



## **CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE**

**October 5, 2022**

**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/Vacant	<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>	Jeff Lawton/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, September 7, 2022 – Alison Biggs, Secretary
- B. TREASURER'S REPORT, September 2022 – Andy Jones, Treasurer
- C. NOISE REPORT, August 2022 – Samantha Blymyer

4. **ITEMS REMOVED FROM CONSENT AGENDA:**

5. **COMMITTEE REPORTS:**

- A. EXECUTIVE/WORK PLAN COMMITTEE – Brad Pierce, Chair
  - 1. Report of 9/27/22 Meeting
    - 2023 Draft Budget
    - Focus of Future Meetings
    - Schedule for Future Meetings
    - Development of 2023-2025 Work Program
    - March 2023 Election of Officers
  - 2. Status of Follow Up Items
  - 3. Other
- B. COMMUNITY OUTREACH – Mike Anderson
  - 1. Status of Follow Up Items
  - 2. Other
- C. FLY QUIET – Don Kuskie for Bill Wasmund, Chair
  - 1. Written Report
  - 2. Status of Follow Up Items
  - 3. 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 – Jeff Lawton/Ron Curry
  
7. **OTHER REGULAR REPORTS:**
  - A. ACPAA – September 8, 2022, Paul Krier for CACNR
  - B. AIRPORT DIRECTOR'S REPORT – Mike Fronapfel
    1. Airport Activity
    2. Legislative
    3. Status of Follow Up Items
    4. Other
  - C. 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 – 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 – 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**

ATTENDANCE RECORD for 2022 - 2023 CACNR MEETINGS		2022	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	absent							67%	67%		
	Vacant	-	-	absent	-	-	absent							0%			
	Paul Krier	X	X	X	absent	X	X							83%		83%	
	Evan Colvin	X	-	X	X	X	X							83%			
DOUGLAS COUNTY	Abe Laydon	-	-	-	absent	-	absent							0%	67%		
	Dan Avery	X	X	X	absent	X	absent							67%			
	Alison Biggs	X	X	absent	X	X	X							83%		83%	
	Mark Adams	-	-	absent	-	-	-							0%			
AURORA	Brad Pierce	X	X	X	X	X	X							100%	100%		
	Karen Hancock	-	-	X	-	X	-							33%			
CASTLE PINES	Chris Eubanks	X	X	X	absent	X	X							83%	83%		
	Ben Price	-	-	-	absent	-	-							0%			
CASTLE ROCK	Laura Cavey	absent	absent	absent	X	X	absent							33%	33%		
	Sandy Vossler	absent	absent	absent	-	-	absent							0%			
CENTENNIAL	Candace Moon	X	X	absent	X	X	X							83%	83%		
	Don Sheehan	-	-	absent	-	-	-							0%			
CHERRY HILLS VILLAGE	Al Blum	absent	absent	absent	absent	absent	absent							0%	0%		
	Afshin Safavi	absent	absent	absent	absent	absent	absent							0%			
FOXFIELD	Pam Thompson	X	X	absent	absent	X	X							67%	67%		
	Frank Lawrence	-	-	absent	absent	-	-							0%			
GREENWOOD VILLAGE	Donna Johnston	X	X	X	absent	X	X							83%	83%		
	Libby Barnacle	-	-	-	absent	-	-							0%			
HIGHLANDS RANCH METROPOLITAN DISTRICT	Andy Jones	X	absent	absent	X	X	absent							50%	50%		
	Renee Anderson	-	absent	absent	-	-	absent							0%			
LONE TREE	Mike Anderson	X	X	X	X	X	X							100%	100%		
	Chuck Darnell	-	-	-	-	-	-							0%			
PARKER	Amy Holland/Todd Hendreks	absent	absent	absent	-	-	-							0%	33%		
	Todd Hendreks/Carson Byerhof	-	absent	absent	absent	X	X							33%			
ACPAA	Mike Fronapfel	X	X	X	X	X	X							100%	100%		
	Vacant	-	-	-	-	-	-							0%			
AOPA	Robert Doubek/John Hirshman	-	X	X	X	X	X							100%	100%		
	John Hirshman/Vacant	X	X	X	X	-	-							67%			
CABA	Don Kuskie	X	X	X	X	X	X							100%	100%		
	Mike Straka	-	-	-	-	-	-							0%			
CDOT AERONAUTICS DIVISION	Todd Green	absent	absent	absent	absent	absent	absent							0%	0%		
	Vacant	-	-	-	-	-	-							0%			
FAA APA CONTROL TOWER	Jeff Holmes/Vacant	absent	-	absent	absent	absent	absent							0%	17%		
	Ron Curry	absent	X	absent	absent	absent	absent							17%			
FAA DISTRICT OFFICE	John Bauer	absent	absent	absent	absent	absent	absent							0%	0%		
	John Sweeney	absent	absent	absent	absent	absent	absent							0%			
FAA TRACON	Steve Martin	absent	absent	absent	absent	absent	absent							0%	0%		
	Bill Dunn	absent	absent	absent	absent	absent	absent							0%			
WINGS OVER THE ROCKIES	Bill Wasmund	absent	X	X	X	absent	X							67%	67%		
	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).																	
															9/12/2022		



