56.8	54.8	55.5	55.0	56.1
11	63.3	58.6	59.3	58.7	63.7	66.6	63.6	57.7	62.9	54.6	58.6	58.9	56.8	57.3	56.5	60.0	54.7	52.6	58.4	56.2	56.4	57.4	56.0
12	63.2	59.3	59.4	58.4	64.3	66.9	57.7	57.1	62.9	55.3	58.1	57.8	57.7	57.8	55.8	52.7	53.6	52.5	56.5	56.2	56.2	55.1	60.9
13	64.7	60.0	59.0	58.9	64.4	67.4	61.6	57.6	64.0	56.1	59.1	59.3	58.1	58.3	60.1	61.4	55.4	53.8	58.2	56.2	56.9	57.2	60.0
14	64.6	60.1	62.4	59.3	65.5	68.5	61.4	57.5	64.5	55.8	59.2	59.6	58.5	58.5	57.6	59.4	56.2	53.6	57.9	56.2	56.7	57.8	57.3
15	66.1	60.1	62.6	59.9	64.7	68.3	61.2	58.8	63.8	52.6	58.1	58.6	59.2	58.7	57.7	59.3	54.1	51.9	56.6	53.6	56.5	57.4	57.1
16	61.7	57.9	55.2	57.2	62.9	66.5	59.8	55.3	62.1	53.5	56.3	55.8	56.4	56.2	55.5	58.1	51.3	48.8	54.6	52.5	54.1	52.3	54.0
17	61.7	58.0	56.2	56.8	63.9	67.8	59.1	56.9	64.0	53.5	58.5	58.9	56.4	56.5	54.0	55.9	54.0	52.0	57.1	57.1	56.3	55.9	54.2
18	63.8	60.4	54.8	59.8	64.3	68.2	59.2	58.0	65.0	55.7	59.7	59.4	58.5	58.8	48.3	57.7	55.2	52.6	61.1	56.3	57.6	56.3	58.1
19	63.8	59.1	60.9	62.2	64.2	69.0	58.6	58.2	67.0	54.9	58.9	62.6	57.7	57.7	57.5	55.0	55.6	51.7	57.1	53.5	55.3	55.7	57.9
20	63.7	58.9	65.4	66.1	60.4	69.9	60.3	52.7	68.6	53.6	55.5	64.0	59.5	59.5	62.5	56.3	51.7	48.8	54.4	44.7	48.0	52.6	59.3
21	65.9	62.1	60.1	60.8	64.8	68.6	58.9	59.4	65.3	57.1	60.8	60.5	60.4	60.3	52.0	56.9	56.8	55.1	59.2	56.2	58.3	58.2	59.4
22	66.4	63.0	58.9	60.9	65.7	67.7	59.9	59.1	64.9	56.7	60.5	60.0	60.8	60.5	50.1	56.5	56.2	54.8	59.0	56.4	58.2	57.8	59.5
23	64.7	61.4	57.7	59.7	63.8	66.9	58.5	57.9	63.8	58.6	59.8	58.7	59.5	59.6	48.9	56.2	55.7	53.4	58.2	55.8	57.5	56.5	58.2
24	64.8	61.8	57.3	59.7	64.8	67.9	64.7	59.0	65.4	56.7	60.9	60.7	59.7	60.3	48.0	63.1	57.1	55.3	59.5	57.5	58.5	58.5	58.6
25	66.6	63.4	60.2	60.5	67.0	64.8	65.7	62.2	63.0	59.4	61.3	59.6	61.2	61.3	61.4	60.2	65.5	58.1	61.5	61.3	60.0	62.0	61.1
26	66.5	62.2	60.7	60.5	64.5	65.9	59.3	58.7	63.6	56.9	59.1	58.2	60.6	60.6	54.8	57.0	56.4	56.7	57.8	57.7	58.8	57.2	60.0
27	65.6	62.0	60.8	60.1	64.3	67.7	58.5	58.5	65.1	57.0	60.4	60.3	60.4	59.9	53.9	53.7	56.3	54.2	59.2	57.3	58.0	58.8	59.1
28	65.8	61.7	59.2	60.2	65.5	69.1	62.7	59.2	65.8	56.8	60.8	60.7	61.3	59.7	57.1	61.2	57.0	54.4	59.4	57.7	58.6	57.8	59.0
29	65.6	61.9	61.0	59.9	66.4	70.6	64.6	59.9	67.7	57.6	61.0	62.2	60.4	59.9	64.7	64.3	57.8	55.2	59.5	57.6	58.6	58.0	59.0
30	64.5	60.5	60.2	58.8	64.2	67.7	57.4	57.6	64.4	58.1	59.8	59.9	58.8	58.7	45.3	52.8	55.6	53.5	58.3	56.6	57.6	56.9	57.6
31	63.5	60.1	57.2	58.6	63.6	67.8	58.8	57.6	64.8	55.6	60.1	60.1	58.2	58.5	50.9	55.7	55.9	54.6	58.5	55.6	57.8	57.1	57.8
Month	**65.0**	**61.1**	**60.0**	**60.4**	**64.8**	**68.5**	**61.4**	**58.6**	**65.4**	**56.7**	**60.0**	**60.4**	**59.4**	**59.4**	**57.1**	**58.9**	**56.9**	**54.0**	**58.7**	**57.0**	**57.7**	**57.6**	**58.6**

