

DEN Noise Report

January 1, 2017 — December 31, 2017



Results

January 1, 2017 — December 31, 2017

The number of potential Class II NEPS violations registered between January 1 through December 31, 2017 was one. This potential Class II violation occurred in Area 2 at E, 2. This was due to a planned maintenance-related runway closure of RWY 8/26 from July 10 to Nov 3, 2017 that resulted in significant air traffic over the NEPS point for the duration of the closure. 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 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 increased slightly from the year before from 46 in 2016 to 71 in 2017. Three households registered a combined 76 percent of total complaints for 2017. The number of complaints decreased slightly for 2017 as compared to the same period in 2016 (3494 vs. 4664 in 2016). Please see page 6 for complete complaint and runway utilization data, and page 7 for a household location map.

To access the DEN 2017 Annual Noise Report, as well as other reports and information please go to: http://www.flydenver.com/about/administration/noise_management.

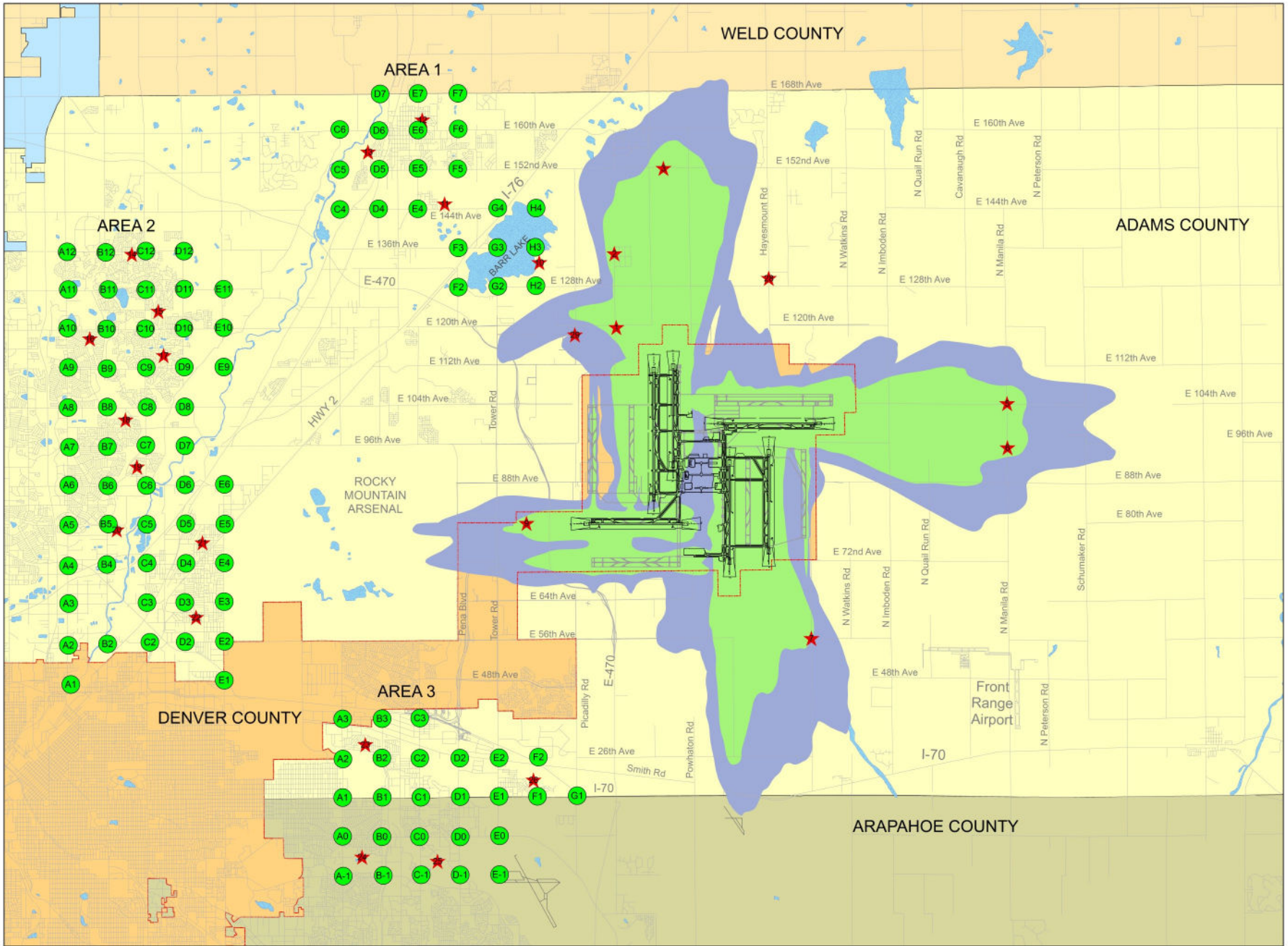
ANOMS

The DEN Airport Noise and Operations Monitoring System (ANOMS) 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 ANOMS system monitors noise levels at 27 permanent and one portable noise monitoring terminals. These terminals are located throughout the Denver metro area (see map on page 3 for RMT locations).

