

DEN Noise Report

January 1, 2023 — December 31, 2023



Results

January 1, 2023 — December 31, 2023

The number of potential Class II NEPS violations registered between January 1 through December 31, 2023 was three (3). There were zero potential Class II NEPS violations during the same period the previous year. Please see pages 3 and 5 for Denver International Airport (DEN) NEPS information. There are three instances where the actual 2023 Annual 65 LDN contour extends beyond the IGA 65 LDN contour, but it is 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 26 households for 2022 as compared to 2023 with 32 households. Three households registered a combined 90 percent of the total complaints for 2023. The number of complaints increased by approximately 15 percent for 2023 as compared to the same period in 2022 (3169 in 2023 vs. 2694 in 2022). Please see page 6 for complete complaint and runway utilization data, and page 7 for a household location map.

To access the DEN 2023 Annual Noise Report, as well as other reports and information please go to: <https://www.flydenver.com/business-and-community/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 [review FAA's noise complaint and inquiry policy](#) 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: [FAA Noise Portal](#).

DEN Noise Complaint Submissions

To 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: [DEN Noise Complaints](#)

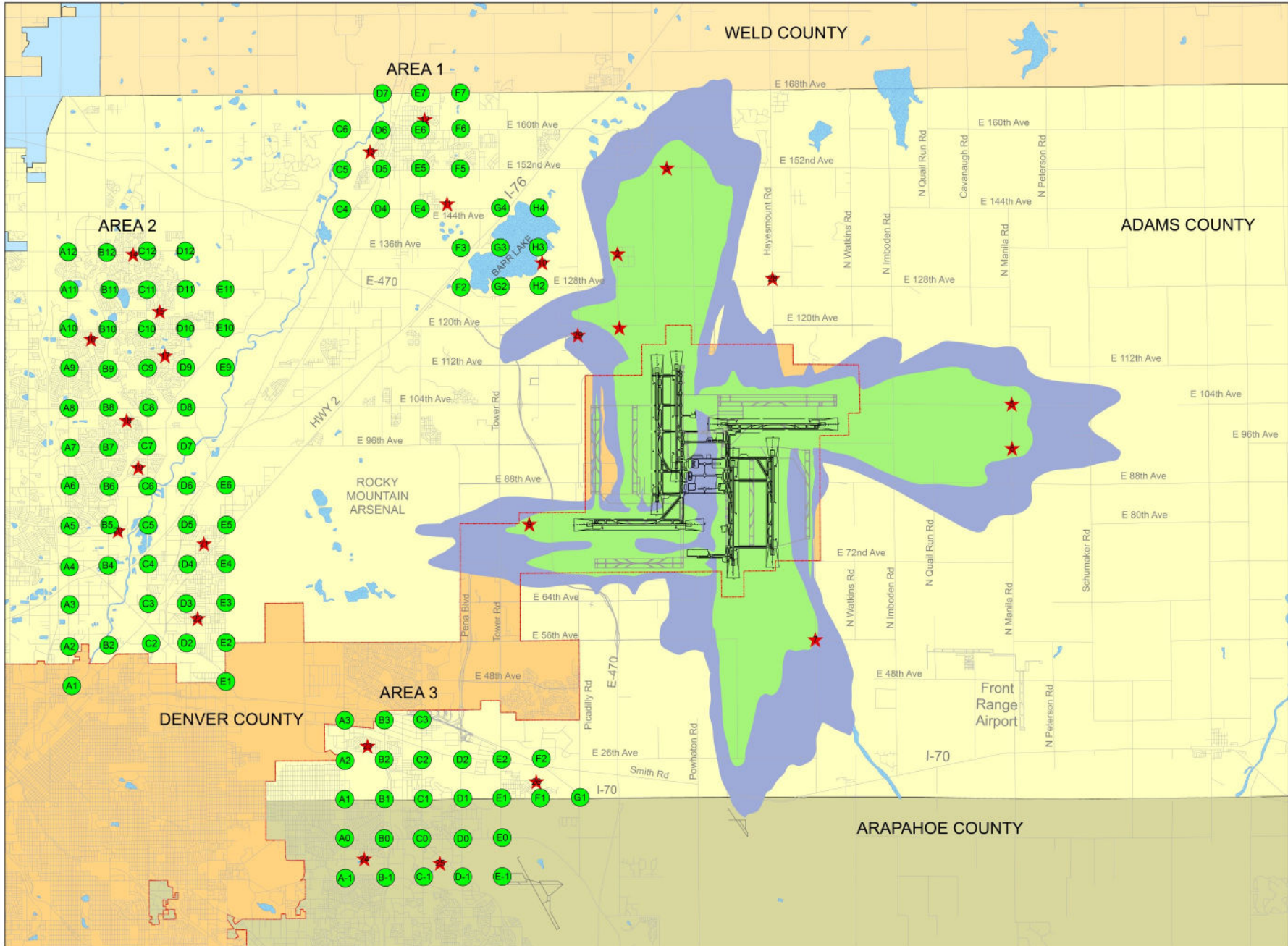
NOMS for Airports

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

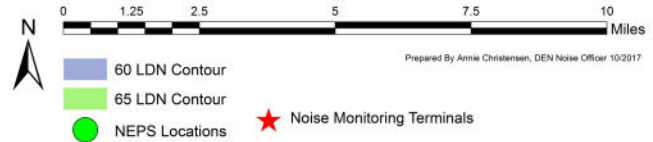
The DEN NOMS for Airports monitors noise levels at 26 permanent and one portable noise monitoring terminals. These terminals are located throughout the Denver metro area (see map on page 3 for RMT locations).

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.

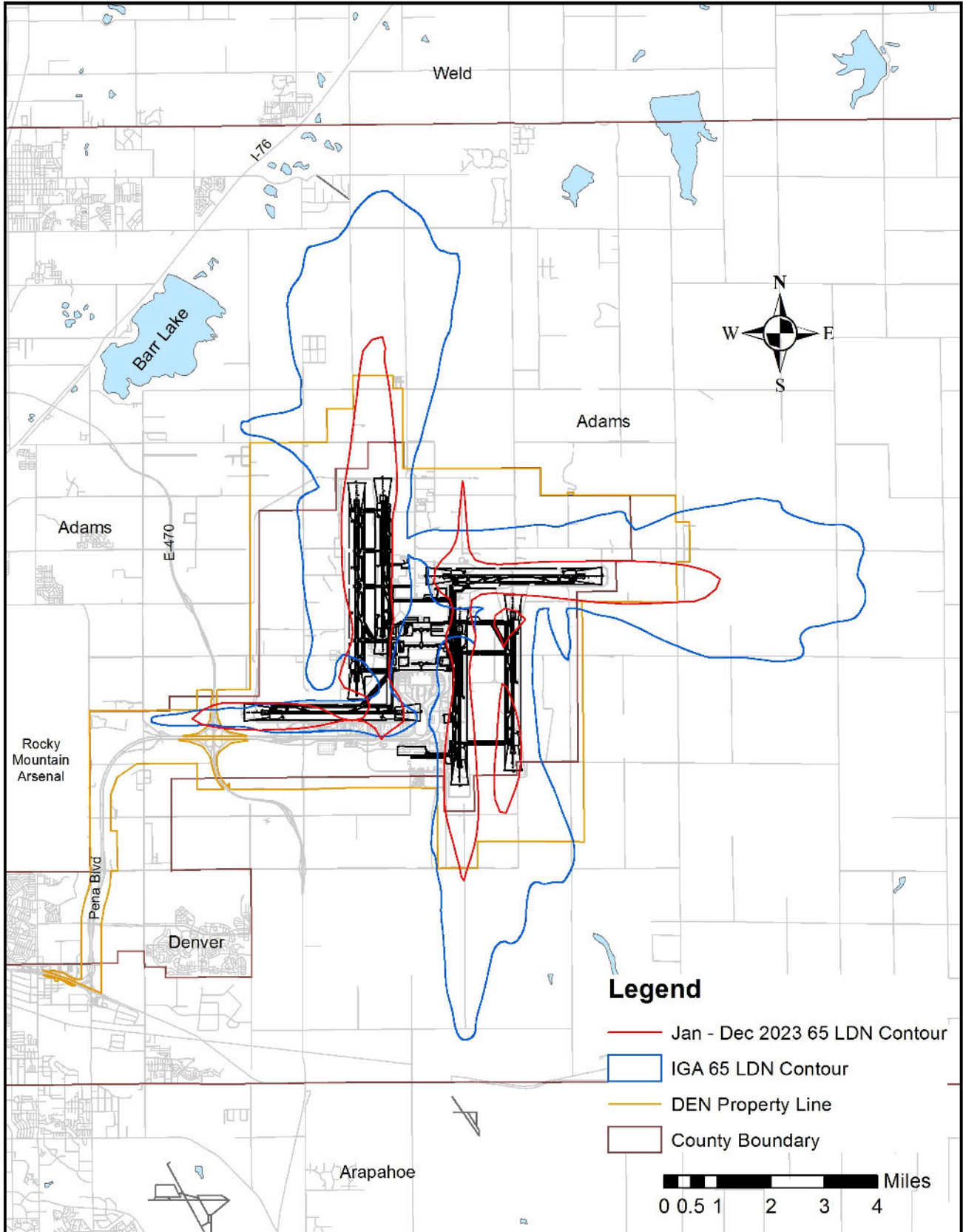
**Noise Exposure Standards (NEPS) Grid
 Coordinates, Land Use Contour, and
 Remote Monitoring Terminal (RMT) Locations**



