



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE
September 7, 2022

5:00 p.m. – Airport Tour for CACNR Representatives/Alternate Representatives
(Prior Registration Required)

REGULAR CACNR MEETING

6:30 p.m. – 8:30 p.m.

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

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

AGENDA

CACNR Mission: Utilizing Partnerships to Reduce Airport Noise for the Benefit of Neighboring Communities

Chair: Brad Pierce Vice Chair: Paul Krier Treasurer: Andy Jones Secretary: Alison Biggs

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> Todd Hendreks/Carson Byerhof
<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> John Hirshman/Vacant
<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> Vacant/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

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, August 3, 2022 – Alison Biggs, Secretary
- B. TREASURER'S REPORT, August 2022 – Andy Jones, Treasurer
- C. NOISE REPORT, July 2022 – Samantha Blymyer

4. ITEMS REMOVED FROM CONSENT AGENDA:

5. COMMITTEE REPORTS:

- A. EXECUTIVE/WORK PLAN COMMITTEE – Brad Pierce, Chair
 - 1. Status of Follow Up Items
 - 2. Other
- B. COMMUNITY OUTREACH – Mike Anderson
 - 1. Status of Follow Up Items
 - 2. Other
- C. FLY QUIET – Don Kuskie for Bill Wasmund, Chair
 - 1. Status of Follow Up Items
 - 2. Other
- D. NOISE MONITORS – Candace Moon, Chair
 - 1. Status of Follow Up Items
 - 2. Other

- 6. **FAA REPORT:**
 - A. CENTENNIAL AIRPORT AIR TRAFFIC CONTROL TOWER – Vacant/Ron Curry

- 7. **OTHER REGULAR REPORTS:**
 - A. ACPAA – August 11, 2022, John Hirshman for CACNR
 - B. AIRPORT DIRECTOR'S REPORT – Mike Fronapfel
 - 1. Airport Activity
 - 2. Legislative
 - 3. Status of Follow Up Items
 - 4. Other
 - C. NEXTGEN ADVISORY COMMITTEE, 8/30/22 AGENDA – Brad Pierce
 - D. FLIGHT SCHOOLS:
 - 1. Aspen Flying Club – Kristine Chipman
 - 2. ATP – John Herman
 - 3. Flights Inc. – Mike Underriner
 - 4. Independence Aviation – Ian Howells

- 8. **OLD BUSINESS:**
 - A. TO REPRESENT CACNR AT FOLLOWING ACPAA MEETINGS:
 - 1. November 10 December 8
 - B. CONGRESSIONAL QUIET SKIES CAUCUS

- 9. **NEW BUSINESS:**
 - A. INFORMATION SHARING

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

- 11. **NEXT MEETINGS:**
 - A. CACNR –

October 5, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
November 2, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
December 7, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D

 - B. ACPAA –

September 8, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D – Paul Krier for CACNR
October 13, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D – Paul Krier for CACNR
November 10, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D
December 8, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D

- 12. **ADJOURN**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE
MINUTES

August 3, 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:** Paul Krier **Treasurer:** Andy Jones **Secretary:** Alison Biggs

1. **CALL TO ORDER, ROLL CALL, and QUORUM:** The meeting was called to order at 6:34 p.m. by Chair Brad Pierce. The following were in attendance, and a quorum was present:

Arapahoe County:	Carrie Warren-Gully (virtual)	Foxfield:	Pam Thompson
Arapahoe County:	Paul Krier	Greenwood Village:	Donna Johnston
Douglas County:	Dan Avery	Highlands Ranch Metro:	Andy Jones
Douglas County:	Alison Biggs	Lone Tree:	Mike Anderson
Aurora:	Brad Pierce	Parker:	Carson Byehof
Castle Pines:	Chris Eubanks	ACPAA:	Mike Fronapfel
Castle Rock:	Laura Cavey	AOPA:	John Hirshman
Centennial:	Candace Moon	CABA:	Don Kuskie

Others in attendance were Arapahoe County Alternate Representative Evan Colvin; Aurora Alternate Representative Karen Hancock; Wings Over the Rockies Representative Bill Wasmund; and ACPAA staff Samantha Blymyer, Lauren Wiarda, and Chris Thompson via telephone.

Those absent were:

Cherry Hills Village:	Al Blum/Afshin Safavi	FAA District Office:	John Bauer/John Sweeney
CDOT Aeronautics Div:	Todd Green/Vacant	FAA TRACON:	Steve Martin/Bill Dunn
FAA APA Control Tower:	Vacant/Ron Curry		

SPECIAL PRESENTATION: Will Rummel, Training Support Manager with ATP Flight School reviewed the history of ATP, which is nationwide and is the largest such flight school in the nation. Founded in 1984, ATP has been at Centennial Airport since 2012. It focuses on flight training for commercial purposes, and is set up to address problems directly with those involved, through a system of data collection and staff monitoring. Training includes an emphasis on noise abatement.

Night training flights are restricted to only those required by the FAA. Maneuvers are to be done at 1,500 feet above ground level unless something lower is required by the FAA; if necessary, every effort is made to do so over uncongested areas. All instructors are aware of where our communities are. The southeast training boxes tend to be used more than those in the southwest.

Mr. Rummel provided more specific information and answers to questions, noted he would be leaving ATP soon and introduced John Herman who would be taking his place. Both were thanked and invited to return at any time.

2. **PUBLIC COMMENT:**

A. **VIRTUAL/IN-PERSON MEETING ATTENDEES** – Randy Johnson of Louviers provided statistics from his tracking of flights over his area, which he called airplanes of interest; he has been keeping a journal for quite some time. Interestingly, his dog can seem to recognize training flights and barks at them. This morning, there were seven flights circling over his residence, mostly in an east/west pattern. His journal showed such things as 39 in June, 104 in July, and 12 so far in August. He had been able to identify the school involved for all of these. Question was asked if it would be possible to put a portable noise monitor at his location. One had been placed there previously, but the dog's barks registered on the monitor and affected the readings. Johnson and airport staff would work to see if some solution might be found for the area.

Kimberly Hellweg from the Elizabeth area, close to the Douglas County line, noted there is a problem in her area around 5:30 – 6:00 a.m. many mornings. She has been able to identify flights from ATP are usually not problematic, but those from other flight schools, not so much. She wondered if the schools could coordinate their use of the practice boxes, as one would be waiting to practice and circling for about 45 minutes, to be immediately followed by another for a similar amount of time as soon as a box became free. This seemed to go on for 2.5 – 3 hours at a time.

Mike Fronapfel indicated this could be one of the items to be explored during a meeting with the flight schools, and identified the three areas used the most, with cross over happening at times. It was noted that neither CACNR or the airport can regulate

what training aircraft do, but the schools need to hear what we hear from the public and all need to work together to assure good neighborliness.

Donna Johnston reporting for Greenwood Village noted much activity lately, with as many as 24 passes in a 1.5 hour morning period. At another time, it seemed the same plane was overhead for five hours. At another, there were two planes passing over, one right after the other for a lengthy time. She asked for them to be identified and contacted to request a change in that kind of activity. Observation was made that some of this may be the result of flights in the pattern which air traffic control has to manage to avoid another mid-air collision here. When the new manager at the tower arrives, he/she will be invited to attend a CACNR meeting where these types of concerns can be shared. Whether or not the flight schools might use another airport was also mentioned.

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

3. **CONSENT AGENDA:**

A. & B. – DRAFT MINUTES AND TREASURER’S REPORT - The Consent Agenda included the Jul 6, 2022 draft CACNR minutes; and a Treasurer’s Report from 07/28/22 which showed a balance of \$24,310.30. The Consent Agenda also included the June 2022 Noise Report. On the motion of Andy Jones, duly seconded, the Consent Agenda was approved.