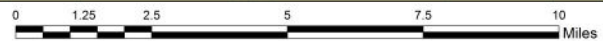
The system also records the movement of all aircraft in the vicinity of DEN by utilizing FAA air traffic control radar data. This makes it possible to match actual flights with noise events.

**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

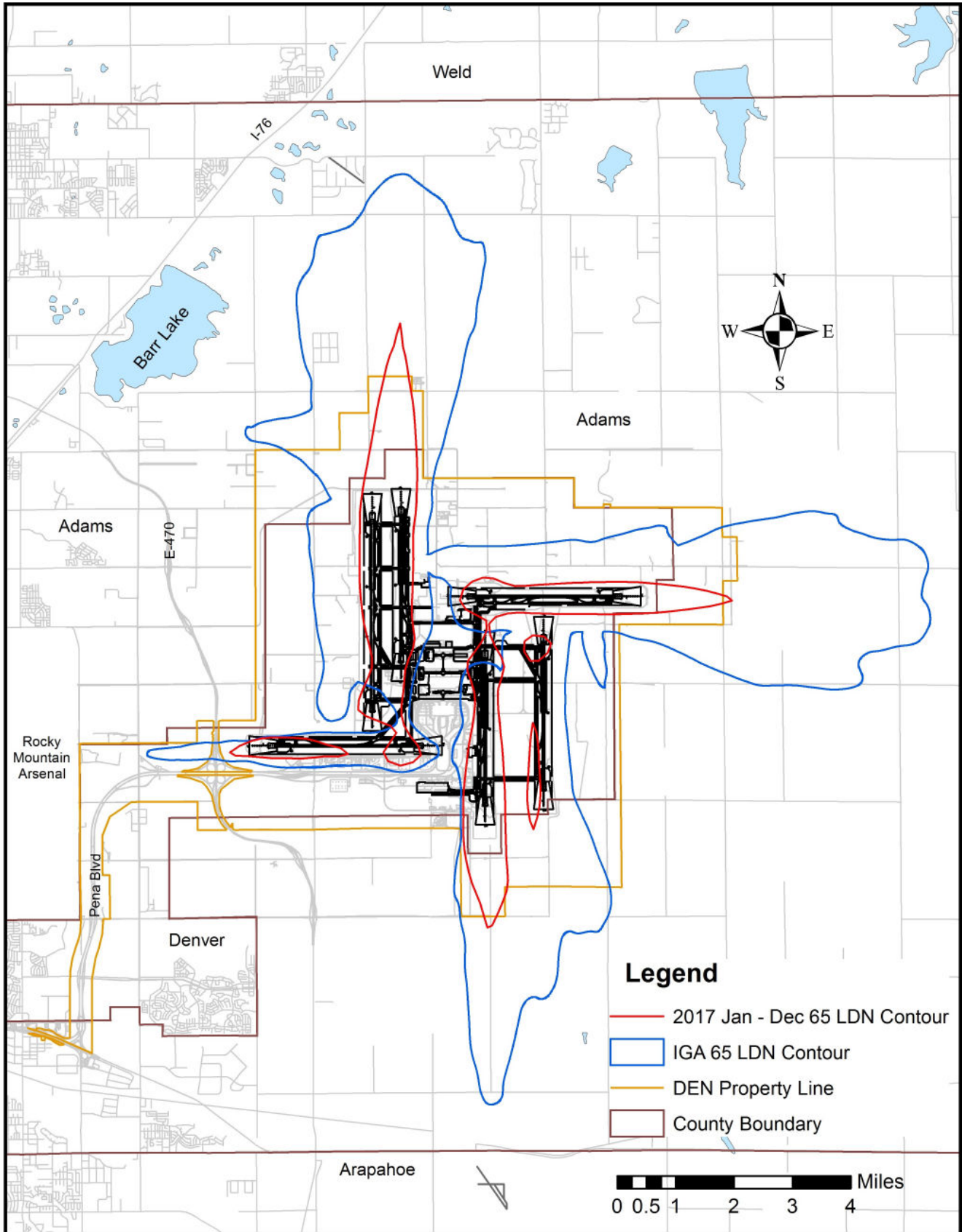
NOTE: These contours reflect the noise impacts that may be expected from full development of Denver International Airport. They are based on current modeling and differ slightly from the IGA Composite Contours.



