



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

AGENDA

May 1, 2024

6:30 p.m. – 8:30 p.m.

Centennial Airport, 7565 S. Peoria Street, Unit D9, Englewood, CO 80112

Chair: Chris Eubanks **Vice Chair:** Pam Thompson **Treasurer:** Andy Jones **Secretary:** Alison Biggs

**Members' Representatives and Alternate Representatives are requested to attend all meetings in person.
Members of the public may attend meetings in person, or virtually.**

CACNR Mission:

CACNR will bring together airport, community, FAA, and aviation industry representatives to collaboratively identify and discuss noise issues at Centennial Airport and recommend courses of action that could reduce noise over affected communities.

A. CALL TO ORDER AND DETERMINATION OF QUORUM:

<i>Arapahoe County:</i>	Leslie Summey/Sreenivasan Alakappan Vacant/Vacant	<i>Greenwood Village:</i>	Donna Johnston/Libby Barnacle
<i>Douglas County:</i>	Abe Laydon/Dan Avery Alison Biggs/Mark Adams	<i>Highlands Ranch Metro Dist.</i>	Andy Jones/Renee Anderson
<i>Aurora:</i>	Brad Pierce/Mindy Parnes	<i>Lone Tree:</i>	Mike Anderson/Chuck Darnell
<i>Castle Pines:</i>	Chris Eubanks/Ron Cole	<i>Parker:</i>	Ashley Chasez/Bryce Matthews
<i>Castle Rock:</i>	Laura Cavey/Sandy Vossler	<i>ACPAA:</i>	Michael Fronapfel/Vacant
<i>Centennial:</i>	Don Sheehan/Amy Tharp	<i>AOPA:</i>	John Hirshman/Brad Schuster
<i>Cherry Hills Village</i>	Robert Eber/Randy Weil	<i>CABA:</i>	Don Kuskie/Mike Straka
<i>Foxfield:</i>	Pam Thompson/Frank Lawrence	<i>CDOT Aeronautics Div:</i>	Todd Green/Vacant
		<i>Wings Over the Rockies:</i>	Bill Wasmund/Jordan Ashley

B. CONSENT AGENDA: (items here may be moved to Agenda Item #3, on the request of any CACNR Representative)

- A. DRAFT MINUTES, April 3, 2024 – Brad Pierce
- B. TREASURER'S REPORT, April 2024 - Zach Gabehart, ACPAA Staff, Andy Jones, Treasurer
- C. NOISE REPORT, March 2024- Zach Gabehart, ACPAA Staff

3. ITEMS REMOVED FROM CONSENT AGENDA:

4. CACNR ORIENTATION:

- A. Noise 101 Virtual/Video– Mead & Hunt

5. CACNR STUDY GROUP COMMITTEE: Brad Pierce, Chris Eubanks, Mike Fronapfel

6. PART 150 STUDY UPDATE/PROGRESS:

- A. Meeting Schedules for CACNR; Study Advisory Committee
- B. Noise Contours
- C. Modeling, Evaluation, Refinement
- D. Advance Notices for Brainstorming
- E. Other Items for Consideration/Interest

7. EXECUTIVE COMMITTEE:

- A. ATTENDANCE AT ACPAA MEETINGS – Pam Thompson to represent CACNR at May 9th Board Meeting
- B. RETREAT PRIORITIES

8. REPRESENTATIVES' COMMENTS:

9. OTHER REGULAR REPORTS:

- A. AIRPORT DIRECTOR – Mike Fronapfel, KAPA Staff
 - 1. Flight School Activity
 - 2. Aviation Fuel – How Much Sold/What Kind
 - 3. Community Related Activity
 - 4. Other Airport Activity
 - 5. Legislative

6. Status of Follow Up Items

9. **OLD BUSINESS:**

A. 2023-2024 CACNR Attendance Record (Postponed)

10. **NEW BUSINESS:**

11. **PUBLIC COMMENT:** (3 minutes per person time limit):

A. RECEIVED BY CACNR

B. MEETING ATTENDEES /VIRTUAL ATTENDEES

12. **NEXT MEETINGS:**

A. **CACNR –**

June 5, 2024

6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112

July 3, 2024

NO MEETING

August 7, 2024

6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112

B. **ACPAA**

May 9, 2024

3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112

June 13, 2024

3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112

July 2024

NO MEETING

C. **PART 150 MEETING DATES**

TBD

13. **ADJOURN:**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

APRIL 3RD, 2024 DRAFT MEETING MINUTES

VISION – QUIETER SKIES FOR OUR COMMUNITIES

MISSION – CACNR WILL BRING TOGETHER AIRPORT, COMMUNITY, FAA, AND AVIATION INDUSTRY REPRESENTATIVES TO COLLABORATIVELY IDENTIFY AND DISCUSS NOISE ISSUES AT CENTENNIAL AIRPORT AND RECOMMEND COURSES OF ACTION THAT COULD REDUCE NOISE OVER AFFECTED COMMUNITIES.

Chair: Chris Eubanks Vice Chair: Pam Thompson Treasurer: Andy Jones Secretary: Alison Biggs

1. CALL TO ORDER AND DETERMINATION OF QUOROM

The meeting was called to order at 6:35 p.m. by Chair Chris Eubanks. The following were in attendance, and a quorum was present:

Arapahoe County: Leslie Summey
Douglas County: Dan Avery
Aurora: Brad Pierce
Castle Pines: Chris Eubanks / Ron Cole
Castle Rock: Sandy Vossler
Centennial: Don Sheehan / Amy Tharp
Cherry Hill Village: Robert Eber

Foxfield: Pam Thompson
Lone Tree: Mike Anderson
Parker: Ashley Chavez
ACPAA: Samatha Blymyer / Lauren Wiarda
AOPA: John Hirshman
CABA: Don Kuskie

2. CONSENT AGENDA

The Consent Agenda included the Draft CACNR Minutes from March 6, 2024; a Treasurer’s Report from March 29, 2024, showing a balance of \$26,572.88; and the Noise Report from February 2024 <https://drive.google.com/file/d/1IkN0lvh9FrnHCw37TRAz0TivtGqxqqTn/view>

On the motion of Mike Anderson, Don Sheehan duly seconded, the Consent Agenda was approved.

