



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

April 6, 2022

6:30 p.m. – 8:30 p.m.

**Members' Representatives and Alternate Representatives are requested to attend this meeting in person
Members of the public may attend the meeting in person, or virtually**

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

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CACNR APRIL 6, 2022

AGENDA

Chair: Brad Pierce **Vice Chair:** Paul Krier **Treasurer:** Andy Jones **Secretary:** Alison Biggs
CACNR Mission: Utilizing Partnerships to Reduce Airport Noise for the Benefit of Neighboring Communities

1. CALL TO ORDER AND DETERMINATION OF QUORUM:

<i>Arapahoe County:</i>	Carrie Warren-Gully/Vacant Paul Krier/Evan Colvin	<i>Highlands Ranch Metro Dist.</i>	Andy Jones/Renee Anderson
<i>Douglas County:</i>	Abe Laydon/Dan Avery Alison Biggs/Mark Adams	<i>Lone Tree:</i>	Mike Anderson/Chuck Darnell
<i>Aurora:</i>	Brad Pierce/Karen Hancock	<i>Parker:</i>	Amy Holland/Todd Hendreks
<i>Castle Pines:</i>	Chris Eubanks/Ben Price	<i>ACPAA:</i>	Michael Fronapfel/Vacant
<i>Castle Rock:</i>	Laura Cavey/Sandy Vossler	<i>AOPA:</i>	Robert Doubek/John Hirshman
<i>Centennial:</i>	Candace Moon/Don Sheehan	<i>CABA:</i>	Don Kuskie/Mike Straka
<i>Cherry Hills Village:</i>	Al Blum/Afshin Safavi	<i>CDOT Aeronautics Div:</i>	Todd Green/Vacant
<i>Foxfield:</i>	Pam Thompson/Frank Lawrence	<i>FAA APA Control Tower:</i>	Jeff Holmes/Ron Curry
<i>Greenwood Village:</i>	Donna Johnston/Libby Barnacle	<i>FAA District Office:</i>	John Bauer/John Sweeney
		<i>FAA TRACON:</i>	Steve Martin/Bill Dunn
		<i>Wings Over the Rockies:</i>	Bill Wasmund/Vacant

SPECIAL PRESENTATIONS: Mike Underriner, Chief Pilot, Flights-Inc.
Kristina Chipman, Chief Pilot, Aspen Flying Club

2. PUBLIC COMMENT: (non-Agenda items – 3 minutes per person time limit; correspondence from the public)

- A. MEETING ATTENDEES
- B. FROM CACNR EMAIL ADDRESS

3. CONSENT AGENDA: (items here may be moved to Agenda Item #4, on the request of any CACNR Representative)

- A. DRAFT MINUTES, March 2, 2022 – Alison Biggs, Secretary
- B. TREASURER'S REPORT, March 2022 – Andy Jones, Treasurer
- C. NOISE REPORT – February 2022 – Airport Staff

4. ITEMS REMOVED FROM CONSENT AGENDA:

5. COMMITTEE REPORTS:

- A. EXECUTIVE/WORK PLAN COMMITTEE – Brad Pierce, Chair
 - 1. Flight School Engagement Summary Report
 - 2. Recommendations from Flight School Engagement Summary Report
- B. COMMUNITY OUTREACH – Mike Anderson
- C. FLY QUIET – Bill Wasmund, Chair
- D. NOISE MONITORS – Candace Moon, Chair
- E. WORK PROGRAM – Alison Biggs, Chair

6. FAA REPORT:

- A. CENTENNIAL AIRPORT AIR TRAFFIC CONTROL TOWER – Jeff Holmes/Ron Curry

7. OTHER REGULAR REPORTS:

- A. ACPAA – Robert Doubek, ACPAA Treasurer; Candace Moon/CACNR Report to March 2022 ACPAA Meeting

- B. AIRPORT DIRECTOR'S REPORT – Mike Fronapfel
 - 1. Airport Activity
 - 2. Legislative
 - 3. Other
- C. 1st QUARTER LAND USE REVIEW

8. **OLD BUSINESS:**

- A. CONGRESSIONAL QUIET SKIES CAUCUS
- B. FOLLOW-UP ITEMS FROM PRIOR CACNR MEETINGS
- C. WHO TO REPRESENT CACNR AT 2022 ACPAA MEETINGS?
- D. N.O.I.S.E. MEETING AT NLC CONFERENCE March 14-16 in Wash DC

9. **NEW BUSINESS:**

- A. INFORMATION SHARING
- B. NEXTGEN ADVISORY COMMITTEE (NAC) MEETING AGENDA, March 28, 2022 – Brad Pierce

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

11. **NEXT MEETINGS:**

- | | | |
|------------|----------------|---|
| A. CACNR – | May 4, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| | June 1, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| | July 6, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| B. ACPAA – | April 14, 2022 | 3:00 p.m. hybrid in-person/virtual meeting Donna Johnston for CACNR |
| | May 12, 2022 | 3:00 p.m. hybrid in-person/virtual meeting |
| | June 16, 2022 | 3:00 p.m. |
| | July 2022 | NOT MEETING |

12. **ADJOURN**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE MINUTES

March 2, 2022

DRAFT

VISION – QUIETER SKIES FOR OUR COMMUNITIES

MISSION – UTILIZING PARTNERSHIPS TO REDUCE AIRPORT NOISE FOR THE BENEFIT OF NEIGHBORING COMMUNITIES

Chair: Brad Pierce **Vice Chair:** Melissa Coudeyras **Treasurer:** Andy Jones **Secretary:** Alison Biggs

1. **CALL TO ORDER, ROLL CALL, and QUORUM:** The meeting was called to order at 6:35 p.m. by Chair Brad Pierce. The following were in attendance and a quorum was present:

Arapahoe County:	Carrie Warren-Gully	Greenwood Village:	Donna Johnston
Arapahoe County:	Paul Krier	Highlands Ranch Metro:	Andy Jones
Douglas County:	Dan Avery	Lone Tree:	Chuck Darnell
Douglas County:	Alison Biggs	ACPAA:	Mike Fronapfel
Aurora:	Brad Pierce	AOPA:	Bob Doubek
Castle Pines:	Chris Eubanks	CABA:	Don Kuskie
Castle Rock:	Sandy Vossler	Wings Over the Rockies:	Bill Wasmund
Centennial:	Candace Moon		

Others in attendance were Aurora Alternate Representative Karen Hancock; AOPA Alternate Representative John Hirshman; and ACPAA staff Samantha Blymyer, and Lauren Wiarda.

Those absent were:

Cherry Hills Village:	Al Blum/Afshin Safavi	FAA APA Control Tower:	Jeff Holmes/Ron Curry
Foxfield:	Pam Thompson/Frank Lawrence	FAA District Office:	John Bauer/John Sweeney
Parker:	Amy Holland/Todd Hendreks	FAA TRACON:	Steve Martin/Bill Dunn
CDOT Aeronautics Div:	Todd Green/Vacant		

2. **PUBLIC COMMENT:**

A. **VIRTUAL/IN-PERSON MEETING ATTENDEES** – Randy Johnson of Louviers indicated that it seemed the Aspen Flying Club (AFC) had been the worst offender over his neighborhood. He had spoken with the Rocky Mountain Metropolitan Airport Community Noise Roundtable, which also had received similar concerns. He was trying to contact Kristin Chipman from AFC.