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE  
MINUTES

September 7, 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 6:40 p.m. by Chair Brad Pierce. The following were in attendance, and a quorum was present:

Arapahoe County:	Paul Krier	Greenwood Village:	Donna Johnston
Douglas County:	Alison Biggs	Lone Tree:	Mike Anderson
Aurora:	Brad Pierce	Parker:	Carson Byehof
Castle Pines:	Chris Eubanks	ACPAA:	Mike Fronapfel
Centennial:	Candace Moon	AOPA:	John Hirshman
Foxfield:	Pam Thompson	CABA:	Don Kuskie
		Wings Over the Rockies:	Bill Wasmund

Others in attendance were Arapahoe County Alternate Representative Evan Colvin; and ACPAA staff Samantha Blymyer, Chris Thompson, and Lauren Wiarda.

Those absent were:

Arapahoe County:	Carrie Warren-Gully/Vacant	Highlands Ranch Metro:	Andy Jones
Douglas County:	Abe Laydon/Dan Avery	CDOT Aeronautics Div:	Todd Green/Vacant
Castle Rock:	Laura Cavey	FAA APA Control Tower:	Vacant/Ron Curry
Cherry Hills Village:	Al Blum/Afshin Safavi	FAA District Office:	John Bauer/John Sweeney

2. **PUBLIC COMMENT:**

A. **VIRTUAL/IN-PERSON MEETING ATTENDEES** – Bette Todd of Greenwood Village near Orchard and Dayton, reported noticing a major change in noise this summer, primarily from training flights, many of which have been circling north of Orchard, 1-3 minutes apart on a continuous basis. There have been twin engine flights which can be heard for a long time, and it seemed there was no effort to say in the designated area. The continuous loud noise disturbed even thought patterns. She also noted it would be nice to be able to report numerous complaints on the website, rather than only one at a time.

Mike Fronapfel responded that there have been problems with pattern traffic since the mid-air collision and the FAA's ruling about runway usage since that time. There is a new manager at the control tower now, and there will be exploration with him of what might be done about better managing traffic. The flight school meetings will also provide a forum for continuing discussions of how they might help out with the noise problems on the ground. It was noted that multiple complaints can be made at a time with one telephone call to the airport's noise complaint hotline – 303-790-4709.

Todd suggested that CACNR might consider looking at noise and complaint trends related to each monitor and/or jurisdiction, for at least a few months and perhaps years.

Randy Johnson of Louviers reported noise had gotten worse since the last meeting and provided numbers of offending flights for various time frames: 39 in June; 104 in July; and 212 in August. There seemed to be more training flights to the west; he records flights directly over his house and Louviers. Sometimes he sees planes, but WebTrack does not show them.

Brad Pierce noted concern that we now had two areas providing reports of noise getting worse rather than better. Both seemed primarily related to training, so the next flight school meeting needs to be apprised of the problem, The closure of the Touch and go runway might provide some help, but that would remain to be seen.

B. **FROM CACNR EMAIL ADDRESS** – An email had been received with the following:

"We live in Franktown and there are several small airplanes constantly buzzing our area. They are loud and begin early. We can't sleep. We have lost the right to not be harassed by these flight training schools. It is constant. All day. Late into the evening.

"Is there no way to restrict the times they fly? Our livestock are frightened by the loud noise of these airplanes. The quiet hikes at Castlewood Canyon are destroyed for the public by these planes flying over. We live out here to avoid the noise. Something needs to change. Please advise."

The email had been responded to by the Secretary; not much help could be promised. Question was asked if the same planes were involved in any of the kinds of problems reported here, or planes from any one flight school. Mike Fronapfel indicated staff would explore that idea.

3. **CONSENT AGENDA:**

**A. & B. – DRAFT MINUTES AND TREASURER’S REPORT** - The Consent Agenda included the August 3, 2022 draft CACNR minutes; and a Treasurer’s Report from 09/01/22 which showed a balance of \$24,310.30. The Consent Agenda also included the July 2022 Noise Report. On the motion of Mike Anderson, duly seconded, the Consent Agenda was approved.