3. ITEMS REMOVED FROM THE CONSENT AGENDA – none

4. CACNR ORIENTATION –

Discussion of Structure & Content for Future CACNR Member’s Orientation

- Propeller Shape, Effects and Mandates
- Types of Noise (Prop/ Jet/ Helicopter) vs Altitude, Topography and Weather
- Designated Flight Patterns
- “What” Makes Noise – Science vs Perception - How “quiet” can we be? How does noise affect the community?
- Metrics – Measurements
- Role and Responsibilities of CACNR, the Airport and the FAA
- Policies Pre-ANCA and Post-ANCA

A. Airport Operations Overview presented by Lauren Wiarda

- How it Began – Opening day 1968
- Who We Are
- Economic Impact
- Finding Balance
- Noise Monitoring
- Current / Future Projects
- Community Giving

B. CACNR Structure Overview presented by Brad Pierce

- CACNR created because of 2008 Part 150 Study
- Members from surrounding cities and counties are appointed as representatives to CACNR.
- Funding collected from ACPAA and each jurisdiction. Jurisdictions were not billed for 2020-2024 due to Covid and minimal expenditures on the part of CACNR.
- Overview of CACNR By Laws which were adopted in accordance with CACNR 's Memorandum of Understanding (MOU).
- CACNR is an Advisory Board. We have no authority.

5. CACNR STUDY GROUP COMMITTEE

Elements in the next quarterly report will include previous years of data vs data collected after which the new ideas were implemented. Reminder that the Study Group looks at every comment, determines its viability and will report on its status whether it is considered or not.

6. **PART 150 STUDY UPDATE / PROGRESS**- no report

7. **EXECUTIVE COMMITTEE**

- A. Pam Thompson will attend ACPAA meetings as CACNR's representative. Chris Eubanks will serve as alternate.
- B. Retreat Priorities were discussed above as CACNR Orientation.

8. **REPRESENTATIVES' COMMENTS** –

- Don Sheehan (Centennial) discussed the Washington DC presentation of Air Traffic Noise and Lead by Representative Jason Crow.
- Wings Over the Rockies: WarBird Invasion April 27th 10-2; experience includes WWII aircraft and simulator.
- Announcement of Noisy Skies Podcast created by Carolyn McCulley featuring the works of CACNR to be released April 4th, 2024. This is her 5th Podcast in the Noisy Skies series.

9. **OTHER REPORTS:**

A. AIRPORT DIRECTOR – KAPA Staff

See Airport Operations Overview above.

Introduction of Zack Gabehart – new noise specialist for Centennial Airport.

10. **OLD BUSINESS:**

A. 2023 – 2024 CACNR Attendance Record

Arapahoe County has 2 vacancies. Attendance Records were discussed as we will seek out interested parties from jurisdictions which are not currently being represented by means of attendance of CACNR meetings.

11. **NEW BUSINESS**

A. UC Davis Aviation Noise and Emission Symposium report by Chris Eubanks

- Electric Aircraft
- DNL Levels and Calculations
- Single Event Measurements
- “Perfect Altitude” to Lessen Contrails
- Study of Health Issues Caused by Noise and Vibration

12. **PUBLIC COMMENT**

Public comment was received via email, in person and virtual from Greenwood Village, Louviers Gate, Greenwood Village, Louviers, and University of VA.

Concerns were expressed about the lack of substantial progress regarding noise mitigation even though complaints have increased by 25%. Most complaints are touch and go traffic over the communities. Quiet Skies of Arapahoe County recommended a re-evaluation of CACNR’s strategies.

Also noted that some training flights/controllers are extending down lower in the Louviers area.

Questions were asked: Do you think that assigning one or two ombudsmen from the FAA could improve the effectiveness of addressing noise complaints? Answer: Not sure. FAA assigned Ombudsmen are not available here locally at Centennial but perhaps at each region - the Pacific NW - which is in Seattle Washington. What would the cost be to return to the old flight pattern? Answered: No cost has occurred, and the FAA depicts the flight patterns. The staggering of the approaches has had a positive effect as noted in last month’s quarterly Study Group Report.

Additional questions and answers will be addressed via an email exchange.

13. **NEXT MEETINGS:**

A. CACNR – May 1, 2024 6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112

B. ACPAA – May 9, 2024 3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112

C. PART 150 MEETING DATES - To be determined.

13. **ADJOURNMENT:** The meeting was adjourned at 7:56 p.m.

Pam Thompson, scribe



Centennial Airport Monthly Noise Report



March 2024

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A-weighted Sound Level – A measure of sound level with weighted frequency characteristics that correspond to human subjective response to noise.

Arrival – The act of an aircraft approaching and landing at an airport.

Ambient Noise Level – The level of noise that is all-encompassing within a given environment for which a single source cannot be determined. It is usually a composite of sounds from many and varied sources near to and far from the noise monitor.

Community Noise Event Level (CNEL) – The average sound level over a 24-hour period, with a penalty of 10dB for nighttime hours between 10:00 PM and 7:00 AM.

Day Night Average Sound Level (DNL) – A measure of the average noise level over a 24-hour day. It is the 24-hour, logarithmic (or energy) average, A-weighted sound pressure level with a 10-decibel penalty applied to the nighttime event levels that occur between 10:00 PM and 7:00 AM.

Decibel (dB) – A logarithmic quantity reflecting the ratio of the sound pressure of the source to a reference pressure. This results in a sound pressure level of about 0 dB for the quietest sounds that we can detect and sound pressure levels of about 120 dB for the loudest sounds that can be heard without pain.

Departure – The act of an aircraft taking flight and leaving the airport.

Energy-Averaged Sound Pressure Level (Leq) – The value or level of a steady, non-fluctuating sound that represents the same sound energy as the actual time-varying sound evaluated over the same time period.

Flight Track – The path along the ground followed by an aircraft in flight.