Denver International Airport Recommended Noise Contours for Land Use Planning
 NOTE: These contours reflect the noise impacts that may be expected from full development of Denver International Airport. They are based on current modeling and differ slightly from the IGA Composite Contours.



January 1, 2023 - December 31, 2023
DEN 65 LDN Contour



DEN January 1 - December 31, 2023 65 LDN Contour

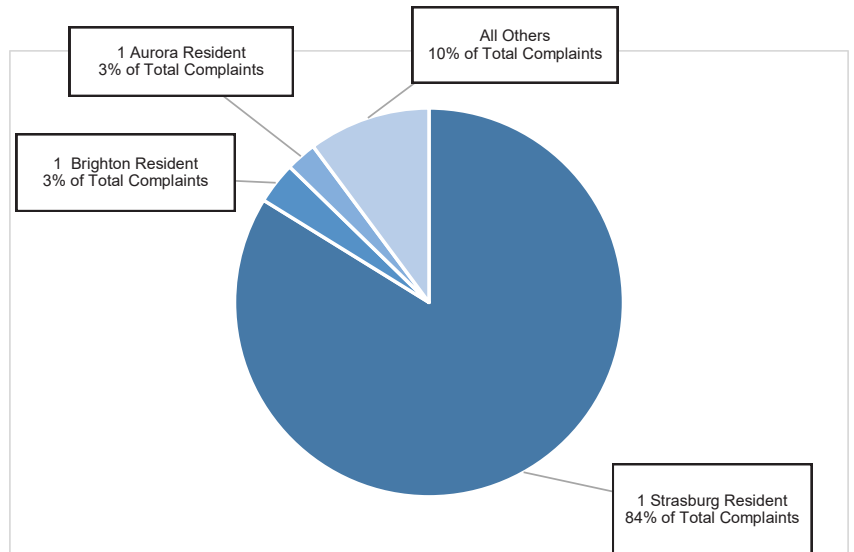
January 1, 2023 - December 31, 2023
DEN / Adams County IGA NEPS Values

