2024 1Q DEN Noise Report





Results

January 1, 2024 — March 31, 2024

The number of potential Class II NEPS violations registered between January 1 through March 31, 2024 was three (3). There was one (1) potential Class II NEPS violation during the same period the previous year. Please see pages 3 and 5 for Denver International Airport (DEN) NEPS information. There are two instances where the actual 1st Quarter 2024 65 LDN contour extends beyond the IGA 65 LDN contour, but they are completely contained within the DEN Boundary and the City and County of Denver Boundary. Please see page 4 for the DEN contour map.

The number of households registering at least one complaint increased from 7 households for 2023 as compared to 2024 with 11 households. Three households registered a combined 95 percent of the total complaints for 2024. The number of complaints decreased by approximately 25 percent for 2024 as compared to the same period in 2023 (458 in 2024 vs. 611 in 2023). Please see page 6 for complete complaint and runway utilization data, and page 7 for a household location map.

To access the DEN 2024 1st Quarter Noise Report, as well as other reports and information please go to: <u>https://www.flydenver.com/business-and-community/</u>noise-and-airspace/.

FAA Noise Complaints and Inquiries

The FAA's mission is to ensure the safe and efficient use of our nation's airspace. You can <u>review FAA's noise complaint and inquiry policy</u> to learn how FAA processes noise complaints and inquiries.

FAA Noise Portal

To send a complaint directly to the FAA about noise from aircraft operations at your community airport. Please go to the following webpage: <u>FAA Noise Portal</u>.

DEN Noise Complaint Submissions

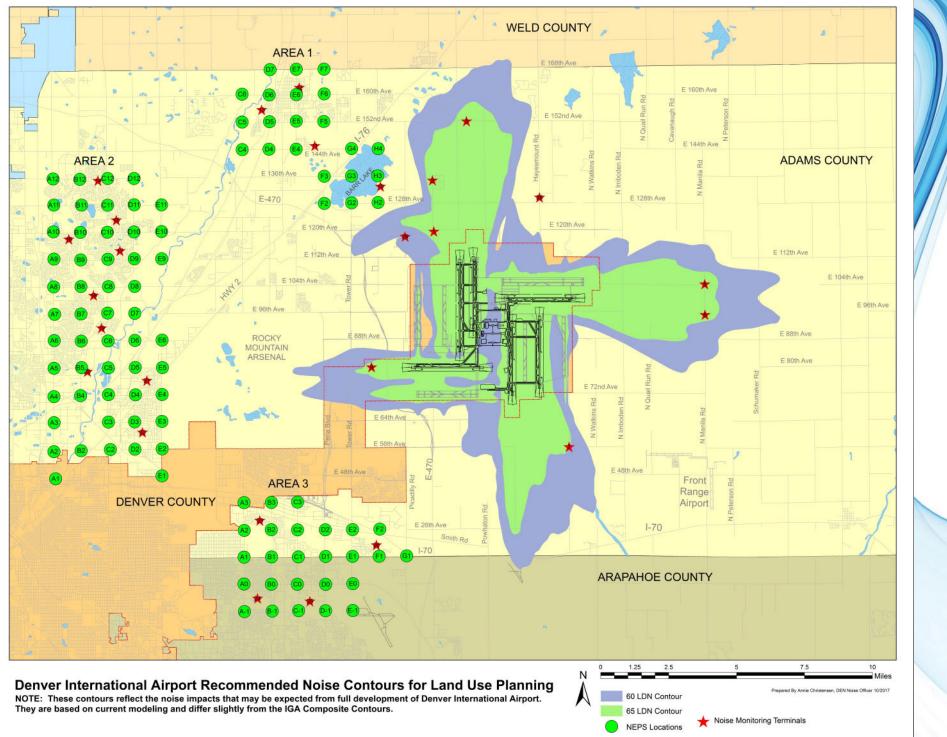
I o submit a noise complaint to the DEN Noise Office please go to the following webpage and submit complaint vis our online flight tracking system PublicVue: <u>DEN Noise Complaints</u>

NOMS for Airports

The DEN Noise and Operations Monitoring System (ARiVA SYMPHONY EnvironmentalVue NOMS) is a state-of-theart computer system designed to enable the City and County of Denver to monitor aircraft noise in the vicinity of the airport.