Instrument Flight Rules (IFR) Rules and regulations established by the FAA to govern flight under conditions in which flight by outside visual reference is not safe. IFR flight depends upon flying by reference to instruments, and navigation is accomplished by reference to electronic signals. It is also a term used by pilots and controllers to indicate the type of flight plan an aircraft is flying, such as an IFR or VFR flight plan.

Local Operations – Operations in the local traffic pattern or within sight of the airport; flight in local practice areas within a 20 mile radius; execute simulated instrument approaches or low airport passes.

Maximum Noise Level (L_{max}) – The peak noise level for a single noise event.

Noise Exposure – The cumulative sound energy affecting a person over a specified period of time.

Overflight – Aircraft flight originating and terminating outside the area that transits the airspace without landing.

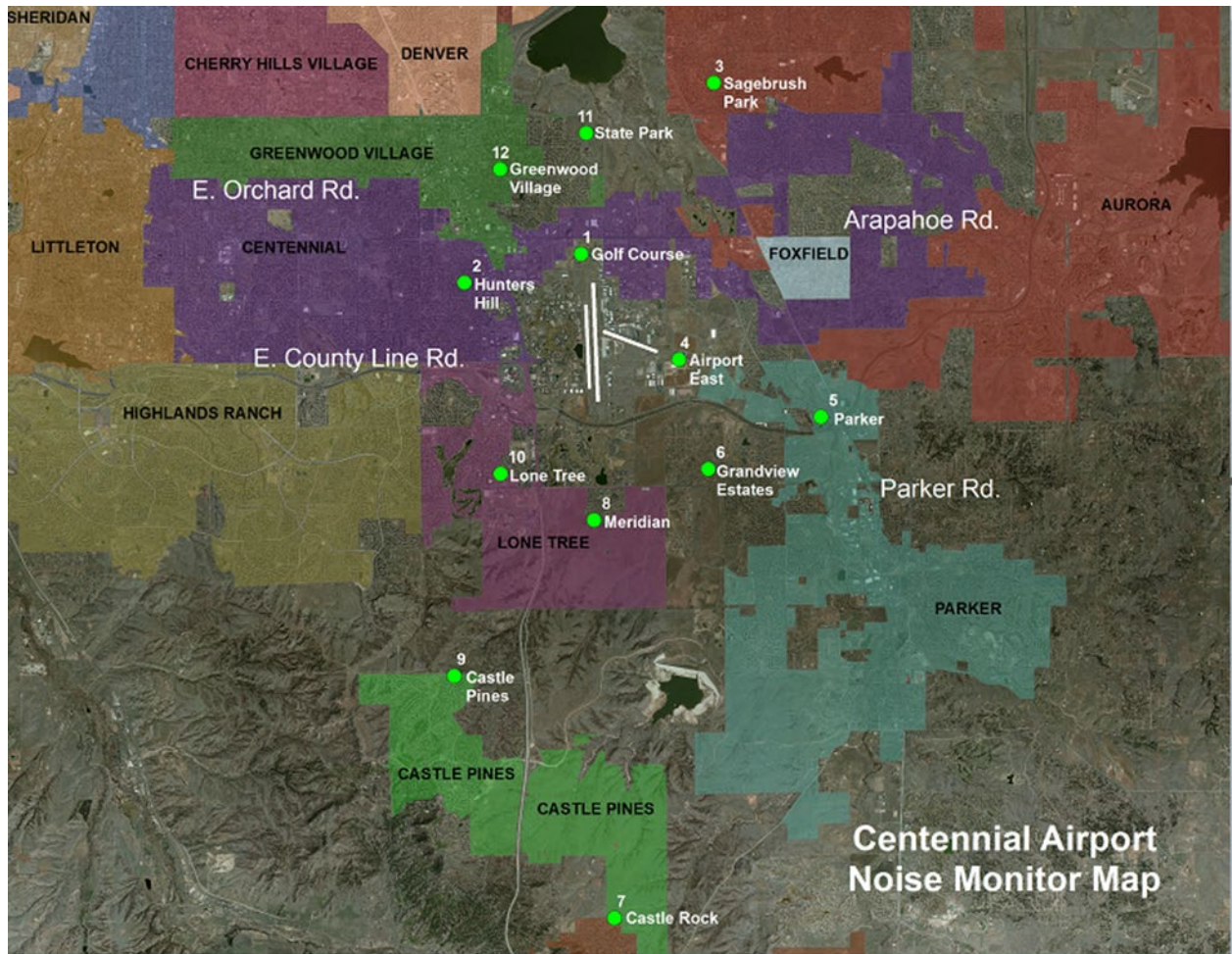
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

Sound Exposure Level (SEL) – The total energy in the A-weighted sound level measured during a transient noise event. SEL accounts for both the duration and the loudness of a noise event.