Area 2				Area 1			
JAN-DEC 2023				JAN-DEC 2023			
Grid Points	IGA Annual Leq (24)	Calculated Leq (24)	Difference Leq	Grid Points	IGA Annual Leq (24)	Calculated Leq (24)	Difference Leq
A,1	38.6	36.8	-1.8	C,4	44.2	37.3	-7.0
A,2	37.6	36.1	-1.5	C,5	36.7	36.6	-0.1
A,3	42.3	39.3	-3.0	C,6	36.0	36.5	0.5
A,4	45.3	43.0	-2.3	D,4	41.1	36.5	-4.7
A,5	43.9	43.0	-0.9	D,5	34.2	36.3	2.1
A,6	37.5	39.5	2.0	D,6	36.0	36.9	0.9
A,7	37.7	35.6	-2.1	D,7	41.4	38.7	-2.7
A,8	36.5	34.0	-2.5	E,4	38.3	35.0	-3.3
A,9	36.3	34.9	-1.5	E,5	34.8	35.3	0.5
A,10	37.6	37.5	-0.1	E,6	36.7	33.7	-3.0
A,11	39.2	41.7	2.5	E,7	41.4	34.7	-6.7
A,12	41.2	40.3	-0.9	F,2	51.7	40.9	-10.8
B,2	39.5	36.5	-3.0	F,3	43.7	36.4	-7.3
B,4	42.5	43.3	0.8	F,5	37.3	32.6	-4.7
B,5	43.1	44.2	1.1	F,6	38.5	32.3	-6.2
B,6	39.0	40.0	1.0	F,7	42.1	33.0	-9.1
B,7	39.0	36.0	-3.0	G,2	51.2	42.1	-9.1
B,8	38.0	34.5	-3.5	G,3	42.1	36.3	-5.8
B,9	38.3	35.2	-3.1	G,4	40.2	32.7	-7.5
B,10	39.0	37.9	-1.1	H,2	50.1	44.0	-6.1
B,11	40.4	42.3	1.9	H,3	46.0	36.7	-9.3
B,12	42.6	40.7	-1.9	H,4	46.1	33.1	-13.0
C,2	41.0	37.3	-3.8	Area 3			
C,3	43.3	38.4	-4.9	JAN-DEC 2023			
C,4	43.5	43.3	-0.2	Grid Points	IGA Annual Leq (24)	Calculated Leq (24)	Difference Leq
C,5	43.4	45.3	1.9	A,-1	38.9	32.3	-6.6
C,6	43.3	40.6	-2.8	A,0	39.6	33.2	-6.4
C,7	43.3	36.4	-6.9	A,1	43.2	34.3	-8.9
C,8	42.6	35.1	-7.5	A,2	45.7	36.0	-9.7
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C,12	44.3	40.9	-3.4	B,1	42.6	34.6	-8.0
D,2	41.7	38.3	-3.5	B,2	45.8	36.1	-9.7
D,3	46.2	38.5	-7.7	B,3	45.7	38.2	-7.5
D,4	48.4	42.8	-5.6	C,-1	36.7	35.4	-1.3
D,5	48.2	46.3	-1.9	C,0	37.1	35.6	-1.5
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D,10	44.9	39.6	-5.3	D,0	33.3	33.5	0.2
D,11	44.5	43.8	-0.7	D,1	37.3	34.1	-3.2
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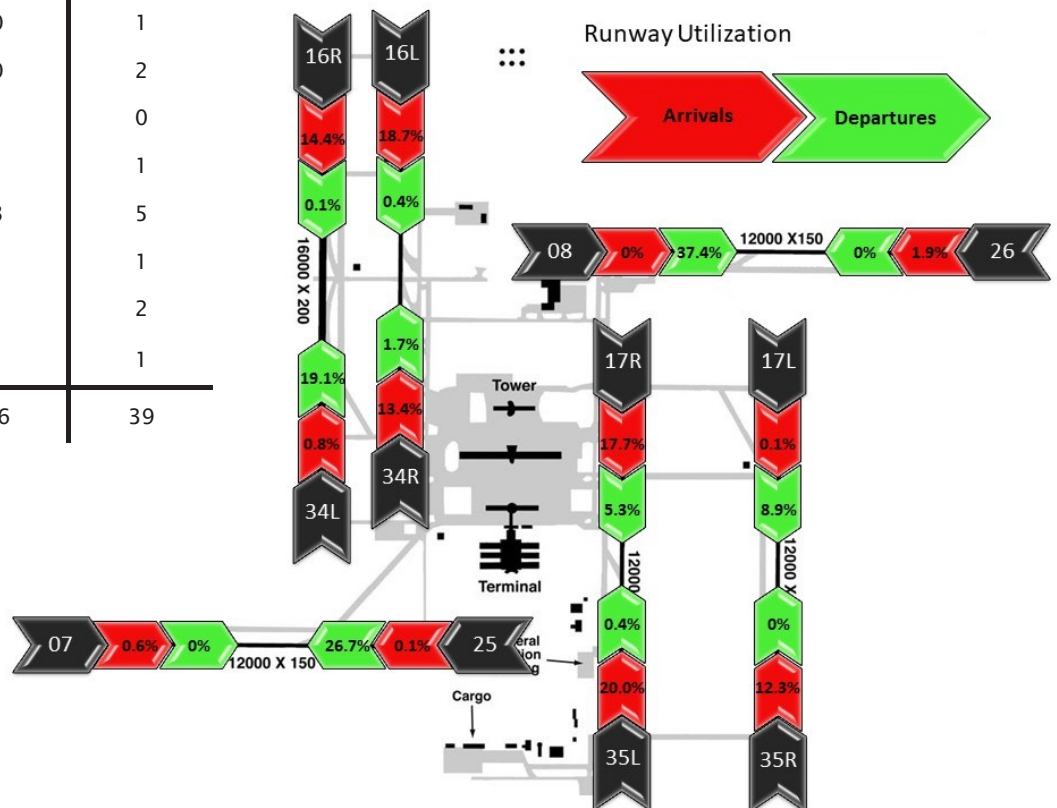
2023 Noise Complaint Calls by Community