Table 10

Daily/Monthly CNEL Levels – February 2021

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	63.7	59.7	57.1	59.0	64.2	67.9	61.2	58.7	65.1	55.9	60.2	60.4	57.5	58.0	52.3	58.3	56.0	54.6	58.7	55.1	57.6	58.4	58.7
2	65.6	61.7	59.4	60.2	63.6	66.7	58.1	57.4	64.2	61.9	59.4	59.1	59.3	60.3	45.7	52.3	56.3	53.4	58.1	55.6	57.3	56.8	59.6
3	63.6	60.1	59.4	60.5	64.1	69.5	59.6	57.0	66.7	53.9	59.3	61.4	58.2	58.5	53.4	54.2	55.2	53.3	57.8	55.5	56.7	56.7	58.0
4	66.0	62.2	60.3	60.4	65.4	68.7	61.7	59.1	65.5	57.3	61.3	61.0	60.8	60.5	49.9	58.4	56.7	55.1	59.8	57.0	59.0	58.4	60.9
5	66.7	62.2	62.8	61.2	65.4	67.9	61.8	58.2	64.7	56.3	60.1	60.1	61.0	60.6	58.0	58.0	56.1	54.0	58.6	55.3	57.7	57.6	61.0
6	61.5	57.2	54.8	56.0	63.8	69.3	59.6	57.2	66.1	54.6	57.1	61.3	55.8	55.5	54.9	56.4	54.5	52.1	57.8	54.7	56.8	55.8	54.3
7	63.0	59.4	55.6	58.1	63.9	67.7	60.4	57.6	64.8	54.9	59.3	59.7	57.3	57.7	51.8	56.6	56.4	53.5	57.6	55.7	56.9	57.2	55.8
8	64.9	61.9	56.9	60.0	64.8	68.3	60.4	59.7	65.0	56.2	60.8	60.5	60.1	60.0	46.2	57.9	55.8	53.9	59.1	56.3	58.2	57.3	59.4
9	65.2	61.4	65.1	59.9	64.9	67.7	60.6	58.9	64.9	56.7	60.5	60.4	59.4	59.6	43.5	54.5	56.5	54.4	59.1	56.9	58.3	57.8	58.7
10	66.4	62.2	60.6	61.0	64.2	67.8	60.0	58.3	65.1	56.3	60.6	60.4	60.3	60.7	55.3	52.8	56.8	54.9	59.2	56.3	58.4	58.4	60.5
11	66.8	62.8	61.3	61.6	65.8	69.6	61.9	59.9	66.5	57.3	61.6	61.0	60.8	61.0	56.9	59.9	57.2	54.7	59.9	57.3	59.5	58.3	60.1
12	67.2	62.8	63.2	62.2	65.5	70.1	62.4	59.4	66.1	58.1	61.9	61.2	61.5	61.2	56.9	59.8	57.8	55.6	60.6	58.8	60.0	59.3	61.4
13	65.2	61.5	61.0	62.6	64.7	67.6	60.2	58.3	64.1	54.6	59.2	59.3	60.1	60.4	56.5	59.0	54.3	52.4	57.7	56.2	56.9	56.3	58.1
14	63.5	60.1	59.5	58.3	63.7	68.4	58.6	58.3	65.3	57.7	60.9	59.9	58.3	58.5	50.2	55.7	56.4	54.0	58.9	57.0	58.1	58.1	57.2
15	66.3	62.6	58.9	60.9	64.8	70.0	61.2	59.7	66.7	56.8	61.9	61.0	61.0	60.8	48.4	59.3	57.1	55.3	62.4	58.7	59.6	58.3	59.5
16	65.6	61.8	59.9	60.5	63.3	66.8	61.5	57.6	63.6	55.9	59.7	59.0	60.5	60.5	51.0	58.9	55.2	53.1	58.5	57.0	57.9	56.3	59.2
17	65.3	61.4	59.6	61.0	64.2	68.0	59.4	58.0	65.0	56.3	60.6	59.7	60.1	59.7	53.9	58.5	56.1	53.7	59.1	57.1	58.5	57.3	59.1
18	65.7	61.0	61.6	59.7	64.3	68.1	56.6	57.7	64.4	55.0	58.8	58.7	60.2	59.5	49.1	49.8	54.6	52.1	57.4	54.7	56.8	55.6	58.8
19	65.9	61.4	62.9	60.3	64.3	67.9	60.3	57.5	63.9	55.3	59.0	58.5	60.3	60.0	51.9	54.3	54.8	52.2	57.5	55.1	57.2	55.9	58.3
20	65.0	61.1	62.9	59.4	63.9	67.1	60.2	58.1	64.2	55.8	59.4	59.2	60.1	59.5	53.8	57.3	55.2	52.5	57.9	56.1	57.0	56.1	58.0
21	64.0	60.5	60.0	59.4	63.9	68.4	57.0	57.2	64.6	54.7	59.4	58.8	58.7	58.7	52.0	54.1	54.9	52.9	57.9	55.8	57.1	55.8	59.1
22	65.2	60.3	58.6	59.4	63.8	67.1	60.6	58.5	62.9	54.1	58.0	58.0	58.4	58.8	58.7	58.4	55.2	51.4	58.1	54.3	55.8	54.9	57.0
23	64.9	60.4	60.2	59.6	63.7	67.1	60.1	57.1	63.8	57.7	58.3	58.5	59.6	59.0	51.8	57.5	53.7	51.9	56.7	54.1	56.0	55.4	58.1
24	64.5	60.9	59.5	59.5	63.7	69.4	62.4	62.9	65.9	55.6	59.8	61.1	59.8	59.3	53.1	60.2	54.8	52.4	57.9	55.2	57.6	56.1	62.7
25	66.6	61.7	63.2	61.6	64.6	69.5	59.0	58.6	65.9	56.2	60.5	61.1	60.2	60.2	51.8	55.3	56.7	54.0	59.2	56.4	58.0	57.6	61.8
26	66.3	61.1	62.9	60.3	65.5	69.5	61.7	59.2	65.8	56.8	59.7	60.8	60.5	59.5	57.5	57.4	55.6	52.8	58.2	54.9	57.4	56.3	63.1
27	64.5	60.9	61.3	59.4	62.9	67.1	59.5	57.6	64.9	56.1	59.1	58.5	59.6	59.3	43.8	58.5	55.0	53.2	57.7	55.9	57.1	55.8	58.2
28	63.5	59.7	60.6	58.9	64.9	69.4	59.6	58.1	65.9	56.8	60.6	60.8	58.7	57.9	52.5	56.3	56.0	53.5	59.1	56.9	58.4	57.5	56.2
Month	**65.3**	**61.2**	**60.9**	**60.2**	**64.4**	**68.4**	**60.4**	**58.6**	**65.2**	**56.6**	**60.0**	**60.1**	**59.7**	**59.6**	**53.7**	**57.4**	**55.9**	**53.6**	**58.8**	**56.2**	**57.8**	**57.1**	**59.5**