Overview

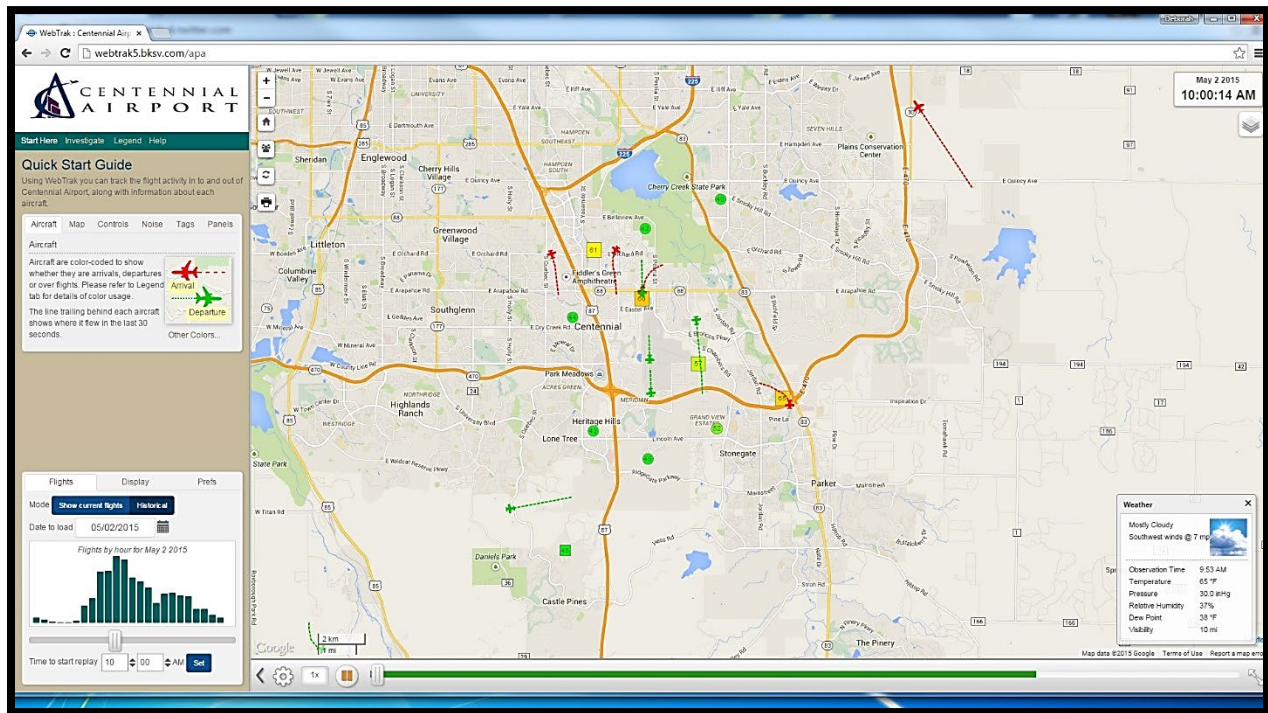
3 ABOUT APA'S NOISE MONITORING PROGRAM

Centennial Airport's (KAPA) Noise and Operations Monitoring System (ANOMS) is a new state of the art system that enables the Arapahoe County Public Airport Authority to monitor and better understand aircraft noise in the vicinity of Centennial Airport. This system is comprised of 12 fixed noise monitoring terminals in the community, as well as 2 portable monitors that are available for short term monitoring anywhere in the community.



4 ABOUT WEBTRAK™

As part of an ongoing program, Centennial Airport now offers an online tracking system for the movement of flights and air traffic patterns within the Denver Metro area. **WebTrak** Flight Tracking and Noise Information System allows concerned individuals to research data about flights to and from Centennial Airport, Denver International Airport, Rocky Mountain Metropolitan Airport, Front Range Airport and Buckley Air Force Base, as well as any transitional air traffic through the region.



How to participate

The general public may use **WebTrak** to investigate a noise or flight that occurred near their location. The system also simplifies the process of filing a noise complaint, offering an easy, online option for residents to register concerns regarding noise levels at the following web addresses:

APA WebTrak:

https://webtrak.emsbk.com/apa?fbclid=IwAR1xnXwQ2sVwisSZ_szUAIHFtyYBNI_ZTACOI1PF7ZSH8PPbBxORnnaidUUE

Centennial Airport Website: <http://www.centennialairport.com>

In addition, noise complaints can also be submitted on our noise hotline:

APA Noise Hotline:

303-790-4709

5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR ITINERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL ITINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,483	2,640	172	5,295	1,607	5,408	132	7,147	13,881	2	13,883
February	2,374	2,702	161	5,237	1,709	5,384	83	7,176	13,797	2	13,799
March	2,527	2,771	133	5,431	1,947	6,487	89	8,523	16,676	13	16,689
April				0				0			0
May				0				0			0
June				0				0			0
July				0				0			0
August				0				0			0
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	7,384	8,113	466	15,963	5,263	17,279	304	22,846	44,354	17	44,371

	IFR OVERFLIGHTS				VFR OVERFLIGHTS				TOTAL OPERATIONS	
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL		
January	3	4	4	11	35	61	12	108	January	26,444
February	4	8	1	13	21	36	5	62	February	26,287
March	0	10	1	11	31	31	6	68	March	30,722
April				0				0	April	
May				0				0	May	
June				0				0	June	
July				0				0	July	
August				0				0	August	
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	7	22	6	35	87	128	23	238	Y-T-D Totals	83,453

Definitions

Air Taxi – A company that operates aircraft that carry cargo or mail, or passengers on an on demand or charter basis.

General Aviation (G.A.) – All civil aviation operations other than scheduled air services and non-scheduled air transport operations for remuneration or hire.

Local – Operations are performed by aircraft which operate in the local traffic pattern or within sight of the airport; flight in local practice areas located within a 20-mile radius of the airport; execute simulated instrument approaches or low passes at the airport.

IFR Itinerant – Operations other than local operations conducted under Instrument Flight Rules.

VFR Itinerant – Operations other than local operations conducted under Visual Flight Rules.

Overflight – Operation performed by aircraft that transit the area and did not originate or did not terminate within the airspace.

6 NOISE MONITOR REPORTS

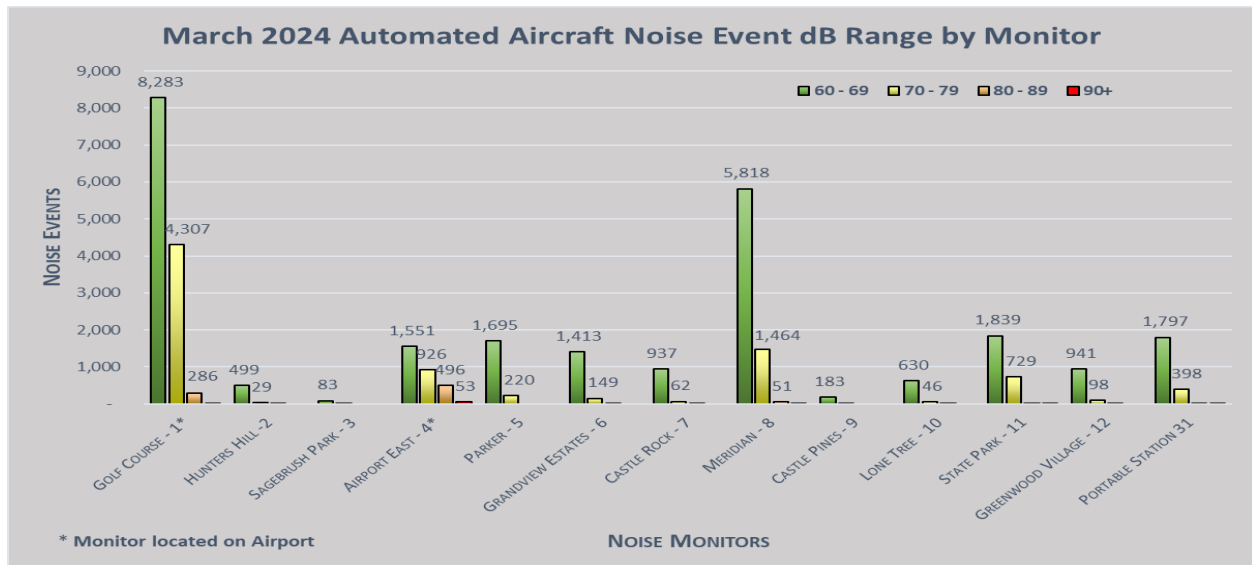
The following data displays the amount and associated decibel level of aircraft noise events at a given monitor. An aircraft noise event must contain the following characteristics:

First, the noise event must exceed the ambient noise level. This number varies at every monitor, but is generally greater than 50-55db. Secondly, the noise event must last longer than 5 seconds. Lastly, using radar data, the system must correlate an aircraft with the noise event. This ensures that the sound is not associated with a 'community noise event' such as a lawn mowers or emergency sirens.

The information below reflects only aircraft noise events as described above.

Automated Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	8,283	4,307	286	3	12,879
Hunters Hill- 2	499	29	2	0	530
Sagebrush Park- 3	83	6	0	0	89
Airport East- 4*	1,551	926	496	53	3,026
Parker- 5	1,695	220	0	0	1,915
Grandview Estates- 6	1,413	149	1	0	1,563
Castle Rock- 7	937	62	1	0	1,000
Meridian- 8	5,818	1,464	51	3	7,336
Castle Pines- 9	183	16	0	0	199
Lone Tree- 10	630	46	1	0	677
State Park- 11	1,839	729	15	2	2,585
Greenwood Village- 12	941	98	3	0	1,042
Portable Station 31	1,797	398	18	1	2,214
Totals	25,669	8,450	874	62	35,055

*Monitor located on Airport



* Monitor located on Airport

NOISE MONITORS

7 MARCH 2024 NOISE COMPLAINT STATISTICS

In March, Centennial Airport received 1,057 complaints from 71 households.

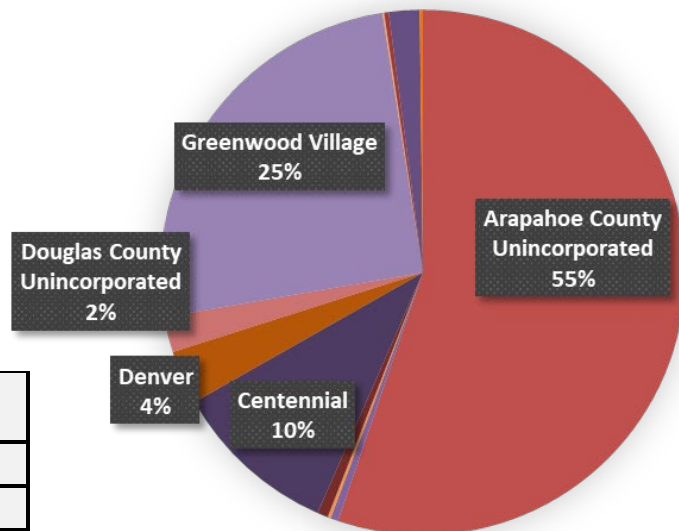
March Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	
Arapahoe County Unincorporated	584	27	1,266	32	98,066
Aurora	5	2	10	2	399,913
Castle Pines	2	2	4	3	14,000
Castle Rock	7	2	26	3	82,000
Centennial	108	5	180	5	108,422
Cherry Hills Village	0	0	0	0	6,442
Denver	35	1	82	1	715,522
Douglas County Unincorporated	23	5	101	7	276,493*
Greenwood Village	267	15	1,010	30	15,691
Highlands Ranch	1	1	3	3	103,444
Lone Tree	3	2	5	4	14,253
Parker	2	2	20	4	68,000
Other	20	7	60	15	UNK
Total	1,057	71	2,767	109	1,867,296

*Douglas County Unincorporated Population with Highlands Ranch Removed

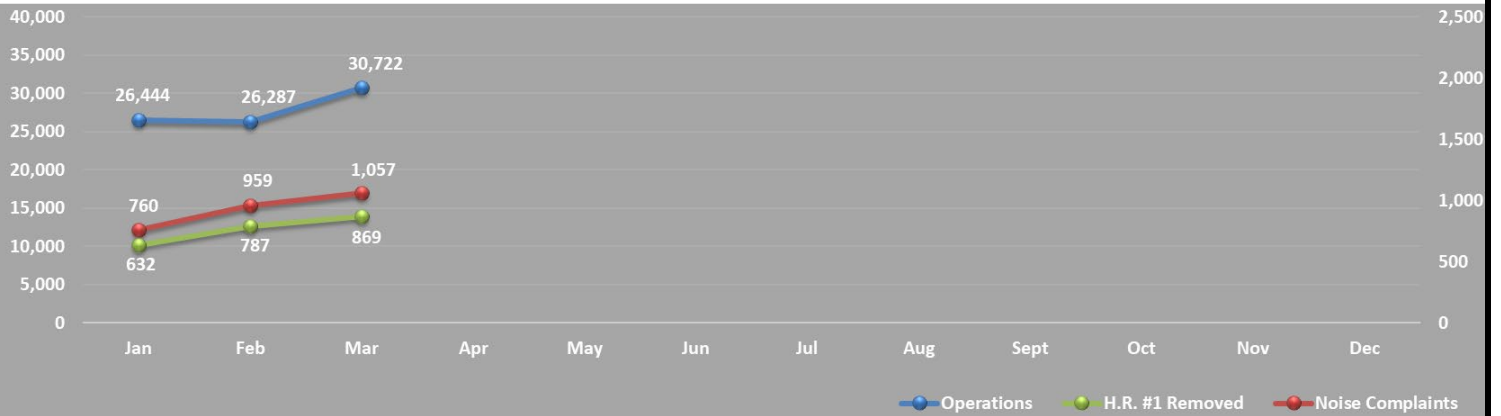
March 2024 Noise Complaint Responses Completed	
Email	33
Phone	2
Total	35