Kimberly Hellweg from the Elizabeth area southeast of Ponderosa Park and east of Castlewood Canyon, indicated she appreciated hearing from the flight school at the last meeting, and hoped other schools would attend in the future. In her area, concentrated flights by aircraft from Flights, Inc. seemed to be more prevalent than AFC. Flights sometimes were coming over one after another, nonstop, for at least an hour at a time. She would like to have flights more spread out, and more coordination among the schools.

Mike Fronapfel indicated he would ask Flights, Inc. to come to the next CACNR meeting; this was appreciated by CACNR.

Andrea Suhaka from Walnut Hills noted the flight schools had seemed to practice extensively in the Ridge Road/Prince Street area, but that no longer seemed to be the case. She wanted to extend a thanks, as it made her walks much more pleasant.

Donna Johnston indicated she had heard from Jim Slaggert, Orchard Hills in Greenwood Village, who had indicated noise was still significant in his area.

B. **FROM CACNR EMAIL ADDRESS** – None.

3. **CONSENT AGENDA: A. & B. – DRAFT MINUTES AND TREASURER'S REPORT** - The Consent Agenda included the February 2, 2022 draft CACNR minutes; and a Treasurer's Report from the end of February which showed a balance of \$27,015.75. The Consent Agenda also included the January 2022 Noise Report. On the motion of Donna Johnston, duly seconded, the Consent Agenda was approved.

C. **NOISE REPORT** – The January 2022 Noise Report included the following information:

Total Local Operations: 9,268 December 2021 10,009 November 2021 10,954
Total Operations: 22,048

Noise Events: January – 23,191

<u>January Totals:</u>	<u>January 60 – 69 db:</u>	<u>January 70 – 79 db:</u>	<u>January 80 – 89 db:</u>
7,120 Golf Course	4,642 Golf Course	2,274 Golf Course	449 Airport East
5,635 Meridian	4,492 Meridian	1,105 Meridian	191 Golf Course
2,522 State Park	1,876 State Park	765 Airport East	37 Meridian
2,418 Airport East	1,509 Parker	628 State Park	18 State Park
1,709 Parker	1,154 Airport East	195 Parker	5 Parker
1,104 Grandview Estates	975 Grandview Estates	125 Grandview Estates	4 Hunters Hill
765 Castle Rock	730 Castle Rock	91 Greenwood Village	3 Grandview Estates
746 Greenwood Village	652 Greenwood Village	35 Lone Tree	3 Greenwood Village
575 Lone Tree	540 Lone Tree	34 Castle Rock	1 Castle Rock
345 Hunters Hill	317 Hunters Hill	24 Hunters Hill	- Castle Pines
137 Sagebrush Park	130 Sagebrush Park	9 Castle Pines	- Lone Tree
115 Castle Pines	106 Castle Pines	7 Sagebrush Park	- Sagebrush Park

January noise events in the 90+ decibel range were:

Airport East – 50 Golf Course – 13 Grandview Estates – 1 Meridian – 1

January Noise Complaints(323) and Numbers of Households (22)

January Complaints:

120 Greenwood Village (37%)
61 Centennial (19%)
46 Unincorporated Arapahoe County (14%)
36 Other (11%)
31 Castle Rock (10%)
15 Aurora (7%)
10 Unincorporated Douglas County (3%)
2 Lone Tree (0.6%)
1 Highlands Ranch (0.3%)
1 Parker (0.3%)

January Households:

6 Unincorporated Arapahoe County
3 Greenwood Village
3 Other
2 Castle Rock
2 Centennial
2 Unincorporated Douglas County
1 Aurora
1 Highlands Ranch
1 Lone Tree
1 Parker

Year to date, the **top five complaining households** were in:

Greenwood Village – 112 (35%) Unincorporate Arapahoe County – 32 (10%)
Centennial – 51 (16%) Castle Rock – 30 (9%)
Other – (34 (11%)

In January, 30 responses were requested from 323 noise complaints, with 23 of those requests made by email (77%), and 7 made by telephone (23%).

Of the 323 complaints in January 2022, 312 were about flights during day hours (97%); 11 were about night flights (3%).

In January, props accounted for 83% of the complaints by aircraft type in December, while jets accounted for 15% of the complaints, and 2% were about helicopters.

In January, departures were responsible for 40% of the complaints. Arrivals were responsible for 35% of the complaints, and Training was responsible for 25% of the complaints.

The Year to Date complaint maps were not provided with this report, and a Radar Track Density Map was also not available.

4. **ITEMS REMOVED FROM CONSENT AGENDA:** None

5. **COMMITTEE REPORTS:**

A. **EXECUTIVE /WORK PLAN COMMITTEES –**

1. Flight Schools Meeting Follow-Up. The plan is to have the summary report and follow-up plan of action from the meeting with the flight schools available at the April CACNR meeting. Having Flights, Inc. attend that meeting would also be part of the follow-up and the earlier discussion here.

2. Only one Member had yet to submit funding for 2022.

B. **COMMUNITY OUTREACH** – Chuck Darnell reported for Mike Anderson and indicated the committee had not met. There would be further discussion of what type of technical assistance would be useful in relation to the website, the use of social media for keeping the community informed and the Committee's other priorities in the Work Program.

C. **FLY QUIET** – Bill Wasmund had submitted a written report, included in the meeting materials packet. He commented on air traffic control at Centennial denying touch and go practice when its pattern is full, resulting in the need for flight students to go elsewhere. The extra flight time has made such practice expensive for some students. Some exploration of helping students with this extra cost had been done, and it was determined that was not in the scope of either CACNR or this Committee. Question was asked if tenants at the airport get any preferential treatment from the airport. Response was no, activity is handled on a first come, first serve basis. Question was asked if flight schools from other airports ever come here. Response

was hardly ever. Further discussion indicated the number of planes in the pattern are largely determined by the comfort of the air traffic controllers and conditions such as weather, with perhaps a graphic related to this topic to be provided to CACNR in the future. Although touch and go practice is again allowed at Centennial, it is not unusual to have pattern work turned down by the tower.

Wasmund reiterated he would be seeking information from others attending the UC Davis Noise and Emissions Symposium about both general and specific incentive programs that have or have not worked elsewhere. He will also explore what knowledge other airports obtain from their noise-related systems, and how it is used.

D. **NOISE MONITORS** – Candace Moon reported efforts continue to work with airport staff to examine data CACNR receives from the noise monitors and explore improvements to meet current needs. She noted the portable noise monitor in the Highlands Ranch area was not functioning properly, and staff was working to get it operational again.

E. **WORK PLAN** – The Committee had not met, but Representatives and Committees were encouraged to look closely at the Work Program for not only those items which are being worked on now or which have been completed, but to think about what would be important to deal with in the future. The Program will be officially updated in early 2023, so it is not too early to begin thinking about what might be included at that time.

6. **FAA REPORTS:**

A. **CENTENNIAL (APA) AIR TRAFFIC CONTROL TOWER** – None. A request was made for someone such as Ron Curry to come to a future CACNR meeting, to provide more specific information about how traffic patterns are managed at Centennial Airport.

7. **OTHER REGULAR MONTHLY REPORTS:**

A. **ACPAA** – Bob Doubek presented his report from the February ACPAA meeting which had been provided on site. The report Brad Pierce had submitted to that meeting for CACNR was included with the emailed meeting documents.