Table 11

Daily/Monthly CNEL Levels – March 2021

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	62.3	58.8	60.6	57.8	63.4	67.3	56.9	56.8	62.6	53.0	57.2	57.6	56.8	57.1	45.7	52.1	52.0	50.2	55.3	51.9	54.7	53.9	55.5
2	65.7	60.5	61.9	59.7	63.7	66.4	60.2	61.7	62.6	54.5	57.6	57.2	59.3	58.8	56.2	56.4	52.9	50.3	55.8	52.3	55.6	54.0	56.6
3	65.9	61.9	63.0	65.7	65.3	68.9	64.0	57.4	71.1	56.1	59.8	62.4	61.5	60.8	62.2	61.6	54.5	52.2	58.1	54.4	57.3	55.9	58.3
4	67.7	63.2	64.0	61.7	65.7	69.9	62.1	60.9	68.0	58.0	62.0	61.7	61.5	61.5	49.2	60.3	57.8	55.5	60.8	58.7	59.7	59.2	60.4
5	67.5	63.4	64.5	62.2	65.9	69.6	62.9	59.9	67.5	57.9	61.5	60.8	62.0	61.5	57.5	59.2	57.5	54.3	60.0	57.7	59.7	58.0	60.5
6	65.9	62.3	60.9	61.0	63.8	67.5	58.0	57.8	64.5	55.5	60.3	59.9	59.8	60.5	46.7	50.5	56.1	53.9	58.6	56.2	57.5	57.8	59.0
7	65.4	61.9	56.9	60.3	66.5	70.3	63.2	60.6	66.9	58.5	62.6	62.1	60.6	60.0	50.4	61.4	57.8	55.7	61.0	59.6	60.6	59.2	58.8
8	66.3	62.6	60.2	61.1	65.8	68.9	61.6	61.0	69.0	58.4	62.2	61.5	60.9	61.2	53.0	58.7	58.0	56.0	60.9	58.3	60.0	59.5	59.5
9	66.6	62.7	59.8	61.5	64.6	67.9	63.0	59.3	64.9	60.2	60.6	60.5	60.8	60.9	54.9	60.1	56.5	55.4	59.2	57.3	58.6	58.1	59.8
10	67.9	63.8	59.8	62.1	65.3	68.8	64.0	59.7	65.7	57.4	61.5	61.1	62.0	61.6	54.1	62.8	57.6	56.1	60.1	57.9	59.5	59.2	60.6
11	69.8	64.6	63.4	63.3	66.9	70.3	63.7	61.4	67.3	59.0	62.9	62.4	62.9	62.7	56.5	62.3	58.5	57.1	61.5	58.9	60.8	60.2	61.5
12	68.8	64.9	66.0	63.6	66.3	70.2	62.4	61.0	66.9	59.5	62.7	61.6	63.2	63.1	51.6	58.8	58.4	56.1	61.1	59.0	60.7	59.6	61.8
13	66.6	62.9	61.9	61.0	65.2	68.8	61.1	64.1	65.1	56.9	60.9	60.8	61.7	61.0	51.4	61.3	56.8	55.1	59.7	57.1	58.7	58.7	59.7
14	66.7	63.6	61.8	62.2	66.5	70.6	64.3	61.0	67.0	59.0	63.2	61.8	61.8	61.7	48.8	63.4	57.9	55.5	61.3	59.8	61.2	59.2	60.3
15	68.0	64.6	62.5	63.5	66.6	68.9	62.5	60.9	65.7	58.7	61.7	61.7	62.6	62.8	58.0	59.6	58.4	56.2	60.5	59.7	59.9	59.6	61.6
16	67.8	63.7	63.4	62.2	65.6	68.8	62.9	60.4	65.8	58.4	61.6	61.4	62.5	62.1	56.6	59.9	57.6	56.2	60.2	58.9	59.5	59.4	60.9