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

June Total Operations: 25,800 June Total Local Operations: 10,675
Year to Date Total Operations: 146,089 Year to Date Local Operations: 63,553

502 Complaints from 25,800 Total Operations in June

Noise Events: **Monitor #1 Golf Course was down for 10 days in June

<u>June Totals:</u>	<u>June 60 – 69 db:</u>	<u>June 70 – 79 db:</u>	<u>June 80 – 89 db:</u>
6,470 Meridian	4,693 Meridian	2,503 Golf Course	583 Airport East
6,710 State Park	3,245 Golf Course	1,679 Meridian	260 Golf Course
6,020 Golf Course	1,825 State Park	874 State Park	57 Meridian
2,554 Airport East	1,645 Parker	855 Airport East	10 State Park
1,823 Parker	1,274 Grandview Estates	176 Parker	8 Greenwood Village
1,414 Grandview Estates	1,085 Airport East	137 Grandview Estates	4 Lone Tree
1,019 Castle Rock	977 Castle Rock	129 Greenwood Village	2 Parker
1,015 Greenwood Village	878 Greenwood Village	57 Hunters Hill	1 Castle Pines
709 Lone Tree	653 Lone Tree	52 Lone Tree	1 Castle Rock
622 Hunters Hill	564 Hunters Hill	41 Castle Rock	1 Grandview Estates
227 Castle Pines	252 Castle Pines	22 Castle Pines	1 Hunter Hill
176 Sagebrush Park	164 Sagebrush Park	12 Sagebrush Park	- Sagebrush Park

June Noise events in the 90+ decibel range were Meridian – 41 Airport East – 31 Golf Course – 12 State Park – 1

June Noise Complaints(502) and Numbers of Households (46):

YTD Complaints & Number of Households:

<u>Noise Complaints:</u>	<u>Number of Households:</u>	<u>Noise Complaints:</u>	<u>Households:</u>
133 Greenwood Village (26%)	9 UAC (20%)	763 Greenwood Village	19 Other
122 Unincorporated Arapahoe Cnty (24%)	8 UDC (20%)	574 Centennial	15 UAC
118 Centennial (24%)	6 Greenwood Village(13%)	469 UAC	15 Greenwood Village
47 Castle Rock (9%)	5 Centennial (11%)	270 Castle Rock	10 UDC
25 Other (5%)	4 Other (9%)	151 Other	7 Centennial
19 Unincorporated Douglas County (4%)	3 Castle Rock (7%)	97 UDC	6 Lone Tree
18 Aurora (4%)	3 Highlands Ranch (7%)	83 Aurora	5 Aurora
11 Highlands Ranch (2%)	2 Aurora (4%)	37 Highlands Ranch	5 Castle Rock
5 Castle Pines (1%)	2 Castle Pines (4%)	26 Parker	5 Parker
4 Lone Tree (0.8%)	2 Lone Tree (4%)	20 Lone Tree	4 Highlands Ranch
1 Denver (0.2%)	1 Denver (2%)	16 Denver	3 Castle Pines
1 Parker (0.2%)	1 Parker (2%)	14 Castle Pines	2 Denver
- Cherry Hills Village	- Cherry Hills Village	- Cherry Hills Village	- Cherry Hills Village

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

Greenwood Village – 625 (25%) UAC – 189 (7%)
 Centennial – 484 (19%) UAC – 142 (6%)
 Castle Rock – 225 (9%)

In June, **38 responses** were requested from **502 noise complaints**, with 18 of those requests made by email (47%), and 20 made by telephone (53%).

In June, 468 complaints were made about **daytime flights** (7:00 a.m. – 9:59 p.m.) – 91%
 44 complaints were made about **nighttime flights** (10:00 p.m. – 6:59 a.m.) – 9%

In June, **props** accounted for **66% of the complaints by aircraft type; jets** accounted for **33% of the complaints; and 1% was about helicopters.**

In June, **departures** were responsible for **53% of the complaints. Arrivals** were responsible for **27% of the complaints, and Training** was responsible for **20% 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. Staff continues to work to provide this information.

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

5. **COMMITTEE REPORTS:**

A. **EXECUTIVE /WORK PLAN COMMITTEES** –Representatives were reminded to get any suggested revisions to the Noise Abatement Guidelines to Samantha Blymyer. Representatives who will not be able to attend a CACNR meeting were also asked to see if their Alternate Representatives can attend, so their Member jurisdiction will always be represented. It was agreed the attendance record would be sent out monthly; the roster will be sent twice a year. The status of follow-up items was briefly reviewed.

B. **COMMUNITY OUTREACH** – Mike Anderson indicated the committee had not met again, but he anticipated there would be progress soon with Trish Coberly about the website.

C. **FLY QUIET** –Don Kuskie reported the committee had not met. However, a Fly Quiet message had been put up on the electronic sign on Peoria. The plan is to create other messages for placement there, so there will frequently be something new to catch the attention of the public as well as pilots. The Committee and airport staff were thanked for making this happen.

It was suggested this might help educate the community about what CACNR does. Question was asked how we talk about the work of CACNR to the community, Response was mostly through the website which unfortunately was not being kept up to date as thought. The use of social media has been on the list to be explored. Suggestion was made that CACNR reach out to Colorado Community Media, the various “Villagers,” and other local newspapers. Question was asked who was responsible for following through with contacting the media. Mike Anderson indicated the Community Outreach Committee would be meeting with the airport’s Manager of Communications/PIO, Chris Thompson, about the use of social media, the website with Trish Coberly, etc. The idea of having a media focus night was mentioned, with more discussion of the idea in September for a possible such event in October. It was noted that with more visibility for CACNR, more complaints might be expected.

D. **NOISE MONITORS** – Candace Moon indicated the committee had met, and there were two requests First was for the portable noise monitor to be replaced in Highland Ranch for at least 2-3 months if at all possible. Following that, there should be exploration of placing a permanent monitor in the southwest area where the population has grown dramatically since the monitors were originally installed. Second was to resume the staff education sessions about the noise monitors and their capabilities, ambient noise levels for each, etc. Mike Fronapfel noted the ambient noise levels are checked every year and revised as needed, and this had just been done within the last month. That information would be provided to CACNR.

The committee would like to close the loop between complaints and the available data, increase CACNR’s knowledge of what is done with complaints and how they are or are not linked with offending aircraft, what might be done about communicating with offending aircraft so pilots can know if they are causing problems for those on the ground, are complainers ‘satisfied’ when they have asked for a response to their complaints, etc., and can there be more specific information provided to CACNR comparing complaints with the location involved. Moon indicated she would try to meet with Bill Wasmund, as the committees have some similar identified areas of interest.

Mike Fronapfel said that currently, every complaint for which a response is requested gets investigated and the complainer receives a detailed reply He suggested perhaps a case study might be presented by staff every month. That idea was welcomed. In addition, the portable monitor was available to be returned to the Highlands Ranch area, and Andy Jones indicated the location was still available.

6. **FAA REPORTS:**

A. **CENTENNIAL (APA) AIR TRAFFIC CONTROL TOWER** – No report..

7. **OTHER REGULAR MONTHLY REPORTS:**

A. **ACPAA** – There had been no ACPAA meeting in July. Reports from both this meeting and the August meeting would be provided to ACPAA in August; they would be prepared by Brad Pierce and Alison Biggs and presented by John Hirshman representing CACNR.

B. **AIRPORT DIRECTOR’S REPORT** –

1. Airport Activity: Mike Fronapfel reported sales of both avgas and jet fuel had increased in June, with both almost 15% higher than in 2021. Traffic was up in July. The hotel matter had been closed and it would be refurbished and reopened as a Sheraton in about a year.

The solar batteries had been stolen from noise monitor #1, so two months of data had been lost. The monitor is near some residential construction, so it may have been an attractive target, but there is little chance of locating the thief.

2. Legislative – Fronapfel indicated the airport had received the \$9 million grant which would be used for the touch and go runway. Construction will begin in late August and should be completed in late September. With that runway closed, the remaining runways would assume more traffic, probably resulting in more noise particularly for those to the north of the airport. Those neighborhoods should be informed of that possibility. Request was made for specific construction dates when they are available.

3. Other – The airport will be adding two new charging station for electric cars.

8. **OLD BUSINESS:**

A. **TO REPRESENT CACNR AT 2022 ACPAA MEETINGS** – John Hirshman would handle the August 11 meeting. Paul Krier volunteered to do the September date. Still to be filled were October 13, November 10, and December 8.

B. **CONGRESSIONAL QUIET SKIES CAUCUS** – Brad Pierce will soon address this topic with Jason Crow's staff.

9. **NEW BUSINESS:**

A. **INFORMATION SHARING** – Candace Moon indicated the airport was doing a tour for representatives from Centennial and Lone Tree, and requested a similar one for CACNR Representatives. Mike Fronapfel suggested this could be done before the September meeting, which met with appreciation. The airport' bus accommodates 14.