B. **AIRPORT DIRECTOR'S REPORT** –

1. Airport Activity - Mike Fronapfel reported a 37% increase in fuel sales from last year. There will be 6 new hangers coming, with an anticipated 20 additional hangers from Sky Harbor. The development of newer and quieter planes continues to be anticipated. The airport still anticipates getting a grant for repairs to the runway and the run-up area. Question was asked if anything would be done to alert the public to when that work would, due to the probable change in flight patterns and related noise; CACNR Reps could then share that through their various avenues of communication. This could be done.

2. Legislative - The laser problem will hopefully be addressed through the State legislature with a bill that increases the punishment for endangering aircraft and flight crews. This is being sponsored by the Colorado Aviation Business Association (CABA) and the Colorado Airport Operators Association (CAOA); it has considerable support, but has not been passed yet. Another bill being proposed at the state level and supported by CABA and CAOAs would extend sales and use tax exemptions to On Demand Air Carriers Charters, Fractionals, etc.. similar to what the airlines currently have.

3. Other – Many non-towered airports are dealing with an issue of clearances not being verified, resulting in accidents. CAOAs has signed a letter asking for the FAA to look into this safety concern related to how aircraft clearances are handled at these non-towered airports. Basically, once FAA Center clears an aircraft's flight plan, pilots have taxied to and departed off the runway without permission or notification of the local airport and air traffic, resulting in several incidents and near accidents.

Airport staff had done a presentation to the Aurora Chamber of Commerce Transportation Committee, providing an overview of airport activity, noise issues, the need for careful attention to potential development in areas around the airport from the standpoint of safety and noise, and the positive economic impact of the airport on the surrounding communities.

Question was asked if there was anything new about the 5G rollout. Apparently, no airports in Colorado were among those which would be impacted by this change.

Request was made for the return of the radar density maps which had previously been provided. The maps showing locations of monthly and year to date noise complaints were also requested again. There have apparently been changes in the software and how ANOOMS communicates with GIS, and the staff is working to resolve the resulting problems.

It was reported the city of Centennial had approved a Live/Work residential development of 60 units in the approach to runway 17R/35L. This type of development consists of a commercial use on the first floor and residential uses on the 2nd and 3rd floors; Centennial permits this type of development on commercially zoned property. Both Centennial Airport and the FAA had written letters in opposition of the development, and staff had attended the Planning and Zoning Commission meeting and the City Council meeting when this development had been approved. Centennial Airport had even looked into being able to purchase the property, but it is under contract with the developer and that contract cannot be interfered with. Safety is a major worry, along with obvious noise concerns at that location.

8. **OLD BUSINESS:**

A. **CONGRESSIONAL QUIET SKIES CAUCUS** – Brad Pierce was close to being ready to address this topic with Jason Crow's staff.

B. **FOLLOW-UP ITEMS FROM PRIOR CACNR MEETINGS** – The changed format for this list was noted, and all were asked to make use of it.

C. **WHO TO REPRESENT CACNR AT 2022 ACPAA MEETINGS** – Candace Moon would represent CACNR at the March ACPAA meeting, Donna Johnston volunteered to represent CACNR in April. The rest of the months still need volunteer representation.

D. **POSSIBLE N.O.I.S.E. MEETING AT NLC CONFERENCE** – Emily Tranter of N.O.I.S.E. was attempting to get NLC to allow a NOISE meeting to be held separately but in conjunction with the NLC meeting on March 14-16 in Washington, DC.

9. **NEW BUSINESS:**

A. **INFORMATION SHARING** - Following discussion and consultation with airport staff, it was agree to have all future CACNR meeting open to in-person attendance by both CACNR Representatives and Alternates, and members of the general public, barring any change in pandemic statistics.

B. **ELECTION OF CACNR OFFICERS** – The floor was opened for nominations for any of the CACNR offices. Bylaws had been provided for reference. There were none. Carrie Warren-Gully moved to reelect the current officers. The motion was duly seconded and carried. The current officers were thanked for being willing to assume the jobs again..

10. **PUBLIC COMMENT:** None

11. **NEXT MEETINGS:**

A. CACNR – April 6, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
May 4, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
June 1, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
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B. ACPAA – April 14, 2022	3:00 p.m. hybrid in-person/virtual meeting
May 12, 2022	3:00 p.m. hybrid in-person/virtual meeting
June 16, 2022	3:00 p.m.
July 2022	NOT MEETING

12. **ADJOURNMENT:** The meeting was adjourned at 7:45 p.m.

Alison Biggs, Secretary

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE				2022 BUDGET - Approved October 6, 2021	
				updated to reflect carryover from 2021	
		CACNR 2022 BUDGET	ACTUAL TO DATE	NOTES	
INCOME:			as of mm/dd/yy		
CARRY OVER FROM 2021		\$ 4,765.75	\$ 4,765.75	carry over from 2021	
ACPAA		\$ 10,000.00	\$ 10,000.00		
CACNR REGULAR MEMBERS		\$ 13,250.00	\$ 12,250.00		
TOTAL INCOME:		\$ 28,015.75	\$ 27,015.75		
EXPENDITURES:					
WORK PROGRAM:					
COMMUNITY OUTREACH		\$ 2,000.00	\$ -	Website maintenance and various projects tbd	
FLY QUIET		\$ 1,000.00	\$ -	Various Projects tbd	
NOISE MONITOR		\$ 1,000.00	\$ -	Various Projects tbd	
WORK PLAN		\$ 500.00	\$ -	Orientation manual, annual report, other projects tbd	
EDUCATION					
2 Reps to UC Davis Symposium		\$ 5,000.00	\$ 1,100.00	Symposium to be at UC Davis; estimate based on prior on-site symposiums	
2 Reps to 2 N.O.I.S.E. Conferences		\$ 4,000.00	\$ -	Based on prior years' on-site conferences	
			\$ -		
CONSULTATION/ TASK SUPPORT		\$ 2,000.00	\$ 525.00	Projects with Jason Schwartz	
MEMBERSHIP DUES		\$ 1,000.00	\$ -	N.O.I.S.E.	
ADMINISTRATIVE		\$ 1,000.00	\$ -	Part time secretarial assistance	
		\$ 1,000.00	\$ -	Legal	
RESERVE		\$ 9,515.75	\$ -	for presently unidentified and unanticipated expenses and/or additional CACNR activities consistent with the approved Work Plan.	
TOTAL EXPENDITURES:		\$ 28,015.75	\$ 1,625.00		
CURRENT BALANCE			\$ 25,390.75		
CARRY OVER TO 2023		\$ -		Actual to be determned at the end of 2022	
** Usually includes registration, travel, ground transportation, lodging, meals.					
FRAME OF REFERENCE: MOU Funding Structure adopted 12/13/2018 calls for initial funding to generate \$22,250, with \$10,000 from ACPAA and \$12,250 to come from CANR's Regular Members. "This funding would be in place for the next two years, subject to annual appropriations. Thereafter, CACNR will provide ACPAA and each Regular Member with a report on the previous year's expenditures, and an annual invoice accompanied by a proposed budget indicating how the requested funds would be utilized, so that funds could be appropriated for the coming year."					
PLEASE NOTE FUNDING FROM ACPAA AND REGULAR MEMBERS WAS NOT REQUESTED FOR 2020 and 2021 DUE TO THE ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC. IT IS ANTICIPATED THE SECOND YEAR OF THE FUNDING STRUCTURE OUTLINED ABOVE WILL BE RESUMED FOR 2022					



Centennial Airport Monthly Noise Report



February 2022

Item 12

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1 Definitions

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.