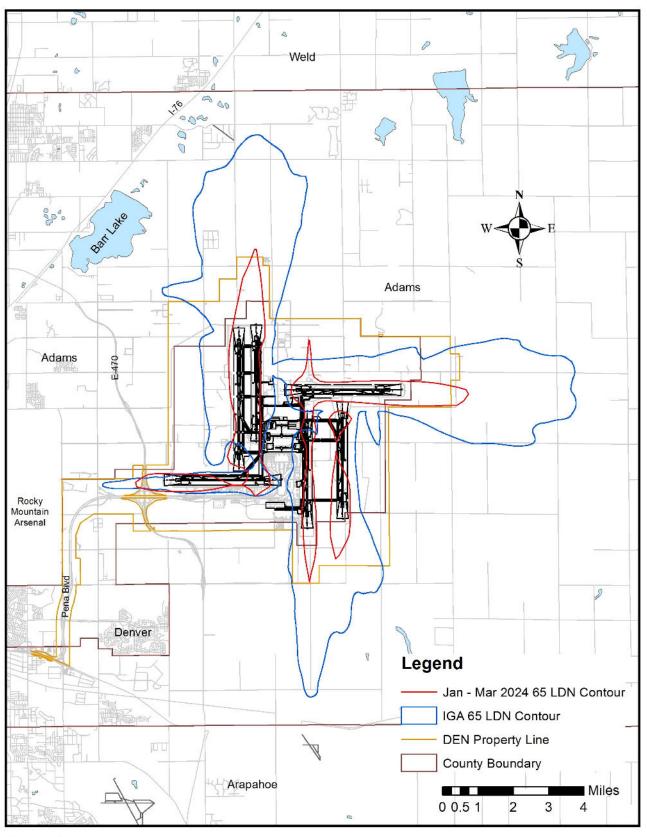
The DEN NOMS for Airports monitors noise levels at 26 permanent and one portable noise monitoring terminals. These terminals are located throughout the Denver metro area (see map on page 3 for RMT locations).

The system also records the movement of all aircraft in the vicinity of DEN by utilizing FAA air traffic control radar data. This makes it possible to match actual flights with noise events.



Noise Exposure Performance Standards (NEPS) Grid Coordinates, Land Use Contour, and Remote Monitoring Terminal (RMT) Locations