Time Complaint Received	Mar
Day Hours (7:00 am - 9:59pm)	941
Night Hours (10:00 pm - 6:59 am)	116
TOTAL	1,057

Complaints per Municipality



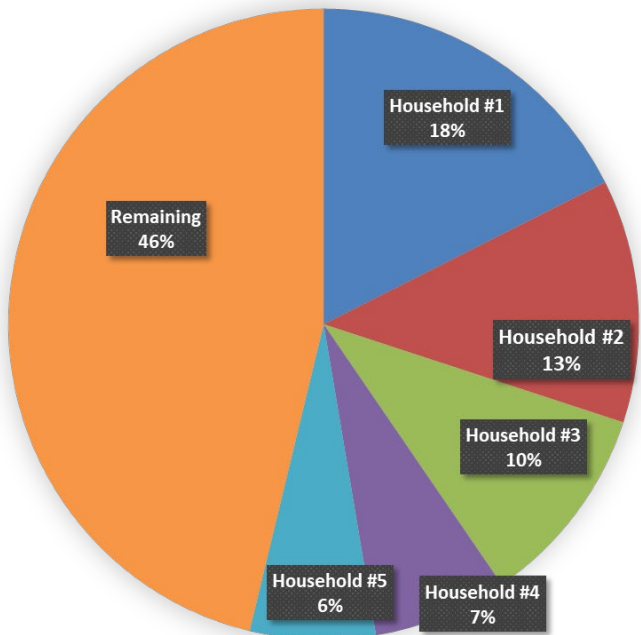
Current 12 Month Trend



Previous Year 13 Month Trend



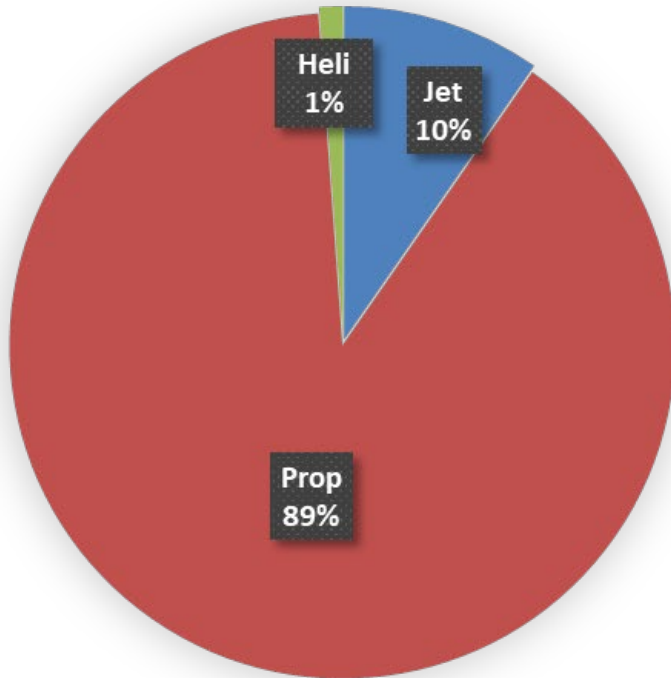
Top 5 Household Complaints YTD



Top 5 Household Complaints YTD

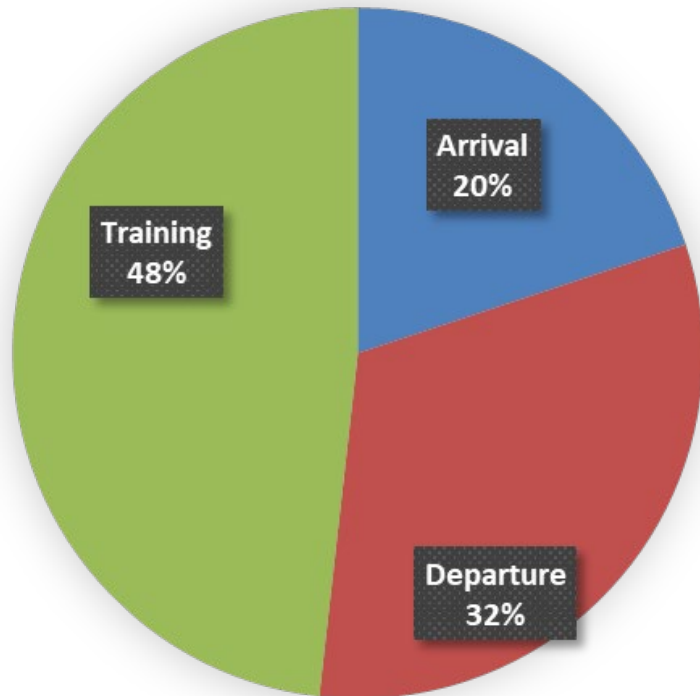
Household	Complaints	Resides In
Household #1	486	Arapahoe County
Household #2	345	Greenwood Village
Household #3	288	Greenwood Village
Household #4	191	Greenwood Village
Household #5	178	Arapahoe County
Remaining	1,279	
Total	2,767	