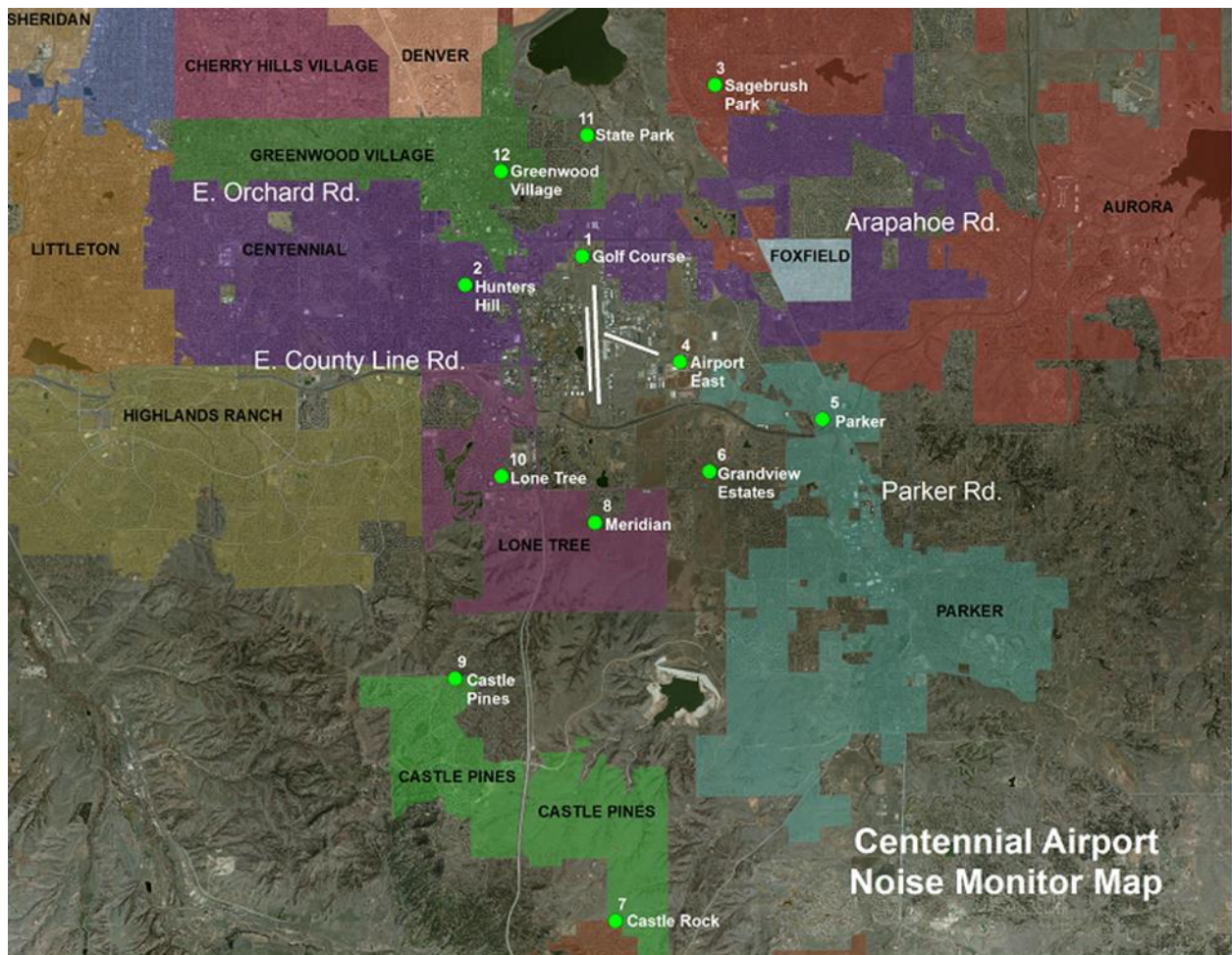
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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

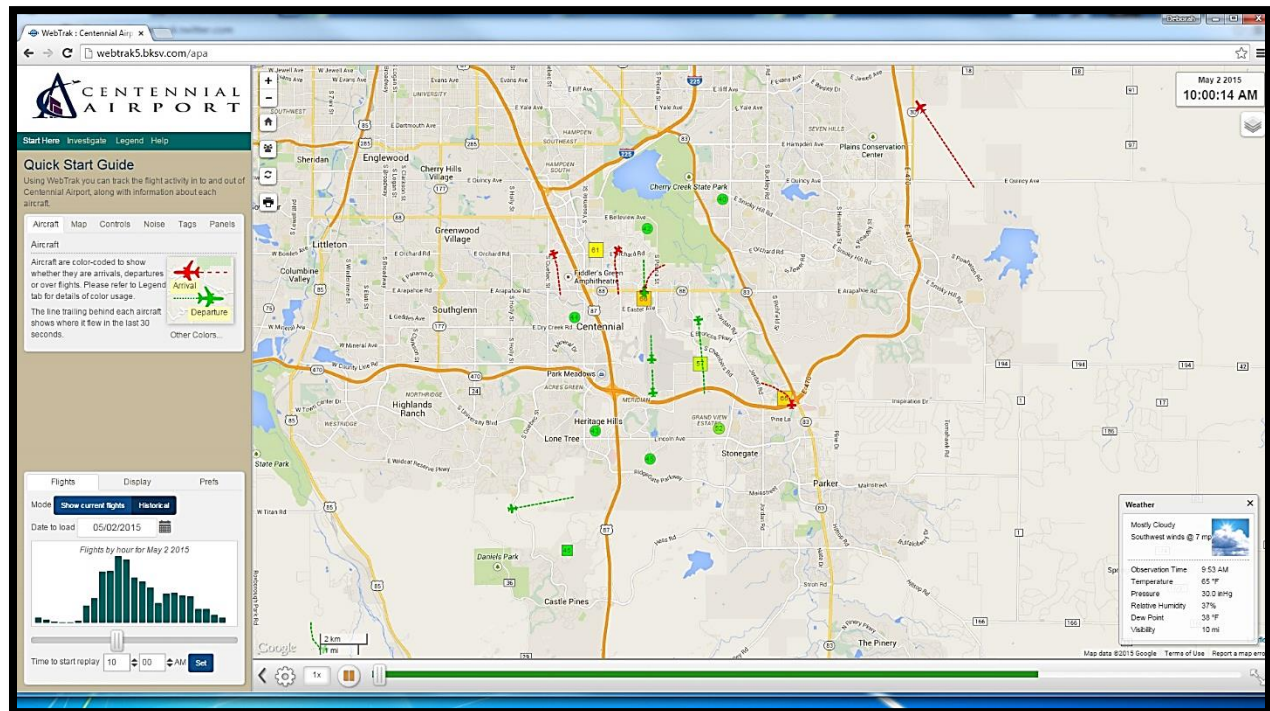
3 ABOUT APA'S NOISE MONITORING PROGRAM

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://viewpoint.emsbk.com/apa8>