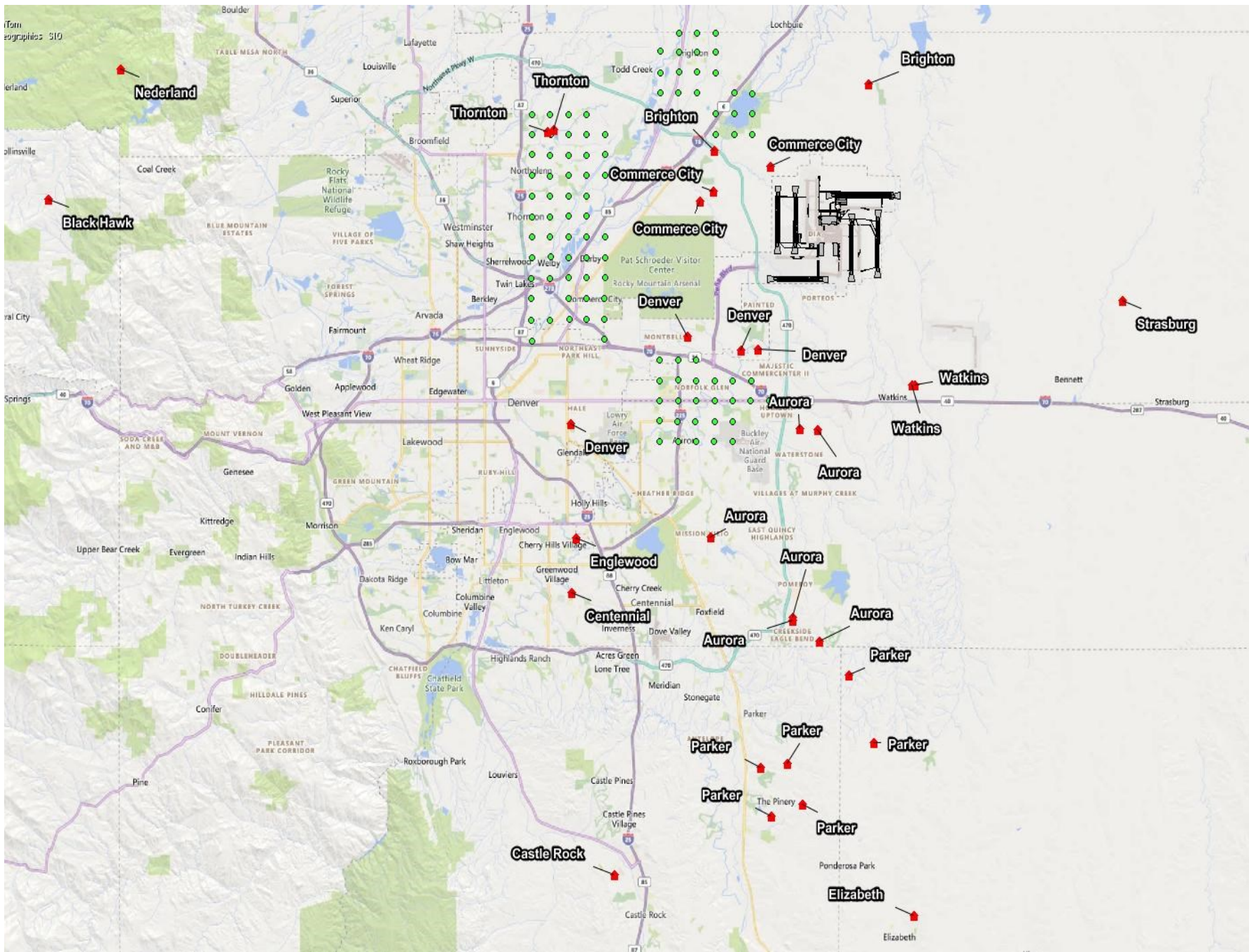
Community	No. of Households 2023	No. of Households 2022	No. of Households 2021
Arvada	0	2	4
Aurora	6	6	4
Black Hawk	1	0	0
Boulder	0	1	1
Brighton	2	0	2
Broomfield	0	0	1
Castle Rock	1	1	1
Centennial	1	0	0
Commerce City	3	4	2
Deer Trail	0	1	0
Denver	4	2	6
Elizabeth	1	0	3
Englewood	1	0	0
Evergreen	0	0	1
Golden	0	1	1
Hudson	0	0	1
Keenesburg	0	0	2
Lakewood	0	1	0
Nederland	1	1	1
Parker	6	3	5
Strasburg	1	1	1
Thornton	2	1	2
Watkins	2	1	1
Overall Total	32	26	39