17	67.9	63.9	64.1	62.5	65.4	70.2	63.1	64.6	67.3	58.5	62.4	62.1	62.3	62.2	57.9	58.9	58.4	55.8	61.0	58.1	60.2	59.5	61.3
18	68.3	64.5	65.0	63.0	66.6	71.3	61.8	61.9	68.0	58.9	63.2	62.8	62.2	62.7	53.0	54.1	59.0	56.7	61.6	59.1	60.8	60.2	61.7
19	68.1	64.0	65.6	62.6	66.5	71.6	64.6	64.2	67.9	58.2	62.6	62.8	62.1	62.3	55.8	61.6	58.2	55.8	61.2	58.5	60.5	59.4	61.2
20	66.4	62.4	63.8	60.9	65.5	70.5	62.6	60.0	67.2	56.8	62.4	62.3	60.9	60.7	50.2	58.1	57.6	55.4	60.5	58.0	59.5	58.9	59.6
21	67.1	63.4	63.3	62.0	66.2	71.6	64.4	60.9	68.1	59.3	63.3	62.6	61.9	61.8	51.4	62.9	58.8	56.3	61.5	60.0	61.0	59.9	60.3
22	66.2	62.3	59.4	60.8	66.2	70.9	62.2	61.3	67.6	58.7	63.2	62.7	61.1	60.7	49.2	63.2	58.5	56.4	63.3	59.3	61.0	59.4	59.8
23	67.6	63.6	62.3	62.1	66.5	69.5	62.8	61.0	66.6	59.0	62.2	62.0	61.8	61.8	55.5	59.4	58.0	56.2	60.7	59.3	60.0	59.5	61.8
24	67.4	63.6	62.7	62.2	66.1	70.7	63.2	60.8	67.5	58.5	62.1	62.1	62.1	61.7	56.0	62.4	58.8	56.4	60.7	58.3	59.9	59.8	61.0
25	69.1	65.4	62.3	63.5	67.4	71.2	65.3	62.5	68.1	60.1	63.8	62.9	63.7	63.5	56.6	63.6	59.2	57.1	62.1	59.8	62.1	60.4	62.3
26	68.4	64.5	66.2	63.0	66.2	71.5	63.2	61.8	68.2	60.4	63.4	62.6	62.6	63.0	51.0	57.9	59.4	57.1	62.1	59.8	61.5	60.6	61.4
27	67.0	62.4	64.5	61.4	65.6	70.5	61.3	59.9	67.2	57.2	62.1	62.5	61.1	61.4	51.1	57.4	58.4	56.0	60.6	57.7	59.6	59.4	59.4
28	66.4	62.3	63.3	61.0	65.5	71.1	62.6	59.5	67.0	57.1	61.5	61.0	60.2	61.4	56.4	58.4	57.3	54.2	60.1	57.9	59.5	58.0	58.7
29	67.5	63.1	61.2	62.5	66.8	71.2	66.3	61.1	67.3	59.0	62.3	61.8	61.3	61.6	58.8	63.9	59.1	55.4	60.5	60.1	60.5	58.4	60.1
30	67.3	63.6	61.7	62.4	66.0	71.0	61.6	61.1	67.7	58.3	62.5	61.9	61.9	61.8	50.3	56.9	58.1	55.5	60.9	57.9	60.4	58.8	60.7
31	65.0	59.9	61.7	59.4	65.9	70.8	62.8	59.3	66.5	56.2	59.7	60.4	58.7	57.8	60.4	60.9	55.8	53.7	58.0	55.1	57.4	56.6	56.9
Month	**67.3**	**63.2**	**63.0**	**62.1**	**65.9**	**70.1**	**62.9**	**61.1**	**67.2**	**58.2**	**62.0**	**61.7**	**61.6**	**61.5**	**55.5**	**60.5**	**57.8**	**55.5**	**60.6**	**58.3**	**59.9**	**59.0**	**60.3**