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 ININERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,494	3,405	114	6,013	1,133	5,391	88	6,612	9,190	78	9,268
February	2,396	3,396	98	5,890	1,247	5,624	105	6,976	9,863	38	9,901
March				0				0			0
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	4,890	6,801	212	11,903	2,380	11,015	193	13,588	19,053	116	19,169

	IFR OVERFLIGHTS				VFR OVERFLIGHTS					TOTAL OPERATIONS
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL		
January	2	2	1	5	41	98	11	150	January	22,048
February	1	2	0	3	38	132	17	187	February	22,957
March				0				0	March	
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	3	4	1	8	79	230	28	337	Y-T-D Totals	45,005

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

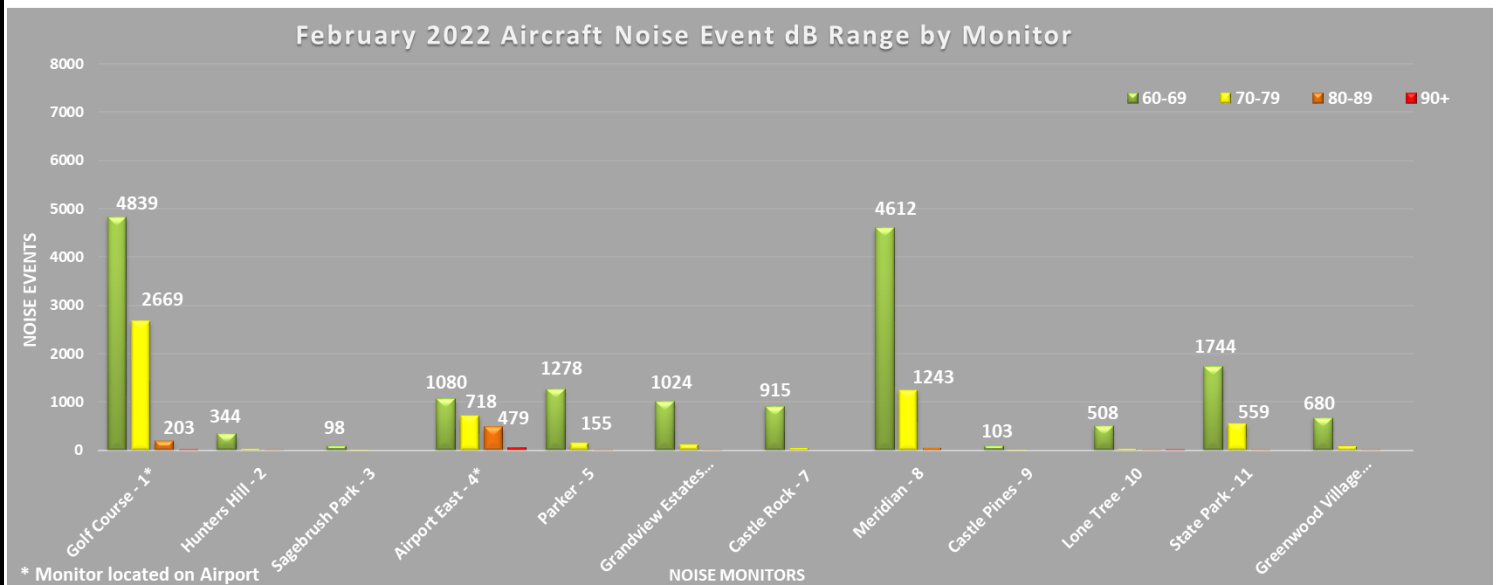
The following data displays the amount and associated decibel level of aircraft noise events at a given monitor. An aircraft noise event must contain the following characteristics:

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.

February 2022 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	4839	2669	203	6	7717
Hunters Hill- 2	344	38	2	0	384
Sagebrush Park- 3	98	13	0	0	111
Airport East- 4*	1080	718	479	47	2324
Parker- 5	1278	155	4	0	1437
Grandview Estates- 6	1024	131	5	0	1160
Castle Rock- 7	915	56	0	0	971
Meridian- 8	4612	1243	42	0	5897
Castle Pines- 9	103	8	0	0	111
Lone Tree- 10	508	39	1	2	550
State Park- 11	1744	559	12	0	2315
Greenwood Village- 12	680	84	1	0	765
Totals	17225	5713	749	55	23742

*Monitor located on Airport



7 FEBRUARY 2022 NOISE COMPLAINTS

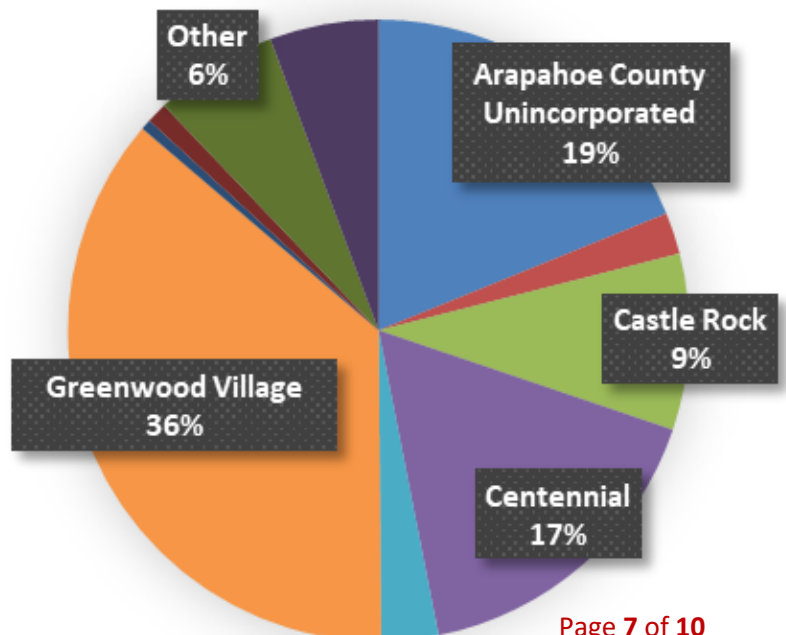
In February, Centennial Airport received 371 complaints from 19 households.

February Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	Census 2018
Arapahoe County Unincorporated	70	3	116	6	83,764
Aurora	8	1	23	1	374,114
Castle Pines	0	0	0	0	10,507
Castle Rock	34	1	65	2	64,827
Centennial	62	3	123	3	110,831
Cherry Hills Village	0	0	0	0	6,650
Denver	0	0	0	0	716,492
Douglas County Unincorporated	11	3	21	3	100,536*
Greenwood Village	135	3	255	4	15,801
Highlands Ranch	2	1	3	2	105,264
Lone Tree	0	0	2	1	14,653
Parker	21	2	22	2	55,636
Other	28	2	64	4	UNK
Total	371	19	694	28	1,659,075

