

DEN Noise Report

January 1, 2018 — December 31, 2018



Results

January 1, 2018 — December 31, 2018

Only one potential Class II NEPS exceedance was registered between January 1 through December 31, 2018. This potential Class II exceedance occurred in Area 3 at F, 2. The high result was due to a planned maintenance-related runway closure of RWY 7/25 from June 1 to August 31, 2018, which resulted in significant air traffic over the NEPS point at F, 2 for the duration of the closure. One potential Class II NEPS exceedance occurred at a different NEPS point during the same period the previous year in Area 2 at E, 2. The exceedance at E, 2 was not repeated in 2018. Please see pages 3 and 5 for Denver International Airport (DEN) NEPS information. There was no potential 65 DNL noise contour violation for either time period, as the 65 DNL contour continued to be completely contained within the boundaries of the City and County of Denver (CCD). Please see page 4 for DEN contour map.

The number of households registering at least one complaint decreased from the year before from 71 in 2017 to 54 in 2018. Three households registered a combined 66 percent of total complaints for 2018. The number of complaints decreased slightly for 2018 as compared to the same period in 2017 (3370 vs. 3494 in 2017). Please see page 6 for complete complaint and runway utilization data, and page 7 for a household location map.

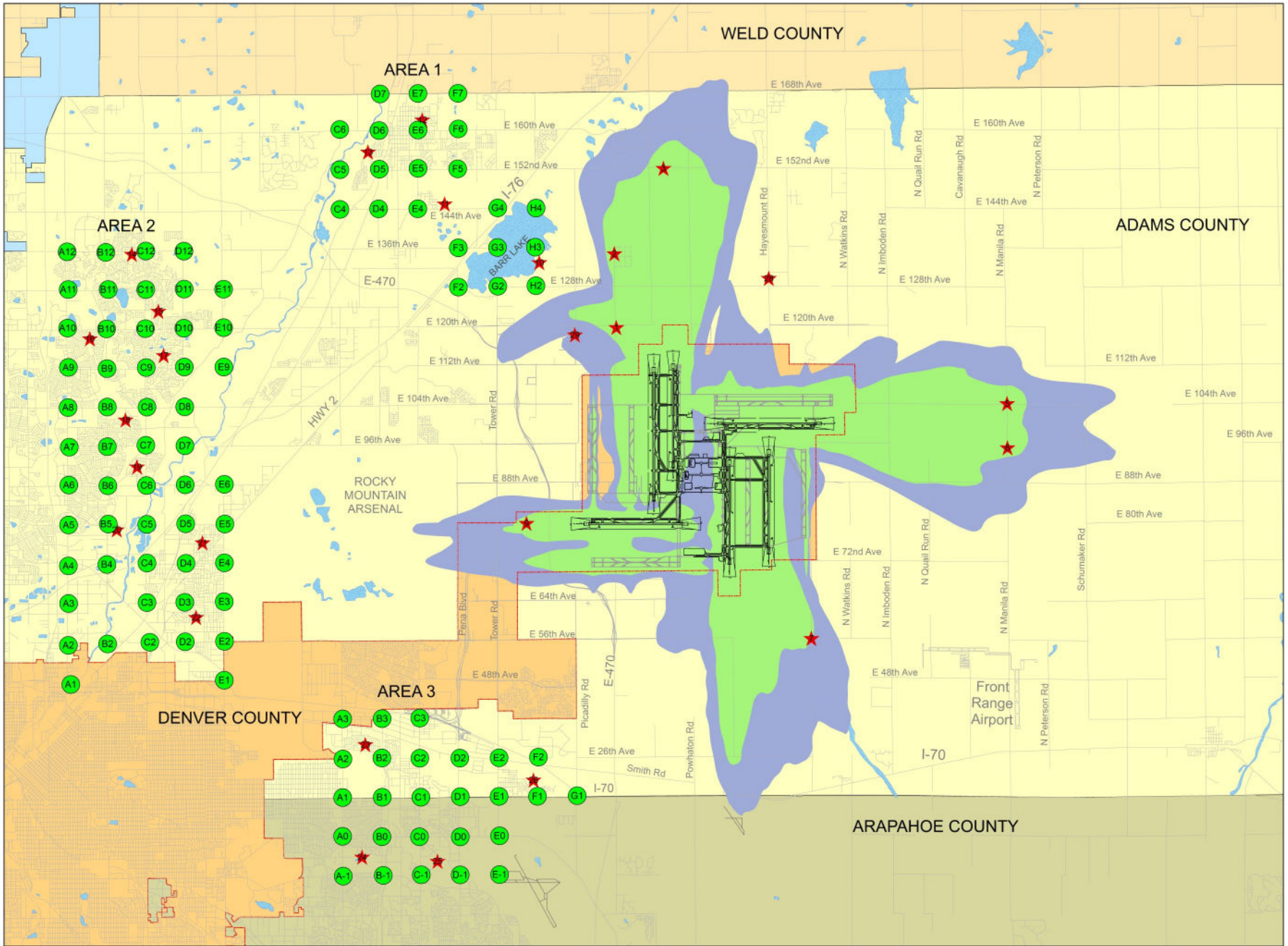
To access the DEN 2018 Annual Noise Report, as well as other reports and information please go to: http://www.flydenver.com/about/administration/noise_management.