Table 12

Air Carrier Operations by Aircraft Type captured by the Noise Monitoring System.

Aircraft Type	Air Canada Jazz	Air Canada Rouge	Alaska Airlines	Allegiant Air	American	British Airways	Compass Airlines	Delta Air Lines	Edelweiss	Frontier Airlines	Hawaiian	Horizon Air	Japan Airlines	jetBlue	Lufthansa	SkyWest Airlines	Southwest Airlines	Spirit Airlines	Sun Country Airlines	United Airlines	WestJet	Airborne Express	FedEx Express	UPS Airlines	Total Operations
A20N	0	0	0	0	0	0	0	0	0	448	0	0	0	0	0	0	0	34	0	0	0	0	0	0	482
A21N	0	0	4	0	31	0	0	0	0	0	229	0	0	0	0	0	0	0	0	0	0	0	0	0	264
A306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11
A319	0	0	0	22	0	0	0	192	0	172	0	0	0	0	0	0	0	0	0	295	0	0	0	0	681
A320	0	0	257	4	101	0	0	2	0	54	0	0	0	70	0	0	0	164	0	156	0	0	0	0	808
A321	0	0	0	0	1,976	0	0	1,168	0	10	0	0	0	251	0	0	0	0	0	0	0	0	0	0	3,405
A332	0	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	64
B38M	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	56
B39M	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	0	0	0	0	161
B737	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2,789	0	0	182	0	0	0	0	2,977
B738	0	0	790	0	315	0	0	751	0	0	0	0	0	0	0	0	3,480	0	60	756	0	0	0	0	6,152
B739	0	0	1,469	0	0	0	0	307	0	0	0	0	0	0	0	0	0	0	0	935	0	0	0	0	2,711
B752	0	0	0	0	0	0	0	142	0	0	0	0	0	0	0	0	0	0	0	12	0	0	348	1	503
B753	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	486	0	530
B762	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
B763	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	122	0	197	331
B764	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
B788	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
CRJ2	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	8
E170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8
E175	0	0	825	0	0	0	0	0	0	0	0	0	0	0	0	2,772	0	0	0	0	0	0	0	0	3,597
Jet	**0**	**0**	**3,405**	**26**	**2,483**	**0**	**0**	**2,670**	**0**	**684**	**293**	**0**	**22**	**321**	**0**	**2,774**	**6,271**	**198**	**60**	**2,451**	**0**	**126**	**845**	**198**	**22,827**
BE99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149	149
C208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	431	0	431
Prop	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**431**	**149**	**580**
All Ops	**0**	**0**	**3,405**	**26**	**2,483**	**0**	**0**	**2,670**	**0**	**684**	**293**	**0**	**22**	**321**	**0**	**2,774**	**6,271**	**198**	**60**	**2,451**	**0**	**126**	**1,276**	**347**	**23,407**