*Douglas County Unincorporated Population with Highlands Ranch Removed

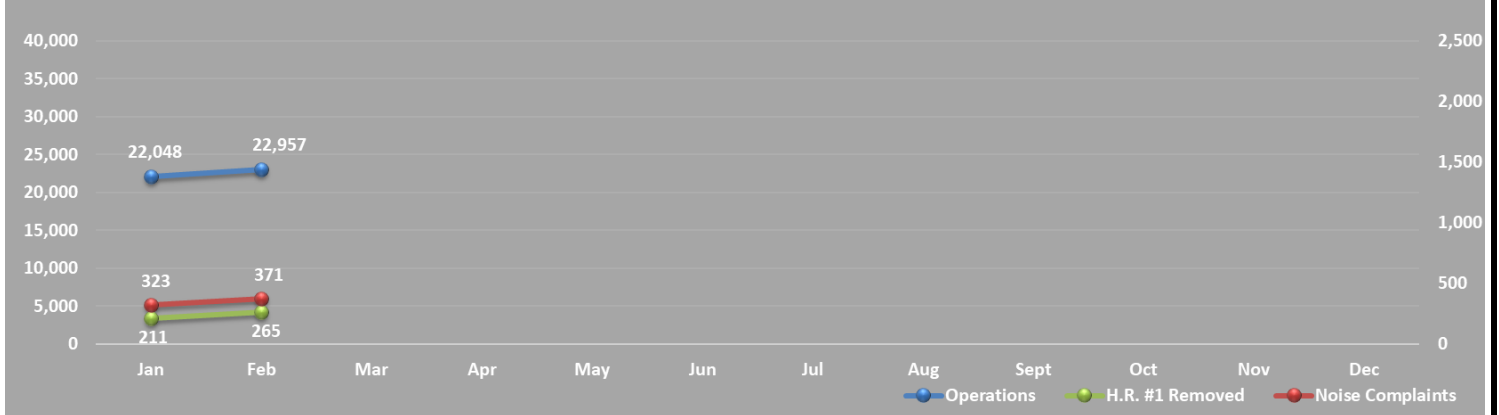
Noise Complaints Response Requested	
Email	17
Phone	14
Total	31

Complaints per Municipality

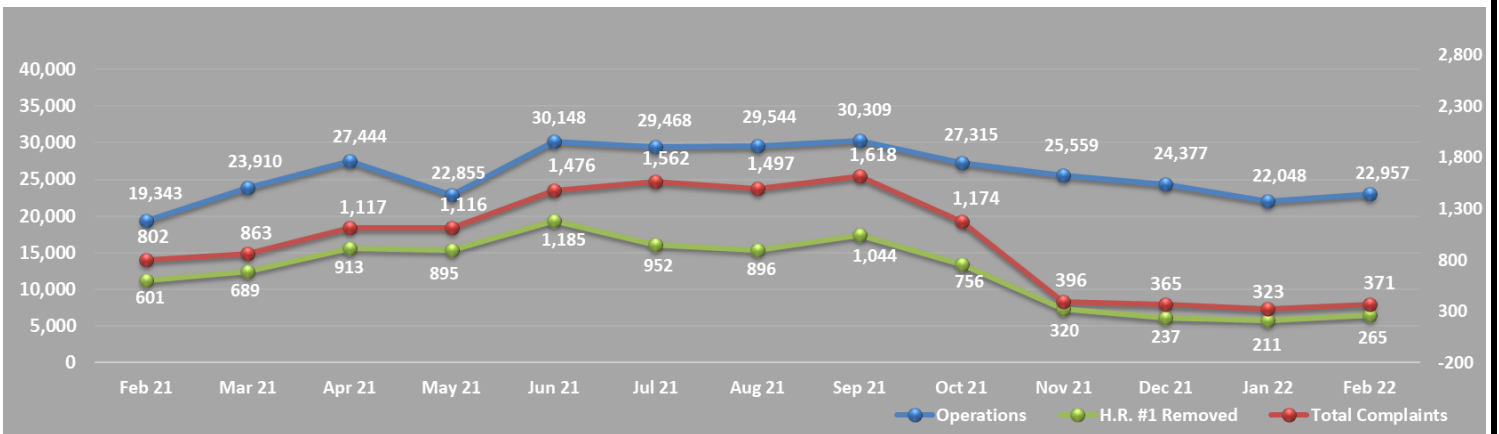


Time Complaint Received	Feb
Day Hours (7:00 am - 9:59pm)	361
Night Hours (10:00 pm - 6:59 am)	10
TOTAL	371

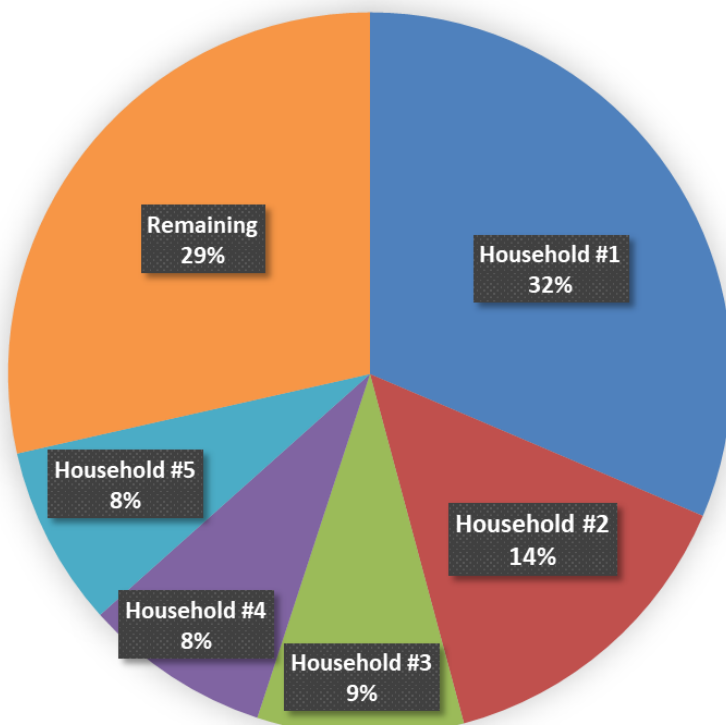
Current 12 Month Trend



Previous Year 13 Month Trend



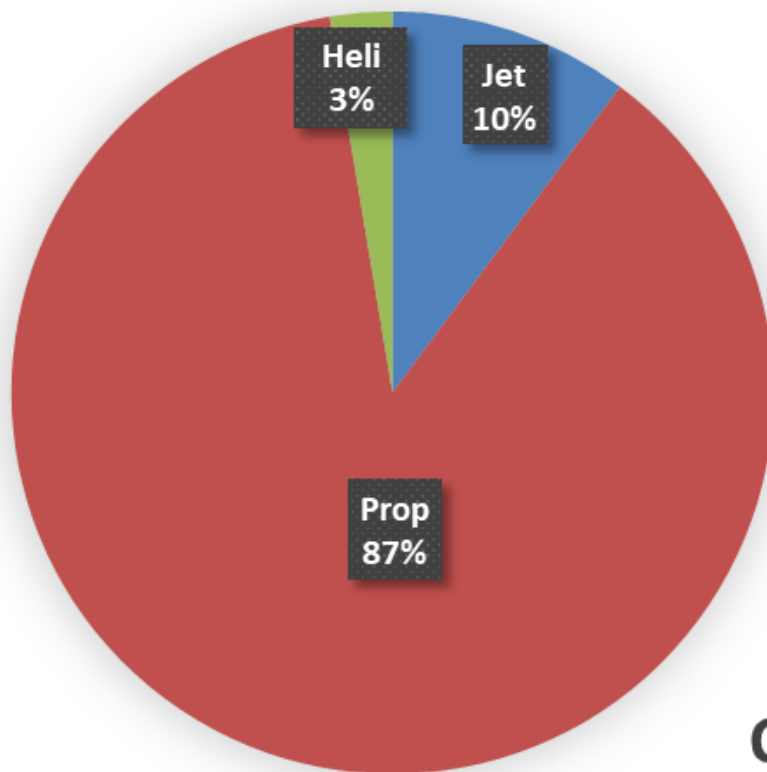
Top 5 Household Complaints YTD



Top 5 Household Complaints YTD		
Household	Complaints	Households
Household #1	218	Greenwood Village
Household #2	100	Centennial
Household #3	64	Castle Rock
Household #4	58	Other
Household #5	56	Arapahoe County Unincorporated
Remaining	198	
Total	694	