Andy Jones reported the Douglas County School District had told him about the possibility of opening an aviation program in the 23/24 school year. It was hoping to find an old plane – one that will likely never fly again – for use with that program, and asked for help locating one. Mike Fronapfel reported a Douglas County member of ACPAA had already asked him for similar help, and he will be passing along the request as appropriate.

10. **PUBLIC COMMENT:** None


11. **NEXT MEETINGS:**

A. CACNR –	September 7, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	October 5, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	November 2, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	December 7, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D

B. ACPAA –	August 11, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D – John Hirshman for CACNR
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	December 8, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D

12. **ADJOURNMENT:** The meeting was adjourned at 8:33 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 09/01/2022		
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	\$ 13,250.00		
TOTAL INCOME:	\$	28,015.75	\$ 28,015.75		
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	\$ 2,180.45	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	\$ 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	\$ 3,705.45		
CURRENT BALANCE			\$ 24,310.30		
CARRY OVER TO 2023	\$	-		Actual to be determined 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



July 2022

Item 21

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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.

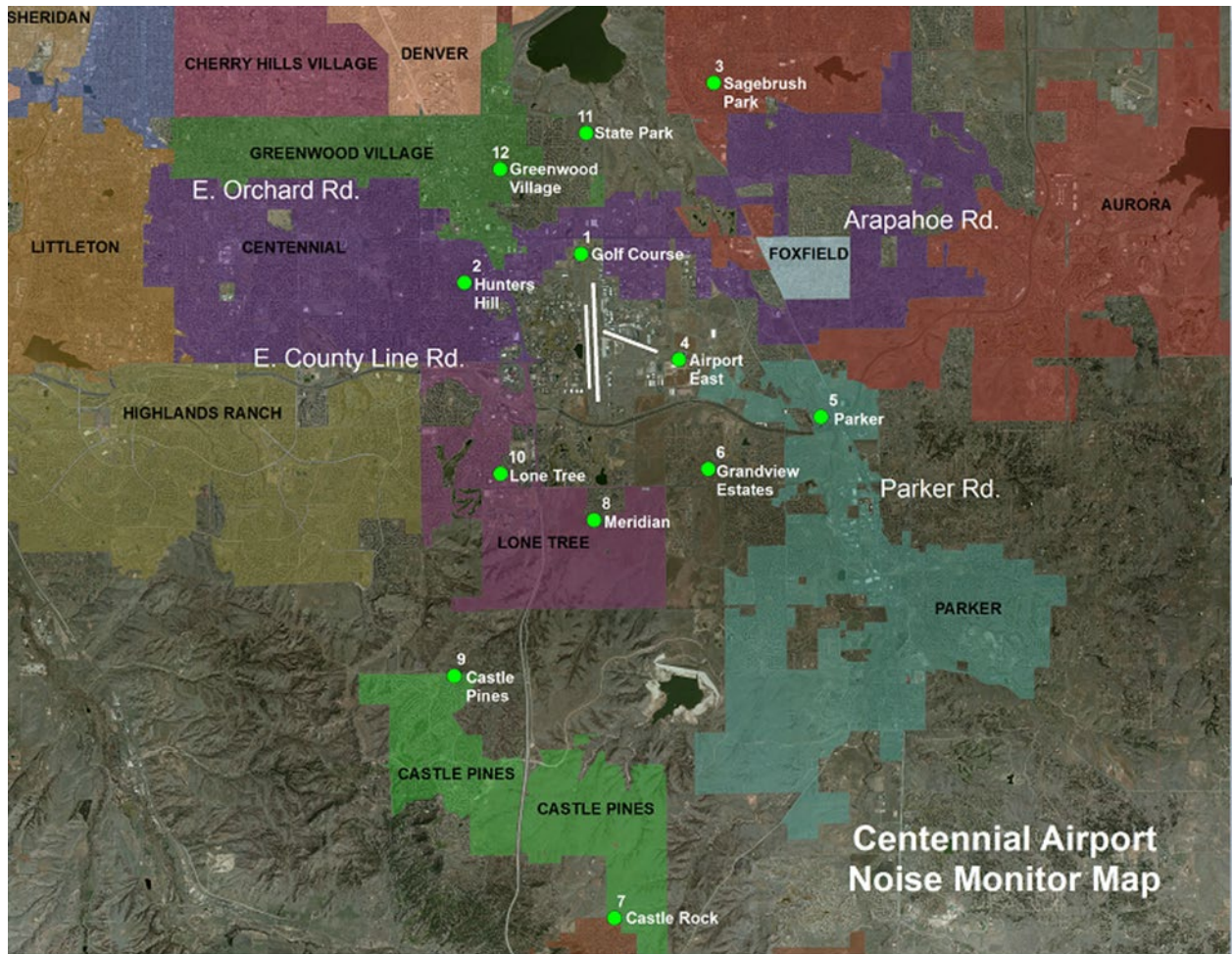
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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

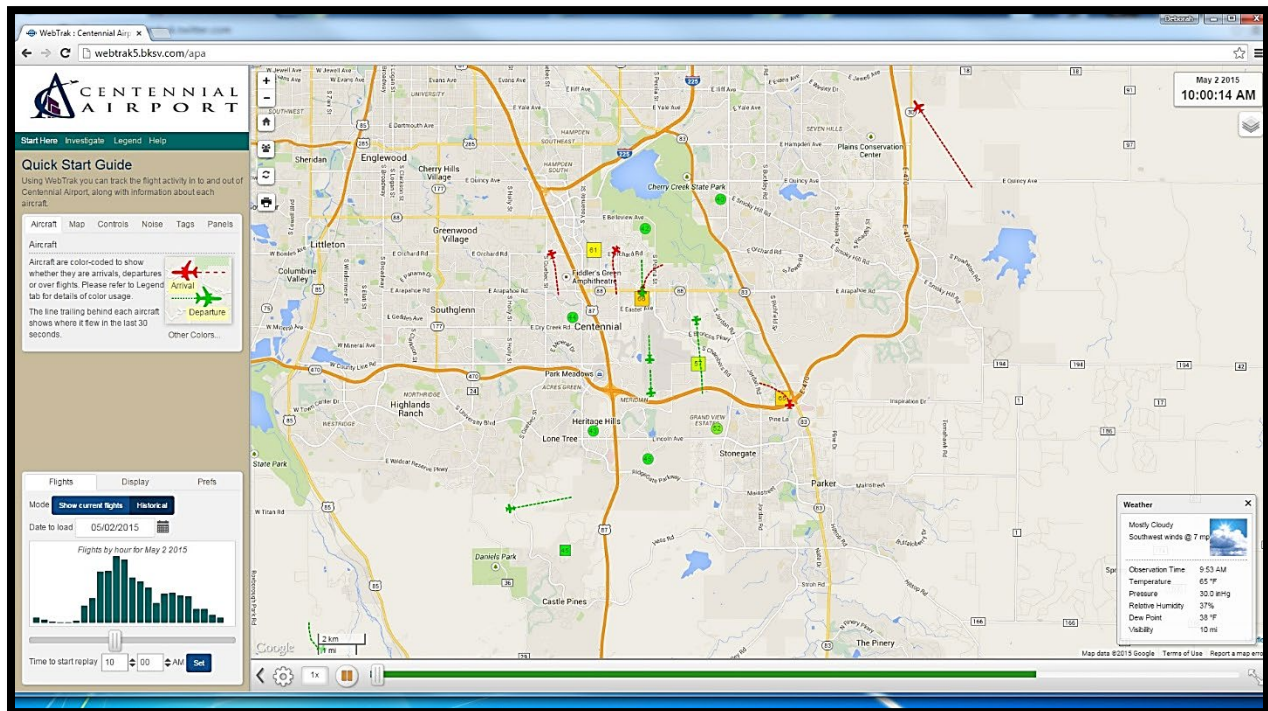
3 ABOUT APA'S NOISE MONITORING PROGRAM

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>

Centennial Airport Website: <https://www.centennialairport.com/index.php/en/>

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	2,741	4,129	170	7,040	1,330	5,922	90	7,342	10,435	50	10,485
April	2,425	3,440	191	6,056	1,220	5,502	106	6,828	10,611	35	10,646
May	2,655	3,439	235	6,329	1,315	5,930	134	7,379	12,556	18	12,574
June	2,660	3,881	190	6,731	1,227	6,808	158	8,193	10,608	71	10,679
July	2,552	4,039	169	6,760	1,172	7,545	126	8,843	15,221	46	15,267
August				0				0			0
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	17,923	25,729	1,167	44,819	8,644	42,722	807	52,173	78,484	336	78,820

	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	4	4	1	9	46	115	11	172	March	25,048
April	6	7	1	14	38	144	11	193	April	23,737
May	2	6	0	8	47	156	6	209	May	26,499
June	1	9	1	11	47	132	7	186	June	25,800
July	3	5	3	11	38	159	11	208	July	31,089
August				0				0	August	
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	19	35	7	61	295	936	74	1,305	Y-T-D Totals	177,178

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.