Top 3 Complainants vs. All Others



Runway Utilization (% of Total Flight Operations)





January 1 - December 31, 2023 Noise Complaint Household Locations

- ▲ Household
- NEPS Point

January 1, 2023 - December 31, 2023
Noise Complaint Household Locations

DEN NOISE HOTLINE POLICY

The purpose of the DEN Noise Complaint Hotline is to provide an opportunity for individuals to express their concerns regarding noise generated by aircraft operating at DEN. Citizens are asked to leave their name, address, and the date and time of their complaint on the hotline. Complaints are downloaded daily by our Noise Officers and then transcribed into the NOMS system, where specific complaints can be matched to individual flight tracks. It is essential for all information to be entered correctly in order for the system to be effective.

Only one inquiry per call will be accepted. Multiple times and ranges of times will not be accepted, all aircraft operational inquiries need to be reported within one week of the occurrence. Abusive language or comments will not be tolerated. Threats involving aircraft and or the airport will result in notification of the proper authorities. Please note, all calls are recorded and recordings are subject to disclosure under the Federal Freedom of Information Act and the Colorado Open Records Act.

<https://www.flydenver.com/business-and-community/noise-and-airspace/>

DEN NOISE OFFICE — AOB, 6TH FLOOR, NW CORNER — 8500 PEÑA 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