Complaints by Aircraft Type

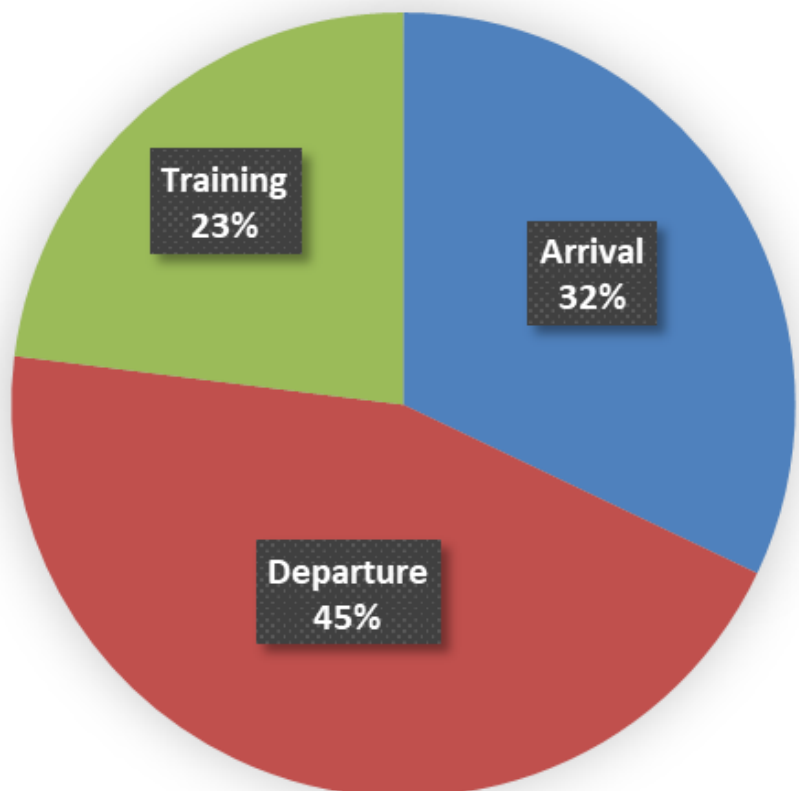
February 2022



*#1
Household
Removed

Complaints by Operation Type

*#1
Household
Removed



8 NOTES AND DISCLAIMER

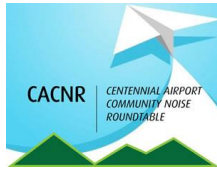
This report is for informational use only. Every effort has been made to ensure the accuracy of this data; however, the material may be altered as new information is added or updated in the system.

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 - March 2022 Monthly Report

Bill Wasmund, Chair

Airport Noise and Operations Reports – Over the next month, the committee will be working on revisiting data compiled from airport and operations reports created last month and selecting several items from our research that may be adopted into KAPA noise abatement efforts.

Revisit Airport Electronic Sign – Requested permission from KAPA operations to add noise abatement statements to the KAPA electronic sign on Peoria. We only want a very short subliminal message. Several message drafts have been prepared.

KAPA Whispertrack Update – Requested several updates to the KAPA Whispertrack information. Airport Contact, Preferential Runway, Preferential Instrument procedures, and Noise Ordinance.

UC Davis Conference - Discuss with other airports and consultants at the UC Davis conference regarding what community relation and voluntary fly quiet incentive programs have been successful. Several UC Davis programs are being offered that deal with these topics. Coordinating efforts with KAPA Operations.

Meeting Notes from the March 2, 2022, CACNR for the ACPAA on March 10, 2022

Candace Moon

- Election of CACNR Officers – The present slate of officers was re-elected for a one - year term. Brad Pierce, Chair; Paul Krieser, Vice Chair; Andy Jones, Treasurer and Alison Biggs, Secretary
- Brad Pierce Chair reported the committee reviewed the Flight School Engagement Summary Report from Jason Schwarz. Revisions are being made. Flight school follow ups continue.
- Bill Wasmund reported the pattern at the airport is saturated. ATCT is routing traffic to other satellite airports.
- Alison Biggs asked members to volunteer ideas for the Work Plan which is set to be revised this year. She will send the current workplan to CACNR members.
- Candace Moon reported there is an issue with the portable noise monitor at Highlands Ranch. Samantha Blymyer reported the noise monitor is offline and they are working with AT&T to resolve the issue.
- Members of the public were given a chance to make comments: Two voiced concerns about flight schools training over their homes for long durations of time – specifically Aspen Flying Club and Flights Inc. Response was given that CACNR plans to coordinate with at least one flight school per future Roundtable Meeting to address noise burdens caused by training traffic. Another member of the public happily announced that she has observed progress since her noise inquiries last October.
- A discussion was had regarding the option of in-person attendance for future CACNR meetings. It was agreed that given COVID cases remain low, future meetings will be held in-person for Roundtable members *and* the public with a virtual option still available.



ITEMS FOR FOLLOW-UP

For Review on April 6, 2022
Covers Calendar Year 2021 to date

AIRPORT STAFF

1. Request was made for CACNR to receive a summary or informational report about results from portable noise monitors when they were utilized. **Rachel Keller or airport staff** **01/06/21**
2. Had John Kocon from northwest of Castle Pines provided more information to airport staff for further exploration of dramatic change in flight paths affecting his area? **Rachel Keller – now Mike/Samantha** **04 07 21**
3. Send CACNR information about numbers and types of complaints or requests for information received from the public, and the information provided accordingly. **Airport Staff** **04/07/21**
4. Develop spreadsheet with nighttime data – 10:00 p.m. -6:00 a.m. **Airport Staff** **5/5/21**
5. Add CACNR email address and website to the airport's website home page under the listing for the Roundtable. **Rachel Keller – now Mike/Samantha** **11/3/21** **In Progress**
6. Staff analysis of recent flight tracks and updated heat maps to be shared with CACNR **Rachel Keller – now Mike/Samantha and Fly Quiet Committee** **11/03/21**
7. CACNR to be provided with current ambient noise levels for each noise monitor. **Rachel Keller – now Mike/Samantha** **11/3/21**
8. Provide separate noise data for Elizabeth area, due to increased complaints from that area. **Airport staff – now Mike/Samantha** **12/01/21**
9. Make information about air space classifications and their effects easily available to the public. **Rachel Keller – now Mike/Samantha** **11/03/21**
10. Ask FAA representative such as Ron Curry to attend a future meeting to provide more specific information about how traffic patterns are managed **Samantha** **03/02/22**
11. Develop something to alert the public about the runway and run up area repair, when it is scheduled, which can be shared with CACNR Representatives for their communities. **Staff** **03/02/22**
12. Return radar density maps and maps of locations of year-to-date and monthly noise complaints **Samantha** **03/02/22** **In progress**