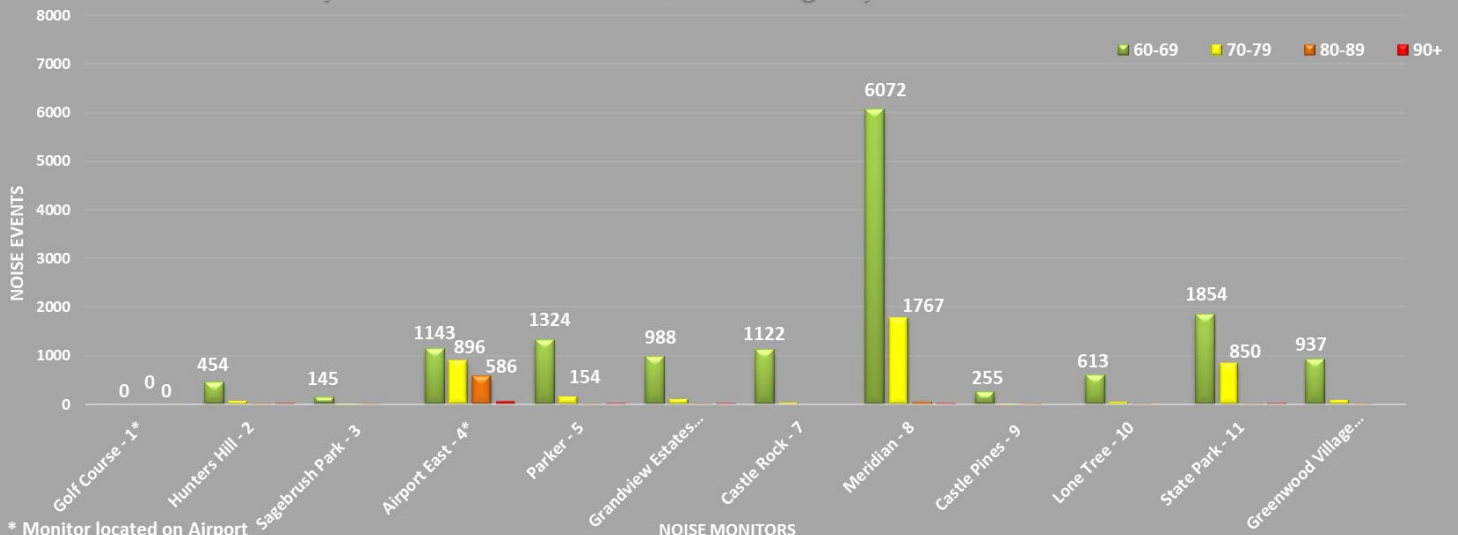
The information below reflects only aircraft noise events as described above.

July 2022 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	0	0	0	0	0
Hunters Hill- 2	454	64	3	2	523
Sagebrush Park- 3	145	13	1	0	159
Airport East- 4*	1143	896	586	49	2674
Parker- 5	1324	154	3	1	1482
Grandview Estates- 6	988	111	8	2	1109
Castle Rock- 7	1122	40	0	0	1162
Meridian- 8	6072	1767	55	3	7897
Castle Pines- 9	255	11	1	0	267
Lone Tree- 10	613	52	4	0	669
State Park- 11	1854	850	13	1	2718
Greenwood Village- 12	937	85	9	0	1031
Totals	14907	4043	683	58	19691

*NMT 1 was down for whole month of July

*Monitor located on Airport

July 2022 Aircraft Noise Event dB Range by Monitor



* Monitor located on Airport

NOISE MONITORS

7 JULY 2022 NOISE COMPLAINTS

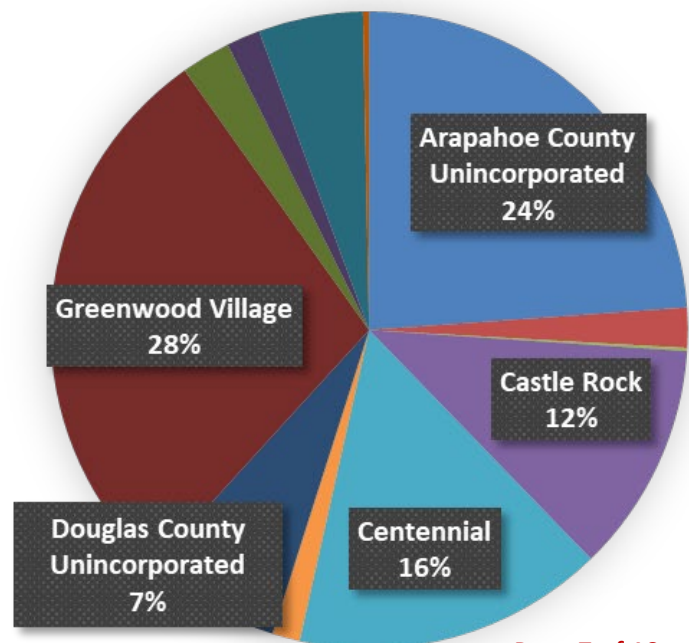
In July, Centennial Airport received 641 complaints from 73 households.

July Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	Census 2018
Arapahoe County Unincorporated	153	25	629	39	83,764
Aurora	13	1	96	5	374,114
Castle Pines	1	1	15	3	10,507
Castle Rock	75	2	345	5	64,827
Centennial	101	4	675	8	110,831
Cherry Hills Village	0	0	0	0	6,650
Denver	9	5	25	6	716,492
Douglas County Unincorporated	44	6	144	12	100,536*
Greenwood Village	182	12	945	22	15,801
Highlands Ranch	16	2	53	5	105,264
Lone Tree	11	7	31	9	14,653
Parker	2	2	28	6	55,636
Other	34	6	175	15	UNK
Total	641	73	3161	135	1,659,075

*Douglas County Unincorporated Population with Highlands Ranch Removed

*Other: Littleton, Englewood, Boulder

Complaints per Municipality



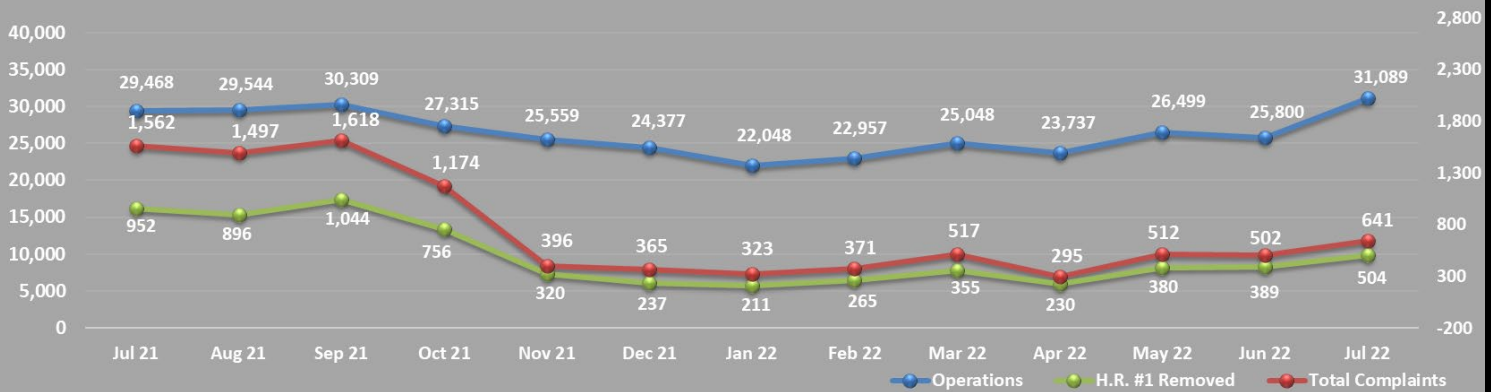
Noise Complaints Response Requested	
Email	29
Phone	26
Total	55