January 1, 2024 - March 31, 2024 DEN 65 LDN Contour





DEN January 1 - March 31, 2024 65 LDN Contour

January 1, 2024 - March 31, 2024 DEN / Adams County IGA NEPS Values

		Area 2				Area 1	
		JAN-MAR 2024				JAN-MAR 2024	
Grid	IGA Annual	Calculated	Difference	Grid	IGA Annual	Calculated	Difference
Points	Leq (24)	Leq (24)	Leq	Points	Leq (24)	Leq (24)	Leq
A,1	38.6	35.9	-2.7	C,4	44.2	36.7	-7.5
A,2	37.6	35.3	-2.3	C,5	36.7	36.1	-0.6
A,3	42.3	39.4	-2.9	C,6	36.0	36.0	0.0
A,4	45.3	43.4	-1.9	D,4	41.1	36.0	-5.1
A,5	43.9	43.1	-0.8	D,5	34.2	35.9	1.7
A,6	37.5	39.1	1.6	D,6	36.0	36.8	0.8
A,7	37.7	34.6	-3.1	D,7	41.4	38.7	-2.8
A,8	36.5	32.9	-3.6	E,4	38.3	34.7	-3.6
A,9	36.3	34.2	-2.2	E,5	34.8	35.2	0.4
A,10	37.6	37.6	-0.1	E,6	36.7	33.4	-3.3
A,11	39.2	42.2	3.0	E,7	41.4	34.3	-7.1
A,12	41.2	40.7 35.3	-0.5	F,2	51.7 43.7	40.6 36.1	-11.1
B,2 B,4	39.5 42.5	43.6	-4.2 1.1	F,3	43.7	30.1	-7.6 -5.0
в,4 В,5	42.5	43.6	1.1	F,5 F,6	37.3	32.3	-5.0
в,5 В,6	39.0	39.7	0.7	F,0 F,7	42.1	31.8	-0.7
В,0 В,7	39.0	34.9	-4.1	G,2	51.2	41.5	-9.7
B,8	38.0	33.3	-4.7	G,3	42.1	35.8	-6.3
B,9	38.3	34.4	-3.9	G,4	40.2	32.2	-8.0
B,10	39.0	37.9	-1.1	H,2	50.1	43.2	-6.9
B,11	40.4	42.8	2.4	H,3	46.0	36.4	-9.7
B,12	42.6	41.1	-1.5	H,4	46.1	33.1	-13.0
C,2	41.0	36.0	-5.1	,.			
C,3	43.3	37.8	-5.5			Area 3	
C,4	43.5	43.5	0.0			JAN-MAR 2024	
C,5	43.4	45.4	2.0	Grid	IGA Annual	Calculated	Difference
C,6	43.3	40.3	-3.0	Points	Leq (24)	Leq (24)	Leq
C,7	43.3	35.3	-8.0	A,-1	38.9	32.6	-6.3
C,8	42.6	33.8	-8.8	A,0	39.6	33.4	-6.2
C,9	42.2	34.9	-7.3	A,1	43.2	34.2	-9.0
C,10	41.6	38.3	-3.3	A,2	45.7	35.7	
C,11	42.5			,	_		-10.0
C,12	44.0	43.3	0.8	A,3	45.6	38.4	-10.0 -7.2
	44.3	41.2	-3.1	A,3 B,-1	45.6 37.9	38.4 33.0	-7.2 -4.9
D,2	41.7	41.2 37.1	-3.1 -4.6	A,3 B,-1 B,0	45.6 37.9 39.2	38.4 33.0 33.7	-7.2 -4.9 -5.5
D,3	41.7 46.2	41.2 37.1 37.5	-3.1 -4.6 -8.7	A,3 B,-1 B,0 B,1	45.6 37.9 39.2 42.6	38.4 33.0 33.7 34.7	-7.2 -4.9 -5.5 -8.0
D,3 D,4	41.7 46.2 48.4	41.2 37.1 37.5 42.8	-3.1 -4.6 -8.7 -5.6	A,3 B,-1 B,0 B,1 B,2	45.6 37.9 39.2 42.6 45.8	38.4 33.0 33.7 34.7 35.9	-7.2 -4.9 -5.5 -8.0 -9.9
D,3 D,4 D,5	41.7 46.2 48.4 48.2	41.2 37.1 37.5 42.8 46.3	-3.1 -4.6 -8.7 -5.6 -1.9	A,3 B,-1 B,0 B,1 B,2 B,3	45.6 37.9 39.2 42.6 45.8 45.8	38.4 33.0 33.7 34.7 35.9 37.8	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9
D,3 D,4 D,5 D,6	41.7 46.2 48.4 48.2 46.2	41.2 37.1 37.5 42.8 46.3 40.9	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1	45.6 37.9 39.2 42.6 45.8 45.7 36.7	38.4 33.0 33.7 34.7 35.9 37.8 36.1	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6
D,3 D,4 D,5 D,6 D,7	41.7 46.2 48.4 48.2 46.2 46.2 44.2	41.2 37.1 37.5 42.8 46.3 40.9 35.8	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7
D,3 D,4 D,5 D,6 D,7 D,8	41.7 46.2 48.4 48.2 46.2 44.2 43.7	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 36.4	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1