NOMS for Airports

The DEN Noise and Operations Monitoring System (SYMPHONY EnvironmentalVue 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. In addition to monitoring noise levels, the system calculates Noise Exposure Performance Standards (NEPS) at 101 grid points in Adams County (see map on page 3 for NEPS locations).

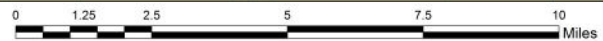
The DEN NOMS for Airports monitors noise levels at 26 permanent and one portable noise monitoring terminals. These terminals are located throughout the Denver metro area (see map on page 3 for RMT locations).

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.



Denver International Airport Recommended Noise Contours for Land Use Planning

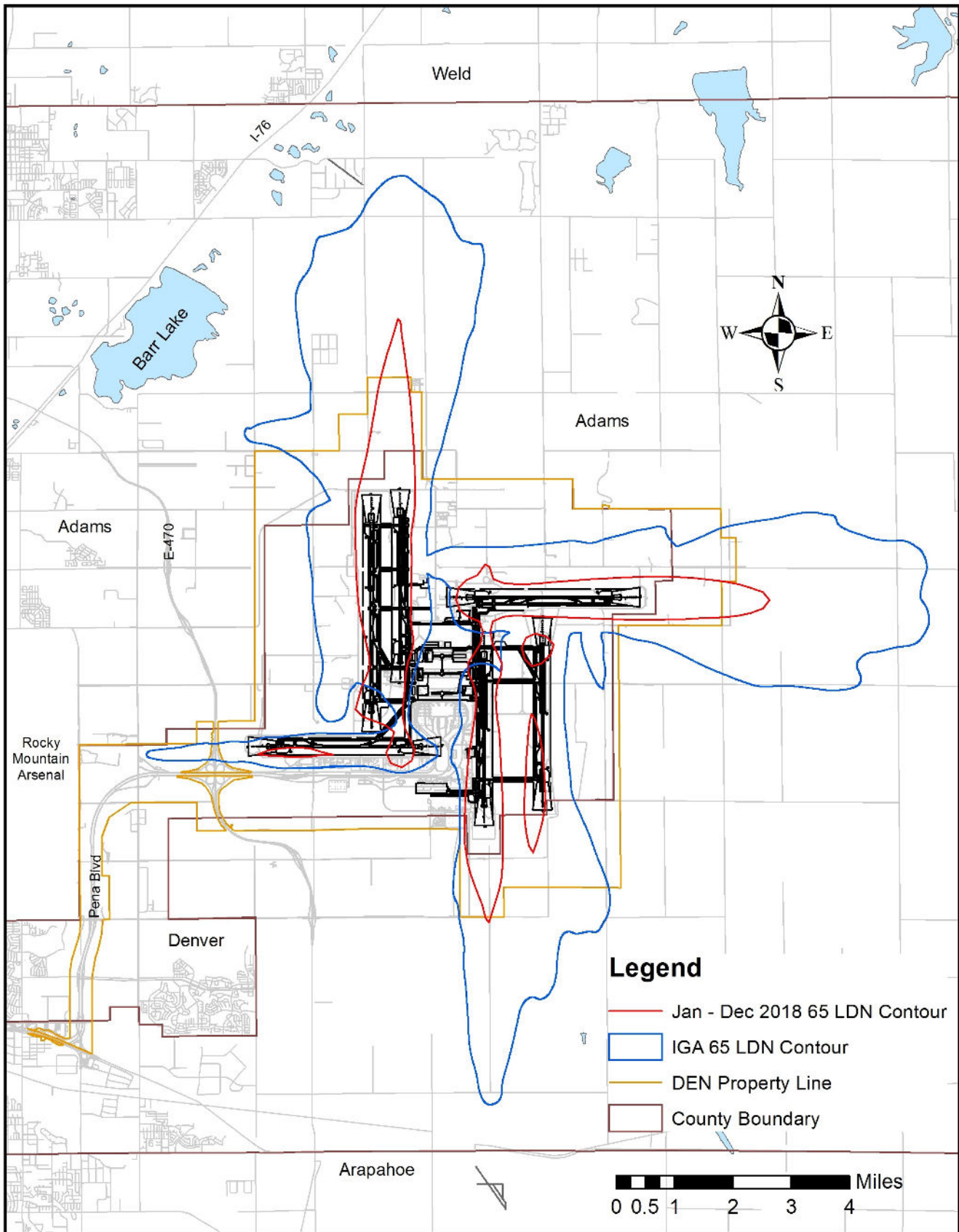
NOTE: These contours reflect the noise impacts that may be expected from full development of Denver International Airport. They are based on current modeling and differ slightly from the IGA Composite Contours.