Time Complaint Received	July
Day Hours (7:00 am - 9:59pm)	611
Night Hours (10:00 pm - 6:59 am)	30
TOTAL	641

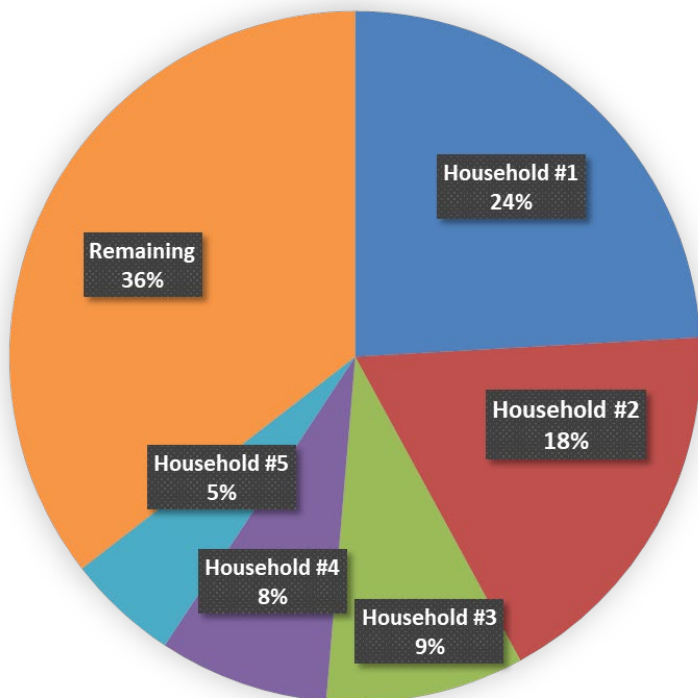
Current 12 Month Trend



Previous Year 13 Month Trend



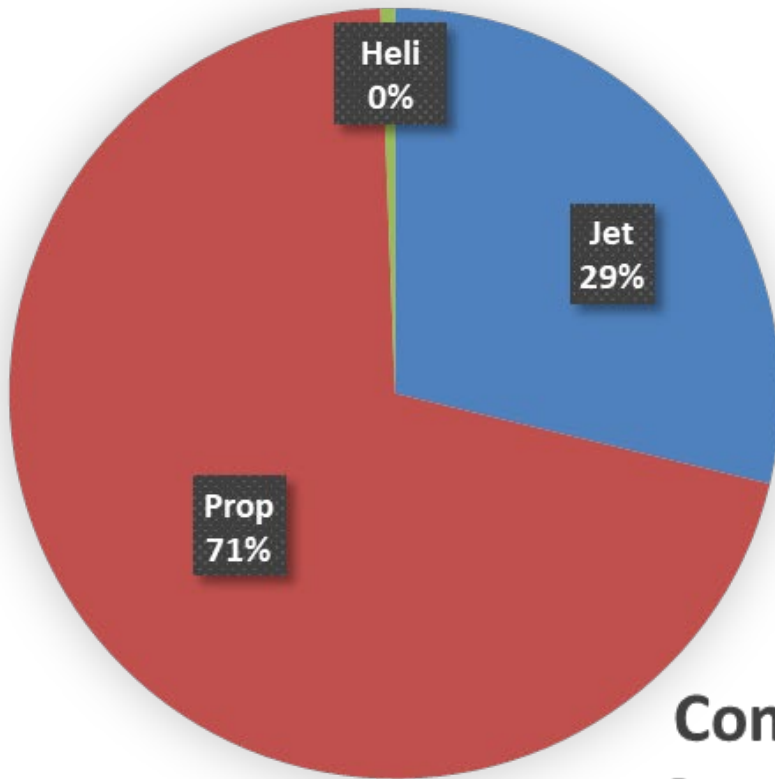
Top 5 Household Complaints YTD



Top 5 Household Complaints		
Household	Complaints	Households
Household #1	762	Greenwood Village
Household #2	568	Centennial
Household #3	293	Castle Rock
Household #4	251	Arapahoe County Unincorporated
Household #5	165	Arapahoe County Unincorporated
Remaining	1,122	
Total	3,161	

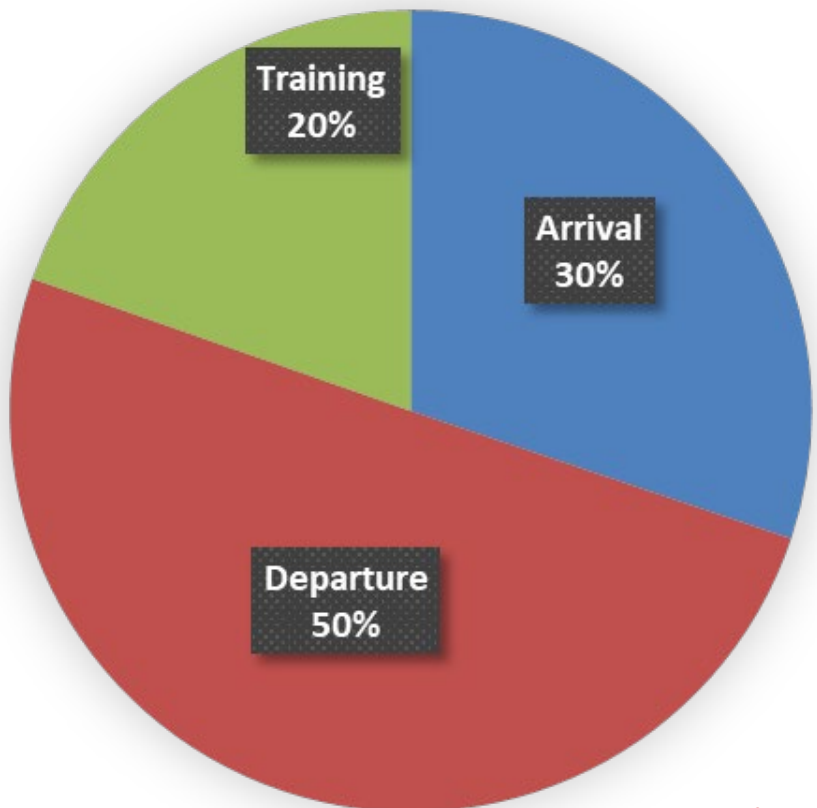
Complaints by Aircraft Type

July 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

FOLLOW UP ITEMS FOR EXECUTIVE/WORK PLAN COMMITTEE and INDIVIDUALS

From 2021-2023 Work Program for Executive/Work Plan Committee

2021-2023 PRIORITY TASKS

These two committees work together for the purpose of developing and seeing to the implementation of the Work Program.

1. Update CACNR Work Program biennially
2. Develop annual reports
3. Establish a roundtable training program
4. Revise meeting agendas to more closely align with the CACNR mission and work plans
5. Gain a better understanding of how noise complaints are reviewed and processed by airport staff. Review what noise complaint (and related) information is reported/presented to the Roundtable
6. **[Secondary Priority]** Engage local jurisdictions to proactively encourage compatibility between airport operations and land-use/zoning

EXECUTIVE AND WORK PLAN COMMITTEES from CACNR MEETING MINUTES

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**

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 such things as getting the orientation material on the website **WP and Community Outreach Committees 11/03/21**

INDIVIDUALS from CACNR MEETING MINUTES

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, 06/01/22 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**
4. Make additional appointment to committees. **Brad Pierce 04/06/22**
5. Donna Johnston putting together something about Centennial Airport for Greenwood Village – Donna to work with Mike Fronapfel (could share with all??) **Donna Johnston 06/01/22**

ALL COMMITTEES

1. Review recommendations from the Flight Schools Engagement Summary Report and Recommendations to see how they mesh with each committee's current work; outline how to proceed. **04/06/22**
2. See if any jurisdiction has any technological expertise it might 'donate' to CACNR. **04/06/22**
4. Review and address items on this list – it is getting too long. **04/06/22**

5. Get ideas for updating NAG to Samantha – **07/06/22****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.”)

FOLLOW UP ITEMS FOR COMMUNITY OUTREACH COMMITTEE

From 2021-2023 Work Program for Community Outreach Committee:

2021– 2023 PRIORITY TASKS

1. Website – Further improvements in content
2. Promote FAA participation/support of the Roundtable
 - FAA directly informing the community
 - Briefings to the public
 - Demonstrate collaboration with Airport > Roundtable > FAA
3. Expand outreach to elected officials (Briefings) and HOAs (Email)
4. Leverage social media as tool for community outreach
 - Social media strategy should focus on providing information to the public
 - Not intended as an outlet for noise complaints
 - Platforms to include NextDoor.com and Twitter

COMMUNITY OUTREACH COMMITTEE from CACNR MEETING MINUTES

1. Explore ways to utilize social media to reach the public. **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. **04/07/21**
3. Contact Trish Coberly to see if she would be willing to provide more assistance with maintaining the website. **04/06/22**
4. Follow up with Trish Coberly and website so updating can get going. Who is going to do what? \$30/hour – how many hours envisioned, etc. **06/01/22**
5. Reach out to Colorado Community Media, the various “Villagers,” and other local newspapers, possibly in cooperation with the airport’s new Manager of Communications/PIO, Chris Thompson, (also about the use of social media, the website with Trish Coberly, etc.) **08/03/22**
6. Discuss having a media focus night in September for a possible such event in October. **08/03/22**

ALL COMMITTEES

1. Review recommendations from the Flight Schools Engagement Summary Report and Recommendations to see how they mesh with each committee’s current work; outline how to proceed. **04/06/22**
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Fly Quiet Committee – August 2022 Monthly Report

Bill Wasmund, Chair

- Submitted to ACPAA feedback and suggestions received from the Fly Quiet Committee relating to the update of the Voluntary Noise Abatement Guidelines.
-

FOLLOW UP ITEMS FOR FLY QUIET COMMITTEE

From 2021-2023 Work Program for Fly Quiet Committee

2021 – 2023 PRIORITY TASKS

1. Expand industry engagement efforts to encourage awareness and support of APA Fly Quiet Program. This would include Fly Quiet briefings for key stakeholder groups to include air traffic control, flight schools, and pilots.
2. Identify potential modifications to APA airspace and/or flight procedures to reduce community noise impacts.
3. [Secondary Priority] Continue research into aircraft technologies to reduce noise, specifically, the use of composite propellers and noise mufflers for piston aircraft
4. [Secondary Priority] Establish incentive program to encourage pilots to overfly APA noise monitors and provide recognition for operations below a specified noise threshold
5. Airport staff briefing about Noise Complaint Process – *Unclear which committee would be responsible*

FLY QUIET COMMITTEE from CACNR Meeting Minutes

1. Continue work to identify location of 2nd noise abatement sign. **08/04/21** in progress
2. Continue exploring incentives for voluntary use of fly quiet procedures; **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. **11/03/21**
5. See if Noise Abatement Guidelines (NAG) should be updated **02/03/21**
6. Staff updates awaited for adding Noise Abatement Guidelines to Whispertrack's electronic tablet application. **with Rachel Keller now Mike Fronapfel and/or Samantha Blymyer 6/02/21**
7. Follow up on sign noise abatement message with new airport Manager of Communications – **06/01/22**
8. Create other messages for placement on the electronic sign on Peoria, so there will frequently be something new to catch the attention of the public as well as pilots. **08/03/33**
9. In cooperation with the Noise Monitor Committee and airport staff, explore how to close the loop between complaints and the available data, increase CACNR's knowledge of what is done with complaints and how they are or are not linked with offending aircraft, what might be done about communicating with offending aircraft so pilots can know if they are causing problems for those on the ground, are complainers 'satisfied' when they have asked for a response to their complaints, etc., and can there be more specific information provided to CACNR comparing complaints with the location involved. (in cooperation with Fly Quiet Committee and airport staff) **08/03/22**
10. Chair to meet with Chair of Noise Monitor Committee to identify/consider areas of mutual interest. **08/03 22**

ALL COMMITTEES

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To: Samantha Blymyer, ACPAA

Fr: CACNR Fly Quiet Committee

Subject: Voluntary Noise Abatement Guidelines, Feedback/Suggestions

Hi Samantha,

Below is the feedback and suggestions received from the Fly Quiet Committee relating to the Voluntary Noise Abatement Guidelines.

1. Revisions / additions to the Noise Sensitive Areas in dark green are in order. Since the Noise Abatement Guidelines were published in 2015, there are new areas of development in Lone Tree, Castle Rock and others. The Commissioners or their representatives for their jurisdictions should review the Voluntary Noise Abatement Guidelines and add any current noise sensitive areas.
2. Re-double our efforts to distribute the brochure by going to the FBOs & Flight Schools. We have not done that for a few years.
3. Publish the brochure electronically.
4. Consider adding additional routings for training aircraft to and from the practice areas to the Voluntary Noise Abatement Guidelines. Rather than the one route defined today, develop several additional routings that could be used randomly. The caller from Elizabeth states that all S.E. practice area training aircraft come down highway 83/86 and then turn over her house.
5. Distribution of the guidelines has always been a problem. Getting them into individuals who occasionally use the airport or uploading onto aviation information sites is still an issue. Investigate other avenues of distribution of the Voluntary Noise Abatement Guidelines in addition to Whispertrack.

The following is published by the Oakland Airport Authority Consider the creation of something similar. [OaklandAirport_HatsOff_RackCard_4x9_1021_web.pdf \(flyquietoak.com\)](#)

6. **TAKEOFF UP, NOT OVER** — Gain altitude as quickly as possible without compromising safety and begin takeoffs at the start of a runway, not at an intersection.

7. **REDUCE POWER SETTING WHEN FLYING LOW OR LANDING** — Consider using a reduced power setting if the flight is low or when approaching the airport. Practice descent to the runway at low power settings and with as few power changes as possible.
8. **AVOID ENGINE RUN-UPS NEAR HOMES** — Avoid performing engine run-ups at the ends of runways near housing developments.
9. **RETRACT LANDING GEAR ASAP** — Retract landing gear as soon as the aircraft achieves a positive rate of climb.
10. **KEEP FLIGHT PATTERNS TIGHT** — Fly a tight landing pattern to keep noise as close to the airport as possible.
11. **USE THE TOOLS** — If a PAPI or other visual approach guidance system is available, use it. These devices will indicate a safe glidepath and allow a smooth, quiet descent to the runway.
12. **ADJUSTING PROPELLERS IS LOUD** — If possible, do not adjust the propeller control for flat pitch on the downwind leg; instead, wait until short final.
13. **AVOID LOW-LEVEL/HIGH-POWER APPROACHES** — It creates high noise impacts and limits options in the event of engine failure.
14. **AVOID FLYING WHEN HUMANS ARE SLEEPING** — Between 10 p.m. and 7 a.m. Most aircraft noise complaints are registered by residents whose sleep has been disturbed by noisy, low-flying aircraft.

FOLLOW UP ITEMS FOR NOISE MONITORS COMMITTEE

From 2021-2023 Work Program for Noise Monitor Committee

2021 – 2023 PRIORITY TASKS

1. The Noise Monitor Committee and CACNR would benefit from getting a better understanding of what data is available through the NOMS (Noise and Operations Management) system and how it can be used in support of the CACNR Mission.
2. The Noise Monitor data should be used to help communities understand changes in noise and overflight activity due to changes in conditions such as: seasonal/flow changes, firefighting activities, special events. This can be used to better inform the community, especially of temporary changes.
3. Development of Fly Quiet Incentives for pilots and/or companies. Leverage noise monitor data in support of Fly Quiet incentives.
4. Noise complaint processing should include:
 - o Correlating complaints with specific noise events
 - o Identifying specific/single events resulting in multiple complaints

NOISE MONITOR COMMITTEE from CACNR MEETING MINUTES

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. **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
4. Once data is obtained from the portable monitor in Highlands Ranch, explore placing a permanent monitor in the southwest area. **08/03/22**
5. Explore how to close the loop between complaints and the available data, increase CACNR's knowledge of what is done with complaints and how they are or are not linked with offending aircraft, what might be done about communicating with offending aircraft so pilots can know if they are causing problems for those on the ground, are complainers 'satisfied' when they have asked for a response to their complaints, etc., and can there be more specific information provided to CACNR comparing complaints with the location involved. (in cooperation with Fly Quiet Committee and airport staff) **08/03/22**
6. Chair to meet with Chair of Fly Quiet Committee to consider/identify areas of mutual interest. **08/03/22**

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Samantha Blymyer

From: Candace Moon <cmoon@centennialco.gov>
Sent: Friday, August 5, 2022 10:30 AM
To: Samantha Blymyer; Matt Sturgeon; Elisha Thomas; Eric Eddy
Subject: Re: Update to Voluntary Noise Abatement Guidelines

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Ms. Blymyer,

After reviewing the noise abatement guidelines, I would suggest that we consider noise sensitive areas to include those areas that have the highest number of resident complaints about aircraft noise. These could be from our top complaint areas in Centennial, Greenwood Village, Castle Pines and other areas. This might be considered overlapping to some extent. However, it would help pilots to remember that they are flying over areas that are very noise sensitive and the pilots could make adjustments with safe procedures in mind.