BRAD PIERCE AND OTHERS

1. Follow up to be done with Jason Crow re Congressional Quiet Skies Caucus. **Brad Pierce/Emily Tranter (N.O.I.S.E.)** **03/03/21** **In progress**

2. Provide link to the report from the U.S. Department of Transportation, Office of Inspector General to Colorado members of Congressional Quiet Skies Caucus. **Brad Pierce/Emily Tranter 05/05/21**
3. Provide information re the town of Elizabeth becoming CACNR member to Kim Hellweg **Brad Pierce 12/01/21**
Reach out to Elbert County to ascertain its interest in becoming a CACNR member. **Dan Avery 12/01/21**

COMMUNITY OUTREACH COMMITTEE

1. Explore ways to utilize social media to reach the public. **Community Outreach Committee 10/06/21**
2. Provide information to the public about the anticipated demand for more flight training as the need for new pilots is increasing. **Community Outreach Committee 04/07/21**

EXECUTIVE COMMITTEE

1. More meetings to be held with flight schools (one held). Information being gathered from flight schools to see if there is any consistency. **EC with Fly Quiet/Airport Staff 05/05/21**

FLY QUIET COMMITTEE

1. Continue work to identify location of 2nd noise abatement sign. **Fly Quiet Committee 08/04/21 in progress**
2. Continue exploring incentives for voluntary use of fly quiet procedures; **Fly Quiet Committee 09/01/21 in progress**
 - a. exploring how hotline information is collected and used at other airports
 - b. possibly pursue inviting those high on the complaint list to learn more about how their actions affect the communities.
3. If appropriate, share information about carbon fiber composite materials and how propeller upgrades might take advantage of reduced power settings, resulting in less noise, weight reduction, longer service life, and possibly increased cruise speed with pilots and with flight schools. **10/06/21 in progress**
4. Fly Quiet reconsidering approach to recognizing pilots who fly quiet. **Fly Quiet Committee 11/03/21**
5. See if Noise Abatement Guidelines (NAG) should be updated **Fly Quiet Committee 02/03/21**
6. Staff updates awaited for adding Noise Abatement Guidelines to Whispertrack's electronic tablet application. **Fly Quiet Committee with Rachel Keller now Mike Fronapfel and/or Samantha Blymyer 6/02/21**

NOISE MONITOR COMMITTEE

1. Hold education session about capabilities of the noise monitoring system, to include ambient thresholds which are adjusted annually, additional types of data available which CACNR would find useful, Information of how locations of current monitors were selected, etc. **Noise Monitor Committee/EC 08/04/21**

2. Provide future in depth look at capabilities of the noise monitoring software. **Noise Monitor Committee**
12/01/21
3. Consider using someone such as Eugene Reindel of Harris Miller Miller & Hanson, Inc. (HMMH) who was instrumental in the placement and workings of the monitors available for a future meeting as appropriate.
05/05/21

WORK PLAN COMMITTEE

1. Continue work on CACNR Orientation materials for placement on CACNR website. **Work Plan and Community Outreach Committees** **06/02/21**
2. Review maps to be used in Orientation materials, to provide more detail as appropriate **WP/Staff**
11/03/21
3. Consider possible need for 'outside' assistance in getting the orientation material on the website **WP and Community Outreach Committees** **11/03/21**

OTHER

1. Follow-up possibly making the Good Neighbor Procedure an official procedure. **Liam Clark 05/05/21**
2. Determine feasibility and cost of adding a permanent monitor to the system. **10/06/21**
3. Ask control tower to attend the meeting under development and referenced in #7 above *(CACNR to determine what, if any, additional information about noise and its effect on the public the public would like to regularly receive, and how that would be used; explore capabilities of current noise monitor system to generate that information; explore capabilities and costs of other systems if appropriate.)*
04/07/21
4. Request was made for a completion date to be added for each item, so CACNR needs to identify its expectations in that regard. Dates need to be established at the time needed action is identified. **ALL**
5. Could NAG be formally incorporated into flight school best practices – consult with flight schools.
02/03/21
6. Include the impacts of flight noise in immediate proximity to the airport. **04/07 21** (From the minutes, during discussion of the training areas – “Comment was made that In addition to working with the flight schools and attention to the training boxes, the impacts of flight noise in the immediate proximity to the airport should not be lost, and perhaps should be included in the discussions. It was also noted the FAA’s APA control tower should be asked to participate in any such meeting as well.”)

CACNR/ACPAA 2022 MEETING SCHEDULES

CACNR REPRESENTATIVES TO 2022 MEETINGS OF THE ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY

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

<u>CACNR MEETINGS</u>	<u>ACPAA MEETINGS</u>	<u>CACNR REPRESENTATIVE</u>	<u>REPORT DUE DATE</u> (To centennialairport.com)
January 05	ACPAA not meeting		include with Feb CACNR report
February 02	February 10	Brad Pierce	February 04 (see above)
March 02	March 10	Candace Moon	March 04
April 06	April 14	Donna Johnston	April 08
May 04	May 12		May 06
June 01	June 16 (note 3 rd Thursday)		June 10
July 06	ACPAA not meeting		include with Aug CACNR report
August 03	August 11		August 05 (see above)
September 07	September 08		May Not Be Time to Write
October 05	October 13		October 07
November 02	November 10		November 04
December 07	December 08		May Not Be Time to Write



NextGen Advisory Committee (NAC) Meeting

AGENDA

Date: Monday, March 28, 2022

Time: 12:30 - 3:30 PM ET

Location: Virtual Only

Item	Time (ET)	Topic
1.	12:30 - 12:40 10 Minutes	Opening of Meeting <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> • Establish Quorum • Housekeeping Notes • Public Statements
2.	12:40 - 12:55 15 Minutes	Chairman's Report <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> • Former Meeting Minutes Approval • Chairman's Comments
3.	12:55 - 1:05 10 Minutes	Industry Forum on Community Engagement Update <i>Brad Pierce, N.O.I.S.E</i> • Provide status on industry-only initiative focused on how the NAC can encourage broader aviation industry participation in the FAA's existing community engagement structure
4.	1:05 - 1:35 30 Minutes	FAA Report <i>FAA</i> • FAA leadership will provide information on important FAA issues
5.	1:35 - 2:05 30 Minutes	Chairman's Roundtable <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> • NAC Member Discussion
6.	2:05 - 2:30 25 Minutes	FAA Topics <i>FAA</i> • FAA provides insights on NAC-related issues



Item	Time (ET)	Topic
7.	2:30 – 3:20 50 Minutes	NAC Subcommittee (SC) Chairman’s Report NAC Taskings Status <i>John Ladner, NAC SC Chairman, Alaska Airlines</i> • NAC Task 21-1: MCL Update • NAC Tasks 18-4 & 18-5: Focus Area Risks / Mitigations > Northeast Corridor (NEC), Multiple Runway Operations (MRO), Surface & Data Sharing, & Data Communications (Data Comm)
8.	3:20 - 3:25 5 Minutes	Review of Action Items & Other Business <i>Kimberly Noonan, NAC Committee Manager, FAA</i>
9.	3:25 - 3:30 5 Minutes	Closing Comments & Adjourn <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> • FAA comments • NAC Chair comments