Complaints by Aircraft Type

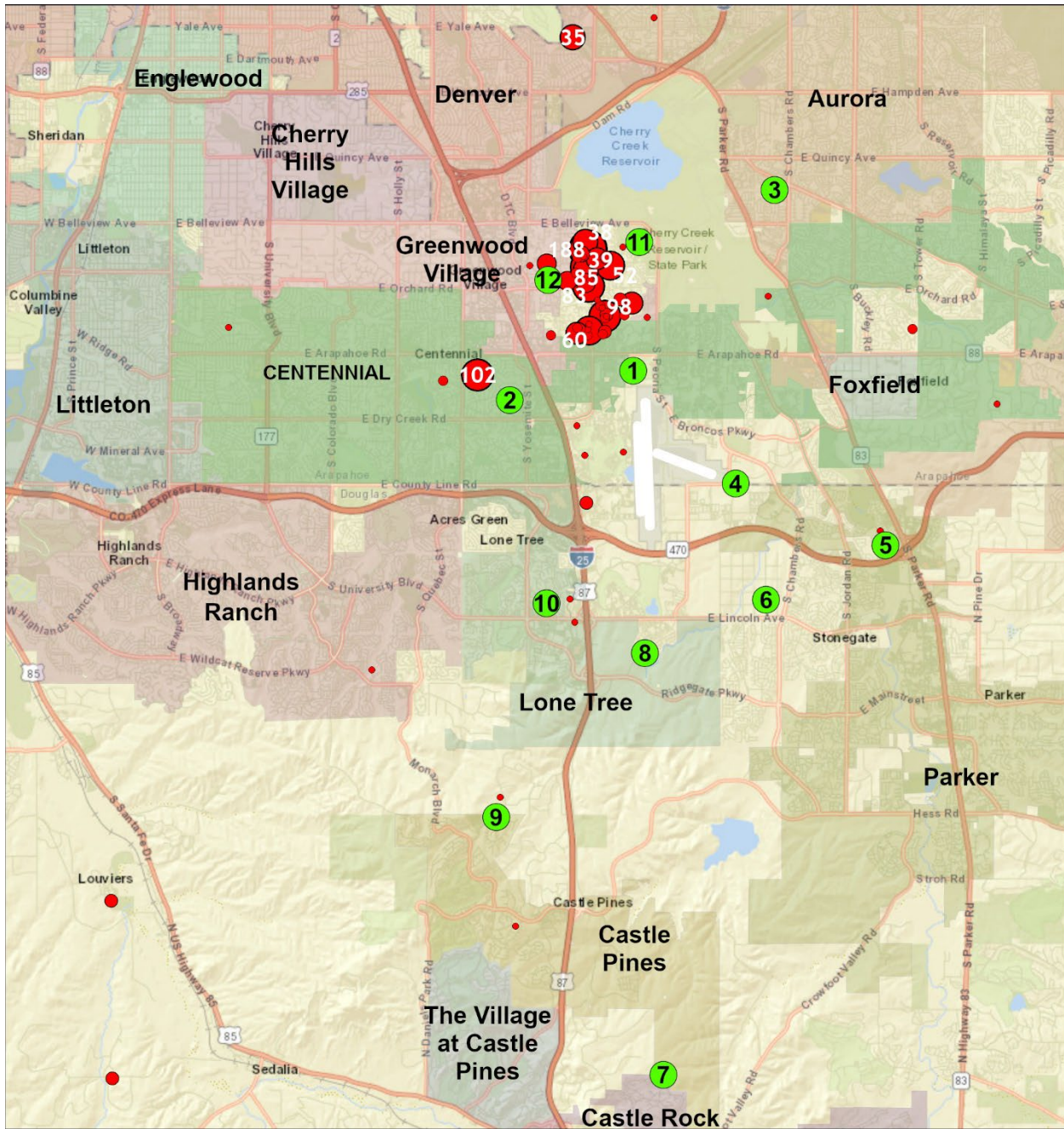


*#1
Household
Removed

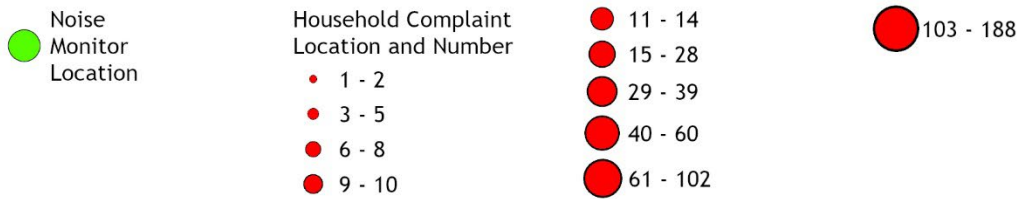
Complaints by Operation Type



8 CENTENNIAL AIRPORT COMPLAINT MAP



March 2024 Complaints

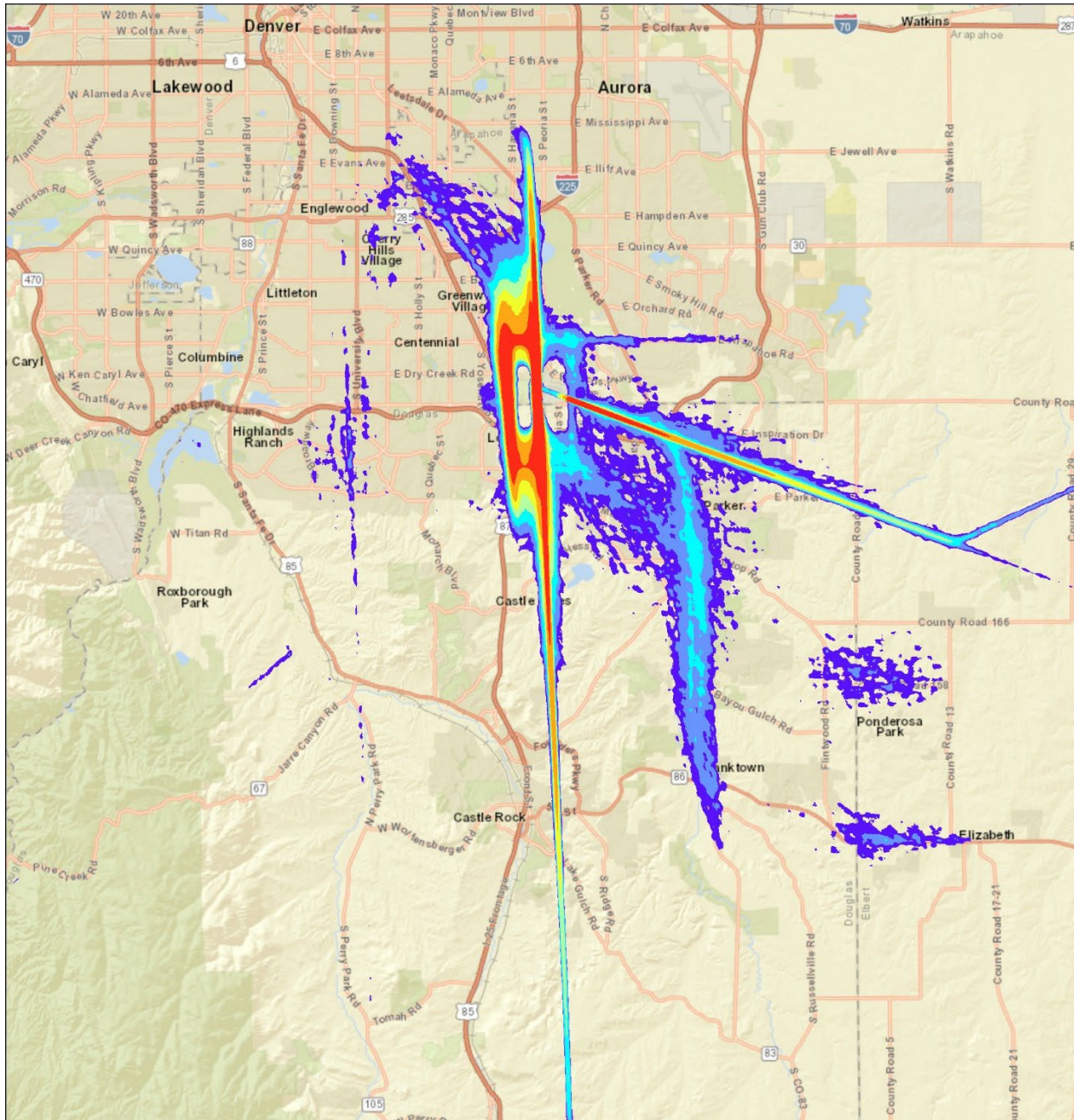


**Larger dots equate to more complaints for that particular households

9 CENTENNIAL AIRPORT RADAR TRACK DENSITY MAP

The following maps take all of the flight track data for the given time period and create a line density plot. This enables everyone to have a better understanding of where the flight tracks are at, while allowing for historical comparisons. Dark red in the middle of the picture shows the highest density of flight tracks over the runways. The colors gradually move out to blue as the least dense.

March 2024 Flight Tracks associated with Centennial Airport



Lower Density Traffic

Higher Density Traffic

10 NOTES AND DISCLAIMER

This report is for informational use only. Every effort has been made to ensure the accuracy of this data; however, the material may be altered as new information is added or updated in the system.

Centennial Airport disclaims any responsibility or liability for any direct or indirect damages resulting from the use of this data. We hope this information provides you with a valuable tool in which to review noise data and characteristics in your area. If you have questions or concerns, please contact the Centennial Airport Noise office at **303-790-0598**.



Noise Hotline: 303-790-4709

www.centennialairport.com



Fly Quiet Committee – May 2024 Monthly Report

[Florida's Naples Airport Starts Fly Quiet Program](#)

The **Naples Airport Authority (NAA)** launched a **Fly Safe Fly Quiet (FSFQ) program** this month at the Southwest Florida airport.

This initiative measures aircraft performance,

Recognizes the “most courteous” operators by recognizing the NAA's commitment to creating “quieter skies within the community.”

Operators will be assessed in three areas:

- Observance of voluntary curfew hours,
- Arrival Altitudes and Departure Procedures
- Noise output of their aircraft.