Candace Moon | Council Member District 1
City of Centennial
13133 E. Arapahoe Rd., Centennial CO 80112
(303) 754-3354 - direct
cmoon@centennialco.gov

From: Samantha Blymyer <sblymyer@centennialairport.com>
Sent: Thursday, August 4, 2022 2:58 PM
To: cwarren-gully@arapahoegov.com <cwarren-gully@arapahoegov.com>; paulkrier@comcast.net <paulkrier@comcast.net>; evancolvin@gmail.com <evancolvin@gmail.com>; ALBIGGS@aol.com <ALBIGGS@aol.com>; Brad Pierce <bmpierce2@comcast.net>; a2const@hotmail.com <a2const@hotmail.com>; khancock@auroragov.org <khancock@auroragov.org>; Chris Eubanks <Chris.Eubanks@castlepinesco.gov>; Ben Price <ben.price@castlepinesco.gov>; lcavey@crgov.com <LCavey@crgov.com>; Sandy Vossler <SVossler@crgov.com>; Candace Moon <cmoon@centennialco.gov>; Don Sheehan <dsheehan@centennialco.gov>; ablum@cherryhillsvillage.com <ablum@cherryhillsvillage.com>; Afshin Safavi <afshin.safavi100@gmail.com>; pthompson@townoffoxfield.com <pthompson@townoffoxfield.com>; Lawrence_fd@msn.com <lawrence_fd@msn.com>; djohnston@greenwoodvillage.com <djohnston@greenwoodvillage.com>; Libby Barnacle <EBarnacle@greenwoodvillage.com>; andyjones@rocketmail.com <andyjones@rocketmail.com>; 'Andy Jones' <andyjones@highlandsranch.org>; reneeanderson11@outlook.com <reneeanderson11@outlook.com>; mike.anderson@cityoflonetree.com <mike.anderson@cityoflonetree.com>; Chuck Darnell <chuck.darnell@cityoflonetree.com>; Todd Hendreks <thendreks@parkeronline.org>; jahirshman@gmail.com <jahirshman@gmail.com>; dkuskie@modern-aviation.com <dkuskie@modern-aviation.com>; mstraka@mycaba.org <mstraka@mycaba.org>; bill.wasmund@gmail.com <bill.wasmund@gmail.com>; Chris Thompson <cthompson@centennialairport.com>
Subject: Update to Voluntary Noise Abatement Guidelines

Hello all,

As a reminder, Centennial Airport is currently accepting feedback and/or suggestions to changes you would like to see on an updated version of our Voluntary Noise Abatement Guidelines.

I have attached copies of our current Voluntary Noise Abatement Guidelines - Please submit all suggestions/feedback to me.

We appreciate all of the time and effort all parties have put into balancing the needs of the community with the needs of the airport!

Samantha Blymyer

Noise & Environmental Specialist

Centennial Airport | Arapahoe County Public Airport Authority

Email: sblymyer@centennialairport.com

Phone: (303)218-2922

FOLLOW UP ITEMS FOR AIRPORT STAFF from CACNR MEETING MINUTES

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 – now Mike/Samantha** 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**
13. Look to see what past information about the installation and programming of the noise monitors might still be available and useful. **Mike Fronapfel** 04/06/22
14. Provide CACNR with latest ambient noise levels. **Mike/Samantha** 04/06/22
15. If possible, Include CACNR Representatives when meetings are held with jurisdictions about establishing parallel noise contours. **Mike Fronapfel** 04/06/22
16. Notify CACNR when construction on runways will begin – **Airport Staff** 06/01/22
17. Working on getting data from portable noise monitor in Highland Ranch - **Airport Staff** 06/-1/22
18. Explore using Air Force Academy training boxes – **Airport Staff** 07/06/22

19. Share information about fuel sales with CACNR – **Airport Staff 07/06/22**
20. Airport staff would work with Randy Johnson to see if some solution might be found for placing a portable noise monitor in the Louviers area where the dog's barking would not interfere. **08/03/22**
21. Explore whether flight schools could coordinate their use of the practice areas so circling would not go on constantly for 2.5 – 3 hours at a time. Mike Fronapfel indicated this could be one of the items to be explored during a meeting with the flight schools, and identified the three areas used the most, with cross over happening at times. **08/03/22**
22. Identify planes noted in the 08/03/22 minutes over the Greenwood Village area and contact them to request a change in the noted activity. **08/03/22**
23. Staff to provide a case study every month showing how requests for responses to complaints are handled (suggested by M. Fronapfel). **08/03/22**
24. Replace the portable noise monitor in Highland Ranch for at least 2-3 months if at all possible. **08/03/22**
25. Provide CACNR with the most recent ambient noise level for each noise monitor. **08/03/22**
26. Resume the staff education sessions about the noise monitors and their capabilities, ambient noise levels for each, etc. **08/03/22**
27. In cooperation with Noise Monitor and Fly Quiet Committees, explore how to close the loop between complaints and the available data, increase CACNR's knowledge of what is done with complaints and how they are or are not linked with offending aircraft, what might be done about communicating with offending aircraft so pilots can know if they are causing problems for those on the ground, are complainers 'satisfied' when they have asked for a response to their complaints, etc., and can there be more specific information provided to CACNR comparing complaints with the location involved. **08/03/22**
28. Provide CACNR with specific dates touch and go runway will be closed. **08/03/22**
29. Provide tour of airport for CACNR Representatives. **08/03/22**

ALL COMMITTEES

1. Review recommendations from the Flight Schools Engagement Summary Report and Recommendations to see how they mesh with each committee's current work; outline how to proceed. **04/06/22**
2. See if any jurisdiction has any technological expertise it might 'donate' to CACNR. **04/06/22**
3. Review and address items on this list – it is getting too long. **04/06/22**
4. Get ideas for updating NAG to Samantha – All – **07/06/22**

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.”)



NextGen Advisory Committee (NAC) Meeting

AGENDA

Date: Tuesday, August 30, 2022
Time: 9:00 AM – 12:00 PM ET
Location: MITRE 1 Building Conference Center
7525 Colshire Drive, McLean, VA 22102-7539
Virtual Attendance Option Available

Item	Time (ET)	Topic
1.	9:00 – 9:10 10 Minutes	Opening of Meeting <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> <ul style="list-style-type: none">• Establish Quorum / Housekeeping Notes• Introduction of NAC Members• Official Statement of Designated Federal Official (DFO)• Public Statements
2.	9:10 – 9:25 15 Minutes	Chairman's Report <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> <ul style="list-style-type: none">• Former Meeting Minutes Approval• Chairman's Comments
3.	9:25 – 9:55 30 Minutes	FAA Report <i>Brad Mims, FAA Deputy Administrator, NAC Designated Federal Officer</i> <i>Paul Fontaine, Acting Assistant Administrator for NextGen, FAA</i> <i>Tim Arel, Acting ATO Chief Operating Officer, FAA</i> <i>Jodi Baker, Deputy Associate Administrator for Aviation Safety, FAA</i> <ul style="list-style-type: none">• FAA leadership will provide information on important FAA issues
4.	9:55 – 10:15 20 Minutes	Chairman's Roundtable <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> <ul style="list-style-type: none">• NAC Member Discussion
5.	10:15 – 10:25 10 Minutes	Break
6.	10:25 – 10:50 25 Minutes	FAA Topics <i>FAA Subject Matter Experts</i> <ul style="list-style-type: none">• FAA provides insights on NAC-related issues