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

<b>July Total Operations:</b>	<b>31,089</b>	<b>July Total Local Operations:</b>	<b>15,267</b>
<b>Year to Date Total Operations:</b>	<b>177,178</b>	<b>Year to Date Local Operations:</b>	<b>78,820</b>

**641 Complaints from 31,089 Total Operations in July**

**July Noise Events: Note Noise Monitor #1 – Golf Course – was down the whole month of July**

<u>July Totals:</u>	<u>July 60 – 69 db:</u>	<u>July 70 – 79 db:</u>	<u>July 80 – 89 db:</u>
7,897 Meridian	6,072 Meridian	1,767 Meridian	586 Airport East
6,710 State Park	1,854 State Park	896 Airport East	55 Meridian
2,674 Airport East	1,324 Parker	850 State Park	13 State Park
1,482 Parker	1,143 Airport East	154 Parker	12 Greenwood Village
1,162 Castle Rock	1,122 Castle Rock	111 Grandview Estates	8 Grandview Estates
1,109 Grandview Estates	988 Grandview Estates	85 Greenwood Village	4 Lone Tree
1,031 Greenwood Village	937 Greenwood Village	64 Hunters Hill	3 Hunters Hill
669 Lone Tree	613 Lone Tree	52 Lone Tree	3 Parker
523 Hunters Hill	454 Hunters Hill	40 Castle Rock	1 Castle Pines
267 Castle Pines	255 Castle Pines	13 Sagebrush Park	1 Sagebrush Park
159 Sagebrush Park	145 Sagebrush Park	11 Castle Pines	0 Castle Rock
0 Golf Course	0 Golf Course	0 Golf Course	0 Golf Course

**July Noise events in the 90+ decibel range were** Airport East – 49    Grandview Estates – 2    Parker – 1  
 Meridian – 3    Hunters Hill – 2    State Park – 1

**July Noise Complaints(641) and Numbers of Households (73):**

**YTD Complaints & Number of Households:**

(“Other” complaints and numbers of households come from Boulder, Englewood, and Littleton)

<u>Noise Complaints:</u>	<u>Number of Households:</u>	<u>Noise Complaints:</u>	<u>Households:</u>
182 Greenwood Village (28%)	25 UAC (34%)	945 Greenwood Village	39 UAC
153 Unincorporated Arapahoe Cnty (24%)	12 Greenwood Village (16%)	675 Centennial	22 Greenwood Village
101 Centennial (16%)	7 Lone Tree (10%)	629 UAC	15 Other
75 Castle Rock (12%)	6 Other (8%)	345 Castle Rock	12 UDC
44 Unincorporated Douglas County (7%)	6 UDC (8%)	175 Other	9 Lone Tree
34 Other (5%)	5 Denver (7%)	144 UDC	8 Centennial
16 Highlands Ranch (2.5%)	4 Centennial (5%)	96 Aurora	6 Denver
13 Aurora (2%)	2 Castle Rock (3%)	53 Highlands Ranch	6 Parker
11 Lone Tree (1.7%)	2 Highlands Ranch (3%)	31 Lone Tree	5 Aurora
9 Denver (1.4%)	2 Parker (3%)	28 Parker	5 Castle Rock
2 Parker (0.3%)	1 Aurora (1%)	25 Denver	5 Highlands Ranch
1 Castle Pines (0.16%)	1 Castle Pines (1%)	15 Castle Pines	3 Castle Pines
0 Cherry Hills Village	0 Cherry Hills Village	0 Cherry Hills Village	0 Cherry Hills Village

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

Greenwood Village – 762 (24%)	UAC – 251 (8%)
Centennial – 568 (18%)	UAC – 165 (5%)
Castle Rock – 293 (9%)	

**In July, 55 responses were requested from 641 noise complaints**, with 29 of those requests made by email (53%), and 26 made by telephone (47%).

**In July, 611 complaints were made about daytime flights** (7:00 a.m. – 9:59 p.m.) – 95%.  
 30 complaints were made about **nighttime flights** (10:00 p.m. – 6:59 a.m.) – 5%.

**In July, props** accounted for **71% of the complaints by aircraft type**; jets accounted for **29% of the complaints**; and less than **1% were about helicopters**.

**In July, departures** were responsible for **50% of the complaints**. **Arrivals** were responsible for **30% of the complaints**, and **Training was responsible for 20% of the complaints**.

**The Monthly and 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** – The Chair had appointed Chris Eubanks, Evan Colvin, and Carson Byerhof to the Community Outreach Committee. All Committees were requested to look at their lists of Follow-Up Items and bring them up to date. EC/WP Liaisons would help as appropriate.

B. **COMMUNITY OUTREACH** – On behalf of the committee, Mike Anderson welcomed the new members with open arms. He also welcomed Chris Thompson and indicated they looked forward to working with airport staff on the website project. Brad Pierce reported the web site and domain names had been renewed until August 30, 2025.