Prepared By Annia Christensen, DEN Noise Officer 10/2017

- 60 LDN Contour
- 65 LDN Contour
- NEPS Locations
- Noise Monitoring Terminals

January 1, 2018 - December 31, 2018
DEN 65 LDN Contour



DEN January 1 - December 31, 2018 Contour

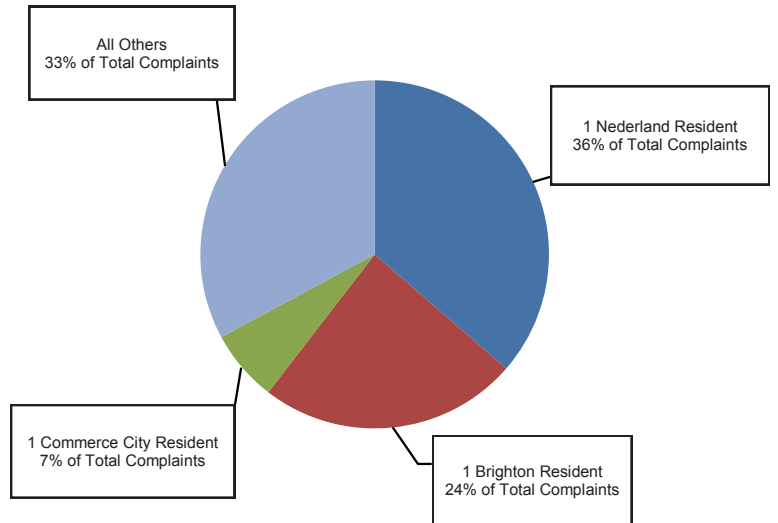
January 1, 2018 - December 31, 2018
DEN / Adams County IGA NEPS Values