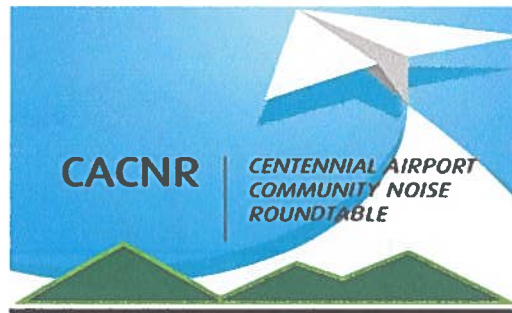
Item	Time (ET)	Topic
7.	10:50 – 11:50 60 Minutes	NAC Subcommittee (SC) Chairman's Report <i>Warren Christie, NAC SC Chairman, JetBlue Airways</i> <ul style="list-style-type: none">• NAC Task 21-1: MCL Update• NAC Tasks 18-4 & 18-5: Focus Area Risks / Mitigations<ul style="list-style-type: none">> Northeast Corridor (NEC), Performance Based Navigation (PBN), Surface & Data Sharing, & Data Communications (Data Comm)
8.	11:50 – 11:55 5 Minutes	Review of Action Items & Other Business <i>Kimberly Noonan, NAC Committee Manager, FAA</i>
9.	11:55 – 12:00 5 Minutes	Closing Comments & Adjourn <i>Brad Mims, FAA Deputy Administrator, NAC Designated Federal Officer</i> <i>Chip Childs, NAC Chairman, SkyWest Airlines</i> <ul style="list-style-type: none">• DFO comments• NAC Chair comments

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	Paul Krier	May 05 3:00 p.m.
June 01	June 16 (note 3 rd Thursday)	Don Kuskie, Alison writes	June 10
July 06	ACPAA not meeting	-----	include with Aug CACNR report
August 03	August 11	John Hirschman; Brad and Alison write	August 04 (see above) 3:00 p.m.
September 07	September 08	Paul Krier	Write 09/07 To Be Placed on Dias
October 05	October 13	Paul Krier	October 06 3:00 p.m.
November 02	November 10		November 03 3:00 p.m.
December 07	December 08		Write 12/07 to be placed on dais



August 23, 2022

The Honorable Jason Crow
1229 Longworth House Office Building
Washington, DC 20515

The Honorable Jason Crow
District Office
3300 S Parker Road, #100
Aurora, CO 80014

Re: Congressional Quiet Skies Caucus

Dear Congressman Crow,

Our names are Brad Pierce and Paul Krier and we would like to personally introduce ourselves.

Brad Pierce is the Chair of the Centennial Airport Community Noise Roundtable (CACNR), representing the City of Aurora. He is President of the National Organization to Insure a Sound-Controlled Environment (N.O.I.S.E.). He is also member of the FAA NextGen Advisory Committee.

Paul Krier is the Vice Chair of the Centennial Airport Community Noise Roundtable (CACNR), representing Arapahoe County.

On behalf of the Centennial Airport Community Noise Roundtable and Centennial Airport we are particularly concerned with the effects of aviation noise on the southeast Denver Metro area and we seek to find meaningful solutions to the noise impacts with stakeholders at the local, state and federal level. We also realize the positive impact that Centennial Airport has on our business community. We understand you are member of the Congressional Quiet Skies Caucus (QSC).

The Centennial Airport Noise Roundtable is a member of the National Organization to Insure a Sound-Controlled Environment (N.O.I.S.E.), which as an affiliate of the National League of Cities, is the oldest national advocacy group focused on community aviation noise impacts. Our group is thrilled that you are a member of the Congressional Quiet Skies Caucus.

Your leadership and support with the Caucus is vital for moving forward legislative and regulatory action that impact multiple sectors of policy including healthcare. There are several serious medical effects regarding high blood pressure, stress, and cardiovascular diseases. Furthermore, there are negative effects of ambient noise on the learning capabilities of children.

As the FAA continues to adopt new technologies for air traffic control, we as leaders must keep reducing aviation noise at the top of the priority list. The FAA must think not only about efficiencies in the sky but also impacts on the ground. We look forward to you contributing to our efforts.

Our request is that we schedule a meeting in your Aurora District office with you or your staff to discuss the Congressional Quiet Skies Caucus.

Respectfully,



Brad Pierce

- Chair, Centennial Airport Community Noise Roundtable
- President, National Organization to Insure a Sound-Controlled Environment (N.O.I.S.E.)



Paul Krier

- Vice Chair, Centennial Airport Community Noise Roundtable

cc: Emily Tranter, Executive Director N.O.I.S.E.

ATTENDANCE RECORD for 2022 - 2023 CACNR MEETINGS		2022	2022	2022	2022	2022	2022	2022	2022	2022	2023	2023	2023	MEMBER REPRESENTED	
		APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	%	TOTAL %
ARAPAHOE COUNTY	Carrie Warren-Gully	X	X	absent	X	X								80%	80%
	Vacant	-	-	absent	-	-								0%	
	Paul Krier	X	X	X	absent	X								80%	80%
	Evan Colvin	X	-	X	X	X								80%	
DOUGLAS COUNTY	Abe Laydon	-	-	-	absent	-								0%	80%
	Dan Avery	X	X	X	absent	X								80%	
	Alison Biggs	X	X	absent	X	X								80%	80%
	Mark Adams	-	-	absent	-	-								0%	
AURORA	Brad Pierce	X	X	X	X	X								100%	100%
	Karen Hancock	-	-	X	-	X								40%	
CASTLE PINES	Chris Eubanks	X	X	X	absent	X								80%	80%
	Ben Price	-	-	-	absent	-								0%	
CASTLE ROCK	Laura Cavey	absent	absent	absent	X	X								40%	40%
	Sandy Vossler	absent	absent	absent	-	-								0%	
CENTENNIAL	Candace Moon	X	X	absent	X	X								80%	80%
	Don Sheehan	-	-	absent	-	-								0%	
CHERRY HILLS VILLAGE	Al Blum	absent	absent	absent	absent	absent								0%	0%
	Afshin Safavi	absent	absent	absent	absent	absent								0%	
FOXFIELD	Pam Thompson	X	X	absent	absent	X								60%	60%
	Frank Lawrence	-	-	absent	absent	-								0%	
GREENWOOD VILLAGE	Donna Johnston	X	X	X	absent	X								80%	80%
	Libby Barnacle	-	-	-	absent	-								0%	
HIGHLANDS RANCH METROPOLITAN DISTRICT	Andy Jones	X	absent	absent	X	X								60%	60%
	Renee Anderson	-	absent	absent	-	-								0%	
LONE TREE	Mike Anderson	X	X	X	X	X								100%	100%
	Chuck Darnell	-	-	-	-	-								0%	
PARKER	Amy Holland/Todd Hendreks	absent	absent	absent	-	-								0%	20%
	Todd Hendreks/Carson Byerhof		absent	absent	absent	X								20%	
ACPAA	Mike Fronapfel	X	X	X	X	X								100%	100%
	Vacant	-	-	-	-	-								0%	
AOPA	Robert Doubek/John Hirshman	-	X	X	X	X								80%	100%
	John Hirshman/Vacant	X	X	X	X	-								80%	
CABA	Don Kuskie	X	X	X	X	X								100%	100%
	Mike Straka	-	-	-	-	-								0%	
CDOT AERONAUTICS DIVISION	Todd Green	absent	absent	absent	absent									0%	0%
	Vacant	-	-	-	-									0%	
FAA APA CONTROL TOWER	Jeff Holmes/Vacant	absent	-	absent	absent	absent								0%	20%
	Ron Curry	absent	X	absent	absent	absent								20%	
FAA DISTRICT OFFICE	John Bauer	absent	absent	absent	absent	absent								0%	0%
	John Sweeney	absent	absent	absent	absent	absent								0%	
FAA TRACON	Steve Martin	absent	absent	absent	absent	absent								0%	0%
	Bill Dunn	absent	absent	absent	absent	absent								0%	
WINGS OVER THE ROCKIES	Bill Wasmund	absent	X	X	X	absent								60%	60%
	Keith Palmer/Vacant	-	-	-	-	-								0%	
CACNR BYLAWS ADOPTED NOVEMBER 3, 2021:															
ARTICLE III.c. Members' Representatives and/or Alternates are expected to attend all regular and special meetings. If a Regular Member's Representative or Alternate does not attend at least 75% of such meetings annually in the period from April 1 through March 31, the Regular Member will be notified for potential appointment of a replacement(s).															
															8/29/2022