C. **FLY QUIET** – Suggestions for updating the Noise Abatement Guidelines had been submitted to airport staff. The committee continues to work on obtaining information from similar airports as to how they deal with noise complaints.

D. **NOISE MONITORS** – Candace Moon reported the portable noise monitor had been replaced in the Highlands Ranch area and began collecting data on August 30. It is hoped CACNR would receive some data from this portable monitor beginning in October and monthly thereafter..

6. **FAA REPORTS:**

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

7. **OTHER REGULAR MONTHLY REPORTS:**

A. **ACPAA** – John Hirshman reported there had been nothing of note related to noise at the August ACPAA meeting. Question was asked if CACNR should ask ACPAA if it wanted to send a liaison to CACNR meetings, as its Treasurer Bob Doubek had been serving in that capacity as well as representing AOPA for over 20 years. It was not really clear if ACPAA even remembered that Doubek was doing that. ACPAA could be asked its pleasure, or Mike Fronapfel might serve as the liaison.

B. **AIRPORT DIRECTOR'S REPORT** –

1. Airport Activity: Mike Fronapfel thanked CACNR for its enthusiastic attendance at the airport tour earlier today. Tours have been done for Lone Tree and Greenwood Village, and one was being scheduled for the city of Centennial. Those who participated thanked Fronapfel and staff for the tour and indicated there had been much good information shared during it.

Several other items were reported under this heading. Operations and sales of avgas and jet fuel had increased again from last year. Jeff Lawton had been appointed the most recent manager of the airport's control tower. Construction was beginning on the many new hangers being added at the airport. The use of them may result in increased jet traffic and noise. Several charitable events were being or had been held at the airport or with airport involvement. Work on the touch and go runway was expected to be completed about October 10, 2022. Staff was again requested to provide a press release about this project so CACNR Representatives could share the information with their communities, and Mike Fronapfel indicated that would be done.

The September ACPAA meeting was being shortened due to scheduling conflicts with other meetings, so CACNR's reports for September and October would be given in October, by Paul Krier.

2. Legislative – Fronapfel indicated he was working with Senator Michael Bennett and Congressman Jason Crow about obtaining future funding to replace the control tower. Some work is being done now, on location and design, and it appears it would be a \$35 million project.

C. **NEXTGEN ADVISORY COMMITTEE** – Brad Pierce had provided an agenda from the 8/30/22 meeting of this group and indicated there had been nothing particular related to noise at the meeting.

D. **FLIGHT SCHOOLS** – None of the flight schools listed on the agenda had sent a representative, so there were no reports. They are always welcome at CACNR meetings, and will have a place on the agenda.

8. **OLD BUSINESS:**

A. **TO REPRESENT CACNR AT 2022 ACPAA MEETINGS** – Paul Krier volunteered to do the September and October dates. Still to be filled were November 10, and December 8.

B. **CONGRESSIONAL QUIET SKIES CAUCUS** – The letter Brad Pierce and Paul Krier had written to Jason Crow about the Caucus, and requesting a meeting with him or his staff, was shared.

9. **NEW BUSINESS:**

A. **INFORMATION SHARING** – The dates for upcoming UC Davis Aviation Noise and Emissions Symposiums have been announced. In 2023, the dates will be May 1 – 3 and the location will again be the UC Davis Campus. In 2024, the dates will be March 4 – 6, and the location will be the Hotel Zoso in downtown Palm Springs, California.

It was noted that Karen Hancock, Alternate Representative for Aurora, was retiring. She was sincerely thanked for sharing all of her knowledge and expertise with CACNR for many years, and wished well in her future activities.

Donna Johnston indicated the airport in Morristown, New Jersey was also dealing with flight school issues and might have some ideas which CACNR could consider. Mike Fronapfel responded that he would look into it.

10. **PUBLIC COMMENT:** None

11. **NEXT MEETINGS:**

- |                   |                   |   |
|-------------------|-------------------|---|
| A. <b>CACNR</b> – | 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. <b>ACPAA</b> – | 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. **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
<b>INCOME:</b>		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	
<b>TOTAL INCOME:</b>	<b>\$ 28,015.75</b>	<b>\$ 28,015.75</b>	
<b>EXPENDITURES:</b>			
<b>WORK PROGRAM:</b>			
COMMUNITY OUTREACH	\$ 2,000.00	\$ 348.15	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
<b>EDUCATION</b>			
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.
<b>TOTAL EXPENDITURES:</b>	<b>\$ 28,015.75</b>	<b>\$ 4,053.60</b>	
<b>CURRENT BALANCE</b>		<b>\$ 23,962.15</b>	
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



**August 2022**

# 1 TABLE OF CONTENTS

---

- 2 Definitions..... 2
- 3 About APA’s Noise Monitoring Program ..... 3
- 4 About WebTrak™ ..... 4
- 5 Operations Statistics ..... 5
- 6 Noise Monitor Reports..... 6
- 7 Noise Complaint Statistics.....7-9
- 8 Complaint Map ..... 10
- 9 Radar Track Density Map ..... 11
- 10 Notes and Disclaimer ..... 12

**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<sub>max</sub>)** – The peak noise level for a single noise event.