D,3 D,4 D,5 D,6 D,7 D,8 D,9	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.7 43.1	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 36.4 37.0	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.7 43.1 44.9	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 44.9 44.5	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0 35.0	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 44.9 44.5 45.1	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0 35.0 33.4	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 43.1 44.9 44.5 45.1 42.4	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0 35.0 33.4 33.6	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 44.9 44.5 45.1 42.4 42.2	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 36.4 37.0 38.0 35.0 33.4 33.4 33.6 35.6	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2 E,3	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 43.1 44.9 44.5 45.1 42.4	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1 37.9	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1 -8.8	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2 E,-1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0 31.4	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0 35.0 33.4 33.6	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4 1.0
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2 E,3 E,4	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 43.1 44.9 44.5 45.1 42.4 42.2 46.7	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1 -8.8 -8.8	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2 E,-1 E,0	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0	38.4 33.0 33.7 34.7 35.9 37.8 36.4 36.4 36.4 36.4 37.0 38.0 35.0 33.4 33.6 35.6 32.4 31.6	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4 1.0 -1.5
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2 E,3	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 43.1 44.9 44.5 45.1 42.4 42.2 46.7 51.2	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1 37.9 42.4	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1 -8.8	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2 E,-1 E,0 E,1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0 31.4 33.1	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 36.4 37.0 38.0 35.0 33.4 33.6 35.6 32.4	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4 1.0
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2 E,3 E,4 E,5	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 44.9 44.5 45.1 42.4 42.2 46.7 51.2 51.0	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1 37.9 42.4 47.2	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1 -8.8 -8.8 -8.8 -3.8	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2 E,-1 E,0 E,1 E,2	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0 31.4 33.1 36.2	38.4 33.0 33.7 34.7 35.9 37.8 36.4 36.4 36.4 37.0 38.0 35.0 33.4 33.6 35.6 35.6 32.4 31.6 32.6	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4 1.0 -1.5 -3.6
D,3 D,4 D,5 D,6 D,7 D,8 D,9 D,10 D,11 D,12 E,1 E,2 E,3 E,4 E,5 E,6	41.7 46.2 48.4 48.2 46.2 44.2 43.7 43.1 44.9 44.5 45.1 42.4 42.2 46.7 51.2 51.0 44.6	41.2 37.1 37.5 42.8 46.3 40.9 35.8 34.5 35.8 39.4 44.0 41.8 43.5 39.1 37.9 42.4 47.2 41.7	-3.1 -4.6 -8.7 -5.6 -1.9 -5.3 -8.4 -9.3 -7.3 -5.5 -0.5 -3.3 1.1 -3.1 -8.8 -8.8 -8.8 -3.8 -3.8 -2.9	A,3 B,-1 B,0 B,1 B,2 B,3 C,-1 C,0 C,1 C,2 C,3 D,-1 D,0 D,1 D,2 E,-1 E,0 E,1	45.6 37.9 39.2 42.6 45.8 45.7 36.7 37.1 39.5 44.8 46.5 32.6 33.3 37.3 43.0 31.4 33.1 36.2 40.6	38.4 33.0 33.7 34.7 35.9 37.8 36.1 36.4 36.4 37.0 38.0 35.0 33.4 33.6 35.6 35.6 32.4 31.6 32.6 35.8	-7.2 -4.9 -5.5 -8.0 -9.9 -7.9 -0.6 -0.7 -3.1 -7.8 -8.5 2.4 0.1 -3.7 -7.4 1.0 -1.5 -3.6 -4.8