Area 2				Area 1			
Jan - Dec 2018				Jan - Dec 2018			
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	40.2	1.6	C,4	44.2	36.8	-7.4
A,2	37.6	37.6	0.0	C,5	36.7	35.6	-1.1
A,3	42.3	36.2	-6.1	C,6	36.0	35.2	-0.8
A,4	45.3	38.1	-7.2	D,4	41.1	35.6	-5.5
A,5	43.9	38.8	-5.2	D,5	34.2	34.7	0.5
A,6	37.5	35.4	-2.1	D,6	36.0	34.5	-1.5
A,7	37.7	34.0	-3.7	D,7	41.4	35.5	-5.9
A,8	36.5	35.0	-1.5	E,4	38.3	34.0	-4.3
A,9	36.3	36.4	0.1	E,5	34.8	34.1	-0.8
A,10	37.6	37.3	-0.3	E,6	36.7	31.7	-5.0
A,11	39.2	39.2	0.0	E,7	41.4	32.1	-9.3
A,12	41.2	40.5	-0.7	F,2	51.7	42.8	-9.0
B,2	39.5	39.1	-0.4	F,3	43.7	36.6	-7.1
B,4	42.5	38.7	-3.8	F,5	37.3	31.1	-6.2
B,5	43.1	39.2	-4.0	F,6	38.5	30.7	-7.8
B,6	39.0	36.3	-2.7	F,7	42.1	31.2	-10.9
B,7	39.0	34.6	-4.4	G,2	51.2	43.1	-8.1
B,8	38.0	35.7	-2.3	G,3	42.1	36.3	-5.8
B,9	38.3	37.1	-1.2	G,4	40.2	31.7	-8.5
B,10	39.0	38.4	-0.6	H,2	50.1	44.4	-5.8
B,11	40.4	40.7	0.3	H,3	46.0	36.9	-9.1
B,12	42.6	40.4	-2.2	H,4	46.1	32.7	-13.4
C,2	41.0	40.3	-0.7	Area 3 Jan - Dec 2018			
C,3	43.3	38.6	-4.7				
C,4	43.5	39.5	-4.1				
C,5	43.4	39.6	-3.8				
C,6	43.3	36.9	-6.4				
C,7	43.3	35.3	-8.0				
C,8	42.6	36.5	-6.1				
C,9	42.2	38.1	-4.1				
C,10	41.6	40.1	-1.5				
C,11	42.5	41.4	-1.1				
C,12	44.3	40.3	-4.0				
D,2	41.7	41.5	-0.2				
D,3	46.2	39.4	-6.8	A,-1	38.9	31.3	-7.7
D,4	48.4	40.3	-8.1	A,0	39.6	32.7	-6.9
D,5	48.2	40.2	-8.0	A,1	43.2	35.2	-8.0
D,6	46.2	37.5	-8.7	A,2	45.7	38.4	-7.3
D,7	44.2	36.2	-8.0	A,3	45.6	36.6	-9.0
D,8	43.7	37.5	-6.2	B,-1	37.9	32.2	-5.7
D,9	43.1	39.5	-3.6	B,0	39.2	33.3	-5.9
D,10	44.9	42.1	-2.9	B,1	42.6	35.7	-6.9
D,11	44.5	41.3	-3.2	B,2	45.8	39.2	-6.6
D,12	45.1	40.1	-5.0	B,3	45.7	37.1	-8.6
E,1	42.4	40.8	-1.6	C,-1	36.7	35.1	-1.6
E,2	42.2	42.9	0.7	C,0	37.1	35.5	-1.6
E,3	46.7	40.5	-6.2	C,1	39.5	36.9	-2.6
E,4	51.2	41.0	-10.2	C,2	44.8	40.3	-4.5
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E,9	43.1	42.1	-1.0	D,0	33.3	33.1	-0.2
E,10	43.1	42.9	-0.2	D,1	37.3	35.9	-1.4
E,11	46.1	40.0	-6.1	D,2	43.0	40.5	-2.5
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				E,1	36.2	35.6	-0.6
				E,2	40.6	41.2	0.6
				F,1	36.5	35.5	-1.0
				F,2	39.4	42.1	2.7
				G,1	42.5	35.4	-7.1