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

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

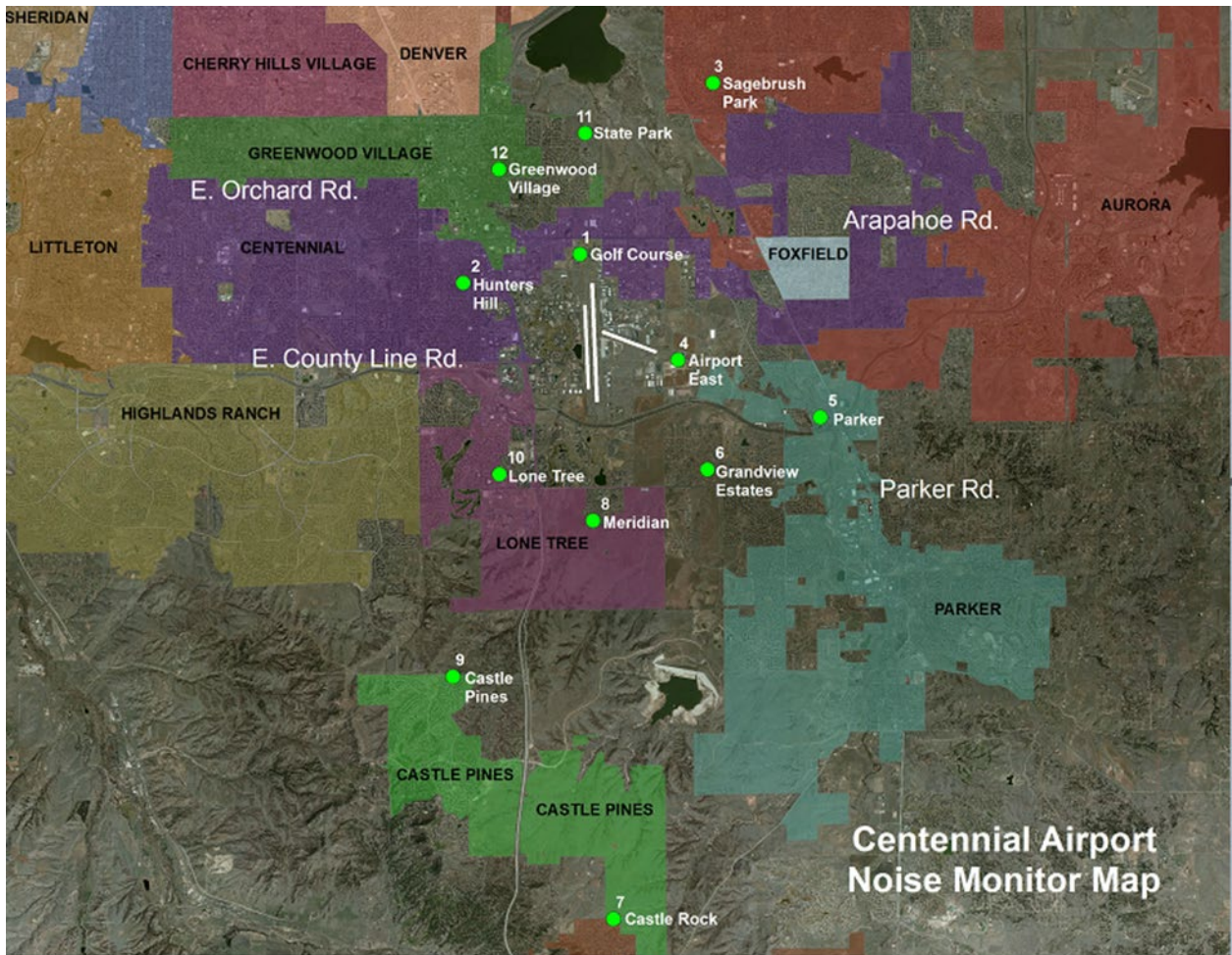
**Visual Flight Rules (VFR)** – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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