Prepared By Annia Christensen, DEN Noise Officer 10/2017

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

January 1, 2017 - December 31, 2017
DEN 65 LDN Contour



DEN January 1 - December 31, 2017 Contour

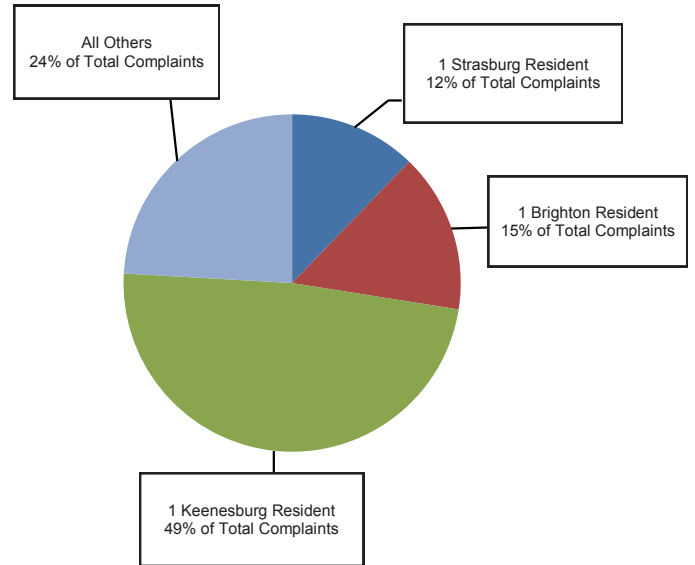
January 1, 2017 - December 31, 2017
DEN / Adams County IGA NEPS Values

Area 2				Area 1			
Jan - Dec, 2017				Jan - Dec, 2017			
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	40.3	1.7	C,4	44.2	36.1	-8.1
A,2	37.6	37.5	-0.1	C,5	36.7	35.2	-1.5
A,3	42.3	35.9	-6.4	C,6	36.0	35.1	-0.9
A,4	45.3	37.4	-7.9	D,4	41.1	35.2	-5.9
A,5	43.9	38.2	-5.7	D,5	34.2	34.5	0.3
A,6	37.5	34.9	-2.6	D,6	36.0	34.2	-1.8
A,7	37.7	34.2	-3.5	D,7	41.4	35.2	-6.2
A,8	36.5	35.6	-0.9	E,4	38.3	34.3	-4.0
A,9	36.3	37.0	0.7	E,5	34.8	34.4	-0.4
A,10	37.6	37.5	-0.1	E,6	36.7	32.1	-4.6
A,11	39.2	38.9	-0.3	E,7	41.4	32.3	-9.2
A,12	41.2	39.7	-1.5	F,2	51.7	41.6	-10.1
B,2	39.5	39.0	-0.5	F,3	43.7	36.3	-7.5
B,4	42.5	38.1	-4.4	F,5	37.3	31.8	-5.5
B,5	43.1	38.8	-4.3	F,6	38.5	31.3	-7.2
B,6	39.0	35.6	-3.4	F,7	42.1	32.1	-10.0
B,7	39.0	34.9	-4.1	G,2	51.2	42.1	-9.1
B,8	38.0	36.4	-1.6	G,3	42.1	35.9	-6.2
B,9	38.3	37.7	-0.6	G,4	40.2	32.1	-8.1
B,10	39.0	38.6	-0.4	H,2	50.1	43.3	-6.8
B,11	40.4	40.4	0.0	H,3	46.0	36.7	-9.4
B,12	42.6	39.7	-2.9	H,4	46.1	33.6	-12.5
C,2	41.0	40.8	-0.2	Area 3 Jan - Dec, 2017			
C,3	43.3	38.2	-5.1				
C,4	43.5	38.9	-4.6				
C,5	43.4	39.4	-4.0				
C,6	43.3	36.4	-6.9				
C,7	43.3	35.6	-7.7				
C,8	42.6	37.1	-5.5				
C,9	42.2	38.8	-3.5				
C,10	41.6	40.4	-1.2				
C,11	42.5	41.3	-1.2				
C,12	44.3	40.0	-4.3				
D,2	41.7	42.5	0.8				
D,3	46.2	39.4	-6.9	A,-1	38.9	32.0	-6.9
D,4	48.4	39.7	-8.7	A,0	39.6	33.1	-6.6
D,5	48.2	40.3	-7.9	A,1	43.2	34.8	-8.4
D,6	46.2	37.0	-9.2	A,2	45.7	37.2	-8.5
D,7	44.2	36.4	-7.8	A,3	45.6	36.2	-9.4
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D,12	45.1	39.8	-5.3	B,3	45.7	36.5	-9.2
E,1	42.4	42.5	0.1	C,-1	36.7	35.0	-1.8
E,2	42.2	44.5	2.3	C,0	37.1	35.1	-2.0
E,3	46.7	41.2	-5.5	C,1	39.5	36.3	-3.3
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				F,2	39.4	40.5	1.1
				G,1	42.5	34.6	-7.9