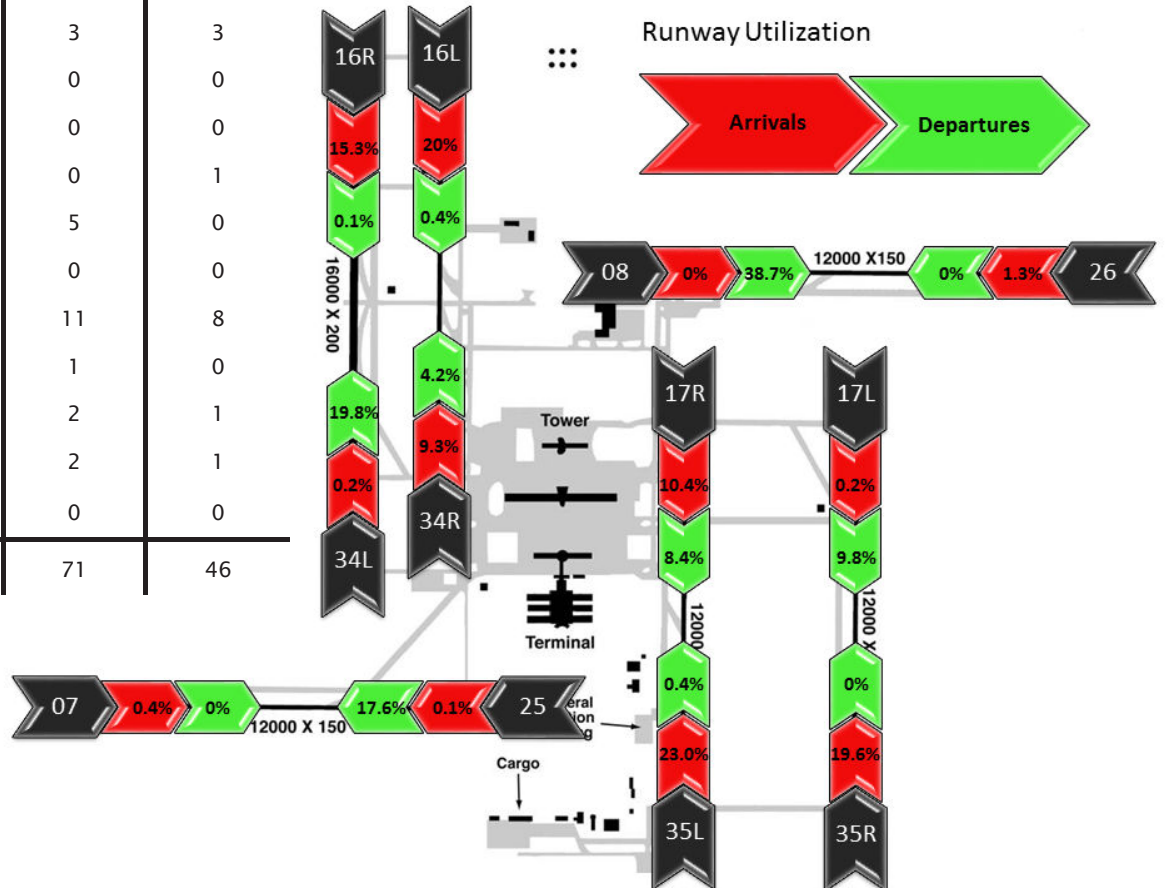
2018 Noise Complaint Calls by Community

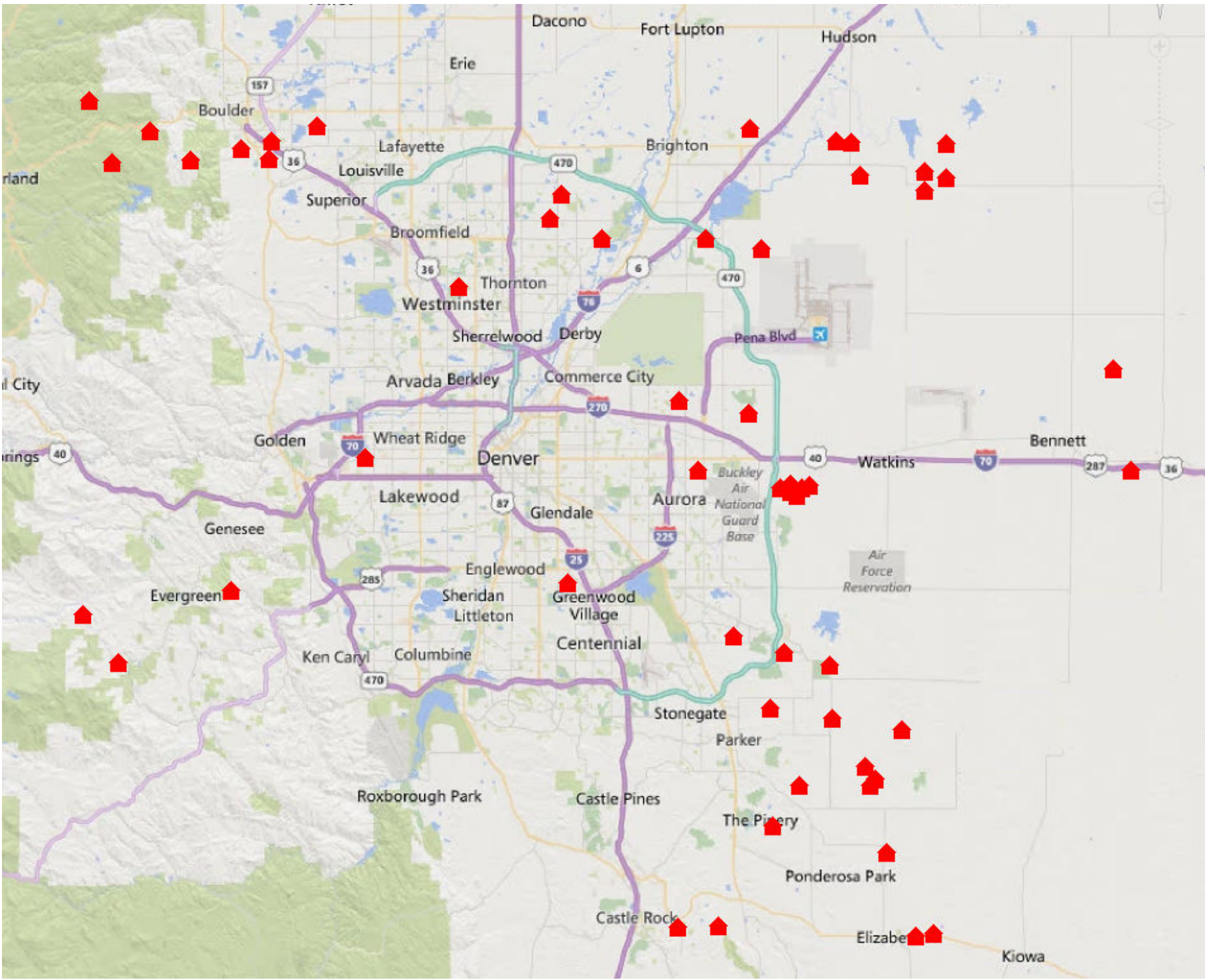
Community	No. of Households 2018	No. of Households 2017	No. of Households 2016
Aurora	10	11	8
Boulder	6	8	1
Brighton	4	6	8
Broomfield	0	0	1
Castle Rock	1	0	0
Commerce City	1	4	4
Denver	2	7	4
Elizabeth	3	4	2
Englewood	1	1	0
Evergreen	2	1	0
Golden	0	1	1
Franktown	1	0	0
Hudson	2	4	3
Indian Hills	1	0	0
Keenesburg	2	3	3
Lakewood	1	0	0
Lochbuie	1	0	0
Louisville	0	0	1
Nederland	2	5	0
Northglenn	0	0	0
Parker	8	11	8
Pine	0	1	0
Strasburg	2	2	1
Thornton	3	2	1
Westminster	1	0	0
Overall Total	54	71	46

Top 3 Complainants vs. All Others



Runway Utilization (% of Total Flight Operations)





January 1, 2018 - December 31, 2018
 Noise Complaint Household Locations

DEN NOISE HOTLINE POLICY

The purpose of the DEN Noise Inquiry 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. Inquiry's are downloaded daily by our Noise Officers and then transcribed into the NOMS for Airports 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.

Profanity will not be tolerated, and will result in the inquiry not being registered. Any attempt to deliberately tie-up or abuse the Hotline may result in police action. Phone harassment is a state criminal offense and can carry a jail sentence and/or fine. Threats involving aircraft and/or the airport are a very serious matter and are a federal criminal offense. To make a threat, even jokingly, will result in a notification to the Denver Police Department and may involve an FBI investigation.

Complaint data becomes public record. All data contained in a noise complaint record, made either via phone and/or email, are archived and are subject to disclosure under the Federal Freedom of Information Act (FOIA) and the Colorado Open Records Act (CORA).

http://www.flydenver.com/about/administration/noise_management

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**