# Overview

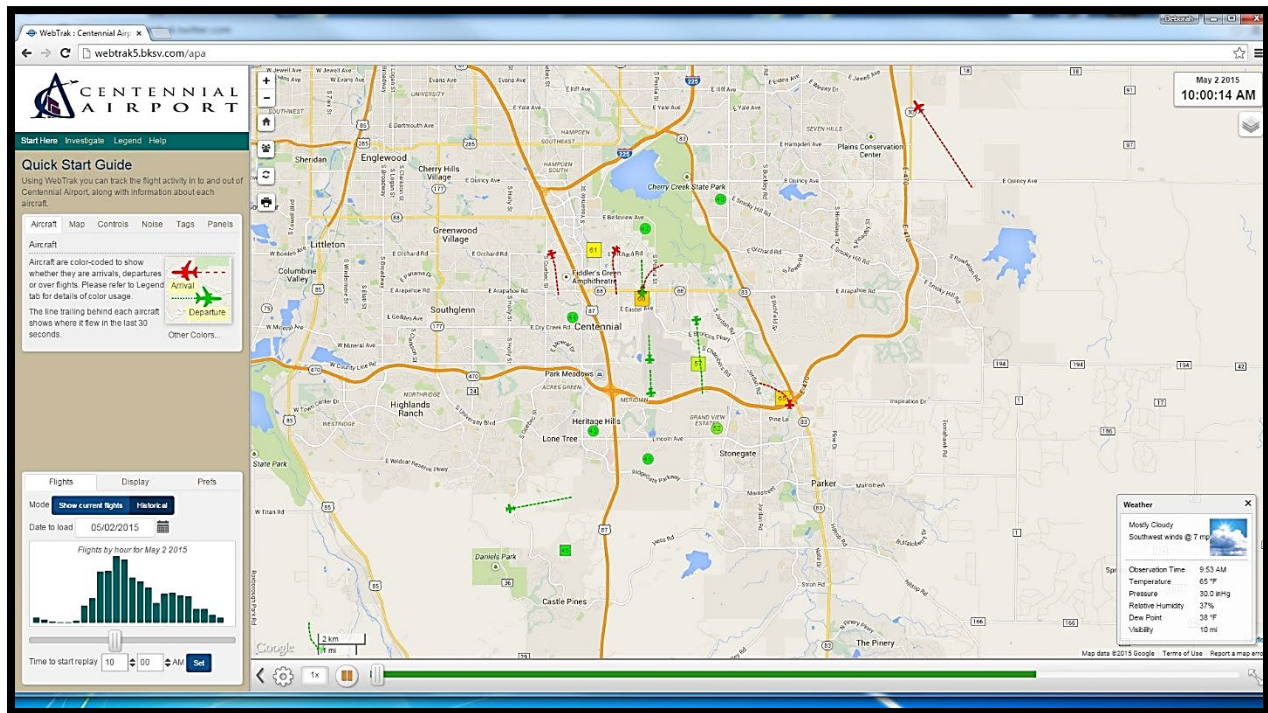
## 3 ABOUT APA'S NOISE MONITORING PROGRAM

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



## 4 ABOUT WEBTRAK™

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



### How to participate

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

#### APA WebTrak:

[https://webtrak.emsbk.com/apa?fbclid=IwAR1xnXwQ2sVwisSZ\\_szUAIHFtyYBNI\\_ZTACOI1PF7ZSH8PPbBxORnnaidUUE](https://webtrak.emsbk.com/apa?fbclid=IwAR1xnXwQ2sVwisSZ_szUAIHFtyYBNI_ZTACOI1PF7ZSH8PPbBxORnnaidUUE)

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

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

#### APA Noise Hotline:

303-790-4709

## 5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR 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	2,726	3,985	176	6,887	1,113	7,567	183	8,863	14,500	43	14,543
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	20,649	29,714	1,343	51,706	9,757	50,289	990	61,036	92,984	379	93,363

	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	1	3	0	4	36	97	25	158	August	30,455
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	20	38	7	65	331	1,033	99	1,463	Y-T-D Totals	207,633