Bonus points are awarded for operators that **avoid operations during Naples Airport's (KAPF) quiet hours from 10 p.m. to 7 a.m.** by adjusting their schedule or staging at other airports during these hours.

Top operators will be **recognized each quarter** for efforts to reduce their community noise impact via **media announcements, social media posts, and promotions throughout the general aviation terminal/FBO.**

2022 Congratulations to the Winners of LAWA's Noise Recognition Programs

Los Angeles World Airports congratulates the following winners of the noise recognition programs at LAX and VNY for achieving a commendable level of success in complying with noise abatement procedures.

2022 Winners of LAX Fly Quieter Award

CATEGORY 1 WINNERS

100+ Operations Daily



American Airlines



United Airlines



Delta Air Lines

CATEGORY 2 WINNERS

5 to 99 Operations Daily

Volaris

Avianca

Spirit

CATEGORY 3 WINNERS

1 to 4 Operations Daily

Nippon Cargo

Copa Airlines

Fiji Airways

2022 Winners of VNY Friendly Flyer Award

FIRST TIME WINNERS

ACI Jet
Aero Air, LLC
FlyAlliance
flyExclusive
MGM Resorts International
Mira Vista Aviation
PAM JETS
Verijet, Inc.

REPEAT WINNERS

Chrysler Aviation, Inc.
Clay Lacy Aviation
Gama Aviation
Jet Edge International
Latitude 33 Aviation, LLC
Mountain Aviation

Pegasus Elite Aviation
Prime Jet, LLC
Sun Air Jets, LLC
Tutor-Saliba Corporation
Wonderful Citrus Aviation
XCEL Jet Management, Inc.

LAX VNY

For more information about these programs, scan the QR codes or visit the websites as provided below.



www.lawa.org/laxfq



www.lawa.org/vnyffp

Congratulations to the Winners of the LAX Fly Quieter Program 2022

CATEGORY 1 WINNERS

100+ Operations Daily



American Airlines



United Airlines



Delta Airlines

CATEGORY 2 WINNERS

5 to 99 Operations Daily



Volaris



Avianca



Spirit

CATEGORY 3 WINNERS

1 to 4 Operations Daily



Nippon Cargo



Copa Airlines



Fiji Airways

The LAX Fly Quieter Program recognizes efforts to reduce aircraft noise through voluntary operational and technical measures, as well as community engagement. Scan the QR code or visit www.lawa.org/laxfqp to learn more.

LAX