5

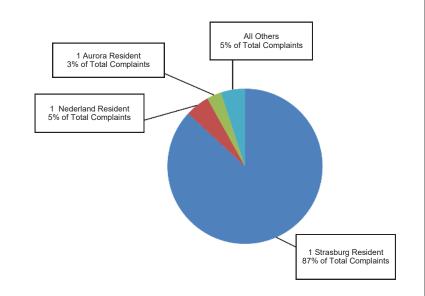


January 1, 2024 - March 31, 2024 Noise Complaint Data and Runway Utilization

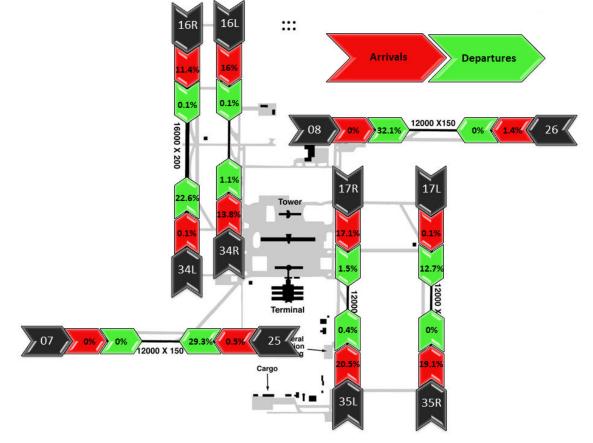
2024 Noise Complaint Calls by Community

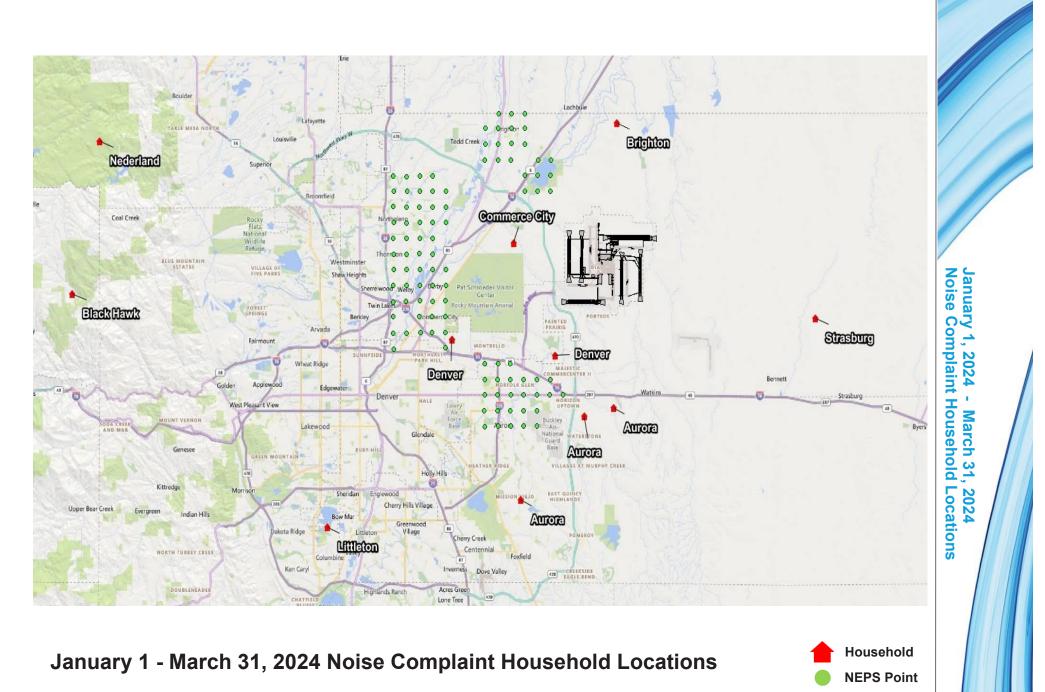
Community	No. of Households 2024	No. of Households 2023	No. of Households 2022
Arvada	0	0	1
Aurora	3	1	1
Black Hawk	1	0	0
Brighton	1	1	0
Castle Rock	0	1	1
Commerce City	1	1	1
Denver	2	1	1
Littleton	1	0	0
Nederland	1	1	0
Parker	0	0	1
Strasburg	1	1	1
Overall Total	11	7	7

2024 Top 3 Complainants vs. All Others



2024 Runway Utilization (% of Total Flight Operations)





DEN NOISE OFFICE — AOB, 6TH FLOOR, NW CORNER — 8500 PEŇA BOULEVARD DENVER, CO — 80249-6340 — 303.342.2000 t — 303.342.2366 f 303.342.2380 noise hotline — 800.417.2988 toll free noise hotline