### 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

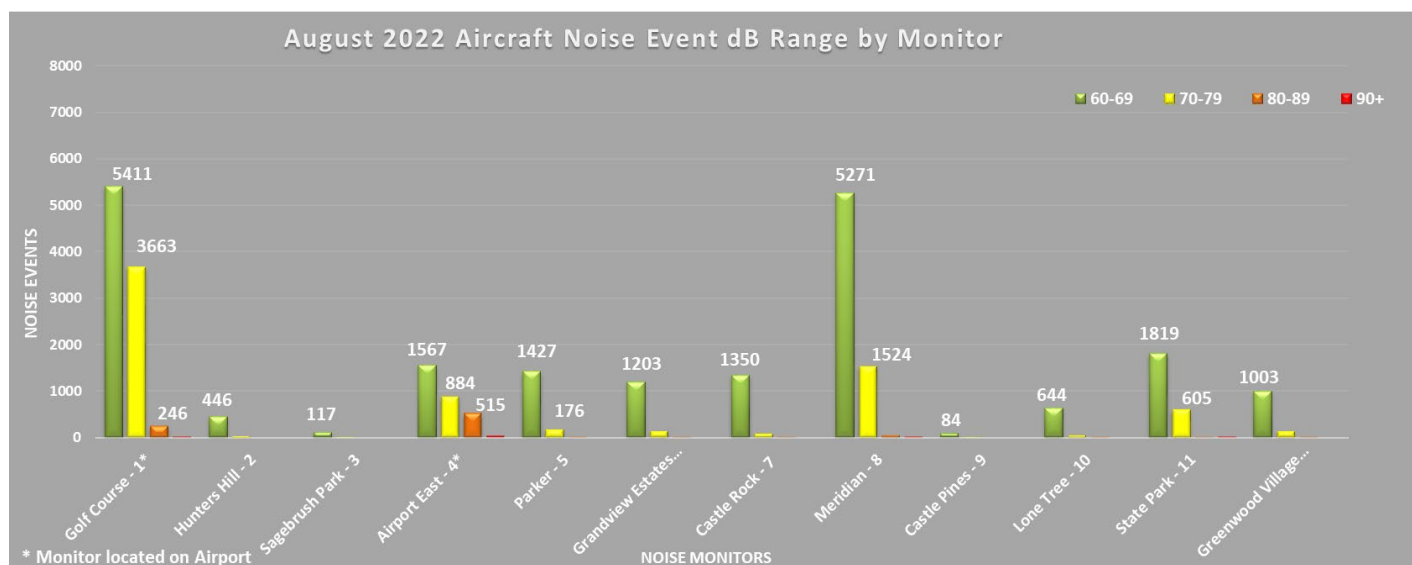
The following data displays the amount and associated decibel level of aircraft noise events at a given monitor. An aircraft noise event must contain the following characteristics:

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.

August 2022 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	3251	4722	271	29	8273
Hunters Hill- 2	576	48	4	0	628
Sagebrush Park- 3	157	4	0	0	161
Airport East- 4*	1323	1019	630	46	3018
Parker- 5	1732	238	2	0	1972
Grandview Estates- 6	1437	180	8	0	1625
Castle Rock- 7	1094	72	10	1	1177
Meridian- 8	6421	1920	60	9	8410
Castle Pines- 9	238	8	0	0	246
Lone Tree- 10	789	68	7	0	864
State Park- 11	1975	1022	18	8	3023
Greenwood Village- 12	1024	135	14	0	1173
<b>Totals</b>	<b>20017</b>	<b>9436</b>	<b>1024</b>	<b>93</b>	<b>30570</b>

\*Monitor located on Airport



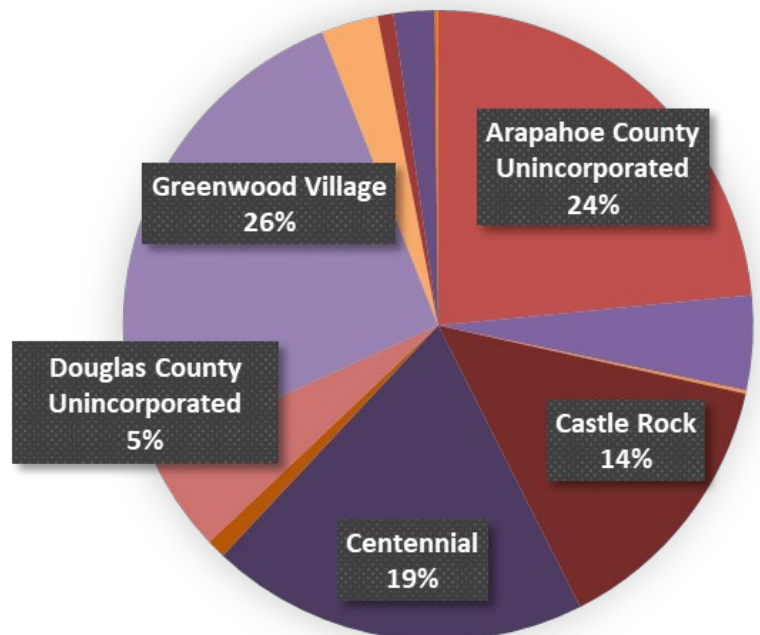
## 7 AUGUST 2022 NOISE COMPLAINT STATISTICS

In August, Centennial Airport received 618 complaints from 88 households.

August Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	Census 2018
Arapahoe County Unincorporated	145	32	774	58	83,764
Aurora	30	2	126	6	374,114
Castle Pines	1	1	16	3	10,507
Castle Rock	87	4	432	6	64,827
Centennial	120	4	795	9	110,831
Cherry Hills Village	0	0	0	0	6,650
Denver	6	4	31	9	716,492
Douglas County Unincorporated	33	9	177	17	100,536*
Greenwood Village	159	19	1104	35	15,801
Highlands Ranch	18	2	71	5	105,264
Lone Tree	5	5	36	12	14,653
Parker	1	1	29	7	55,636
Other	13	5	188	18	UNK
<b>Total</b>	<b>618</b>	<b>88</b>	<b>3779</b>	<b>185</b>	<b>1,659,075</b>

\*Douglas County Unincorporated Population with Highlands Ranch Removed

Complaints per Municipality



August 2022 Noise Complaint Responses Completed	
Email	30
Phone	30
<b>Total</b>	<b>60</b>

Time Complaint Received	Aug
Day Hours (7:00 am - 9:59pm)	574
Night Hours (10:00 pm - 6:59 am)	44
<b>TOTAL</b>	<b>618</b>



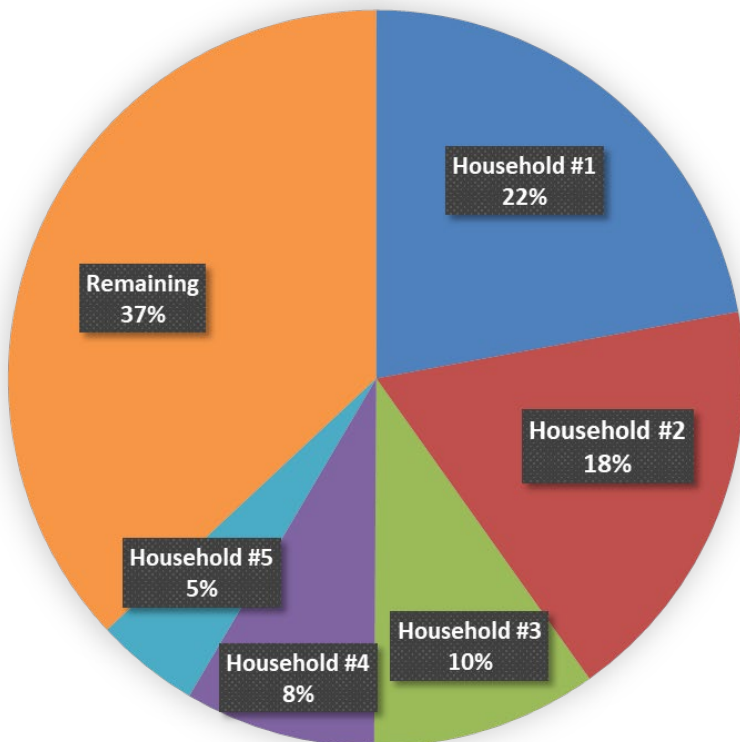
## Current 12 Month Trend



## Previous Year 13 Month Trend

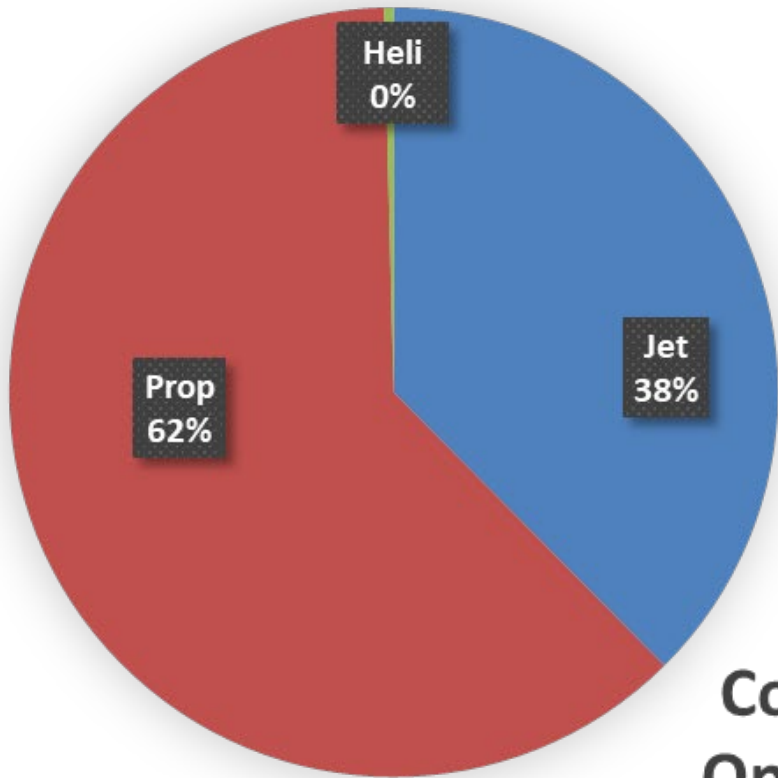


## Top 5 Household Complaints YTD