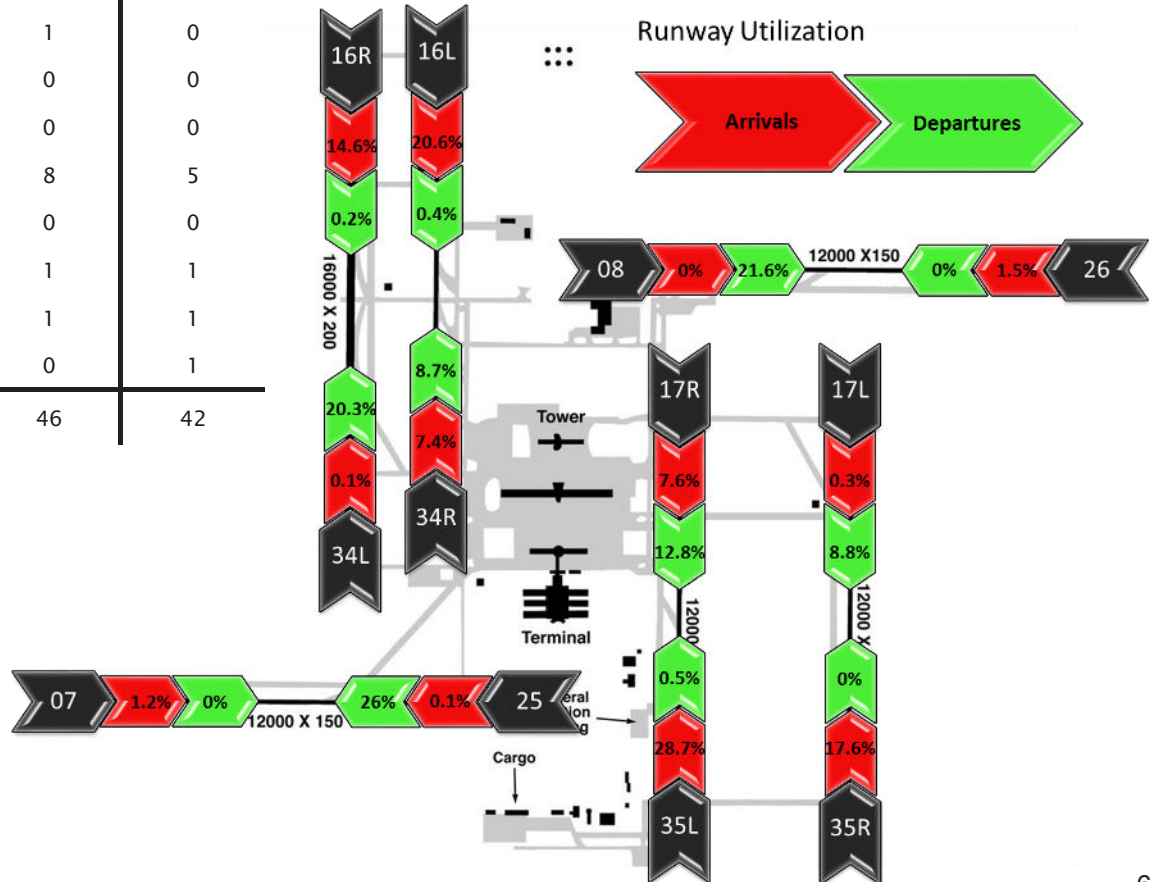
2017 Noise Complaint Calls by Community

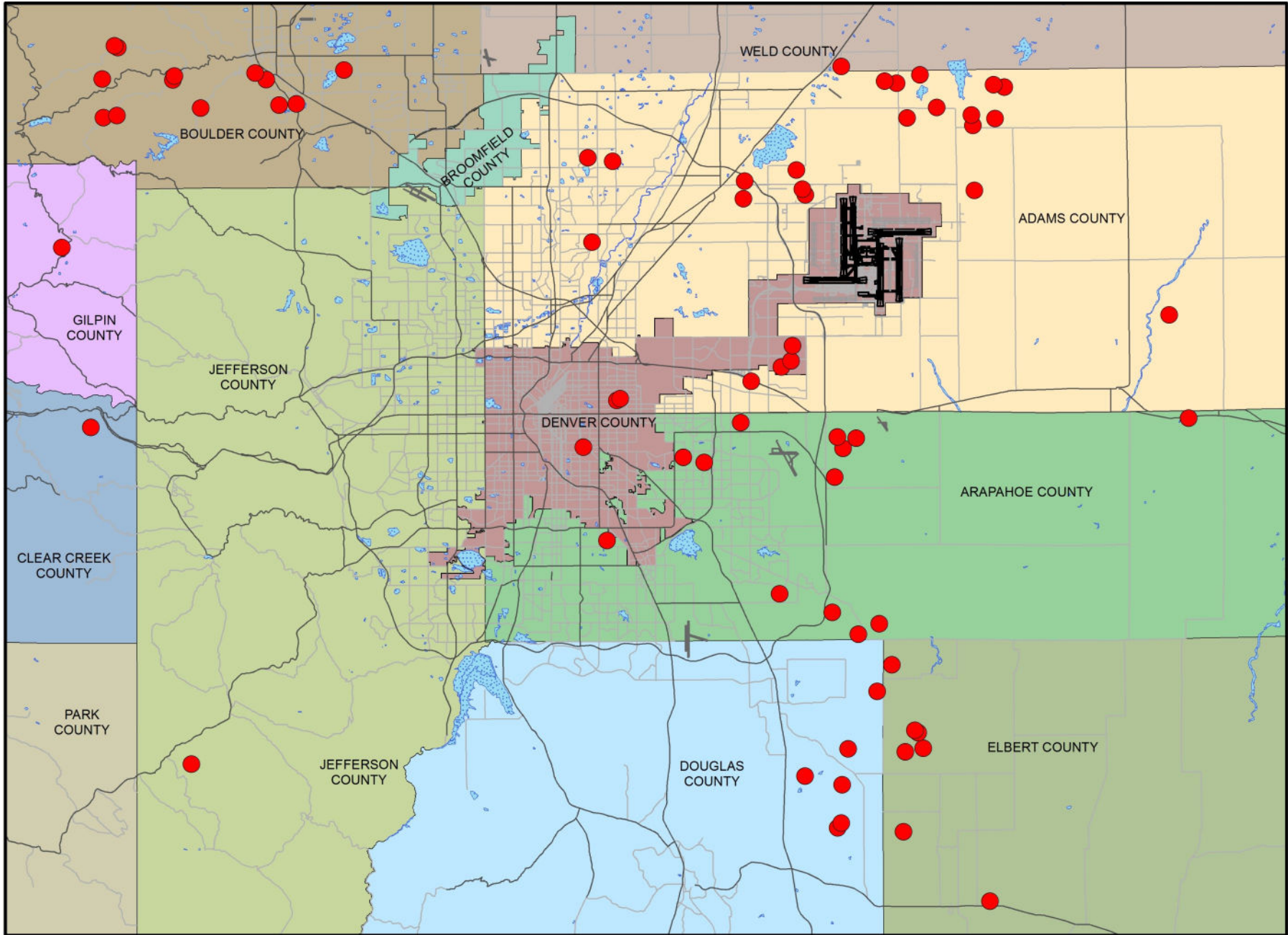
Community	No. of Households 2017	No. of Households 2016	No. of Households 2015
Arvada	0	0	0
Aurora	11	8	10
Bennett	0	0	0
Boulder	8	1	2
Brighton	6	8	5
Broomfield	0	1	0
Commerce City	4	4	7
Denver	7	4	3
Elizabeth	4	2	2
Englewood	1	0	0
Evergreen	1	0	0
Golden	1	1	0
Hudson	4	3	4
Keenesburg	3	3	1
Louisville	0	1	0
Nederland	5	0	0
Northglenn	0	0	0
Parker	11	8	5
Pine	1	0	0
Strasburg	2	1	1
Thornton	2	1	1
Watkins	0	0	1
Overall Total	71	46	42

Top 3 Complainants vs. All Others



Runway Utilization (% of Total Flight Operations)





January 1, 2017 - December 31, 2017
 Noise Complaint Household Locations

DEN JANUARY - DECEMBER 2017 DEN NOISE COMPLAINT HOUSEHOLD LOCATIONS

N
 0 1.5 3 6 9 12 Miles
 Prepared By Annie Christensen, DEN Noise Officer 1/2018

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 ANOMS 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 complaint 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.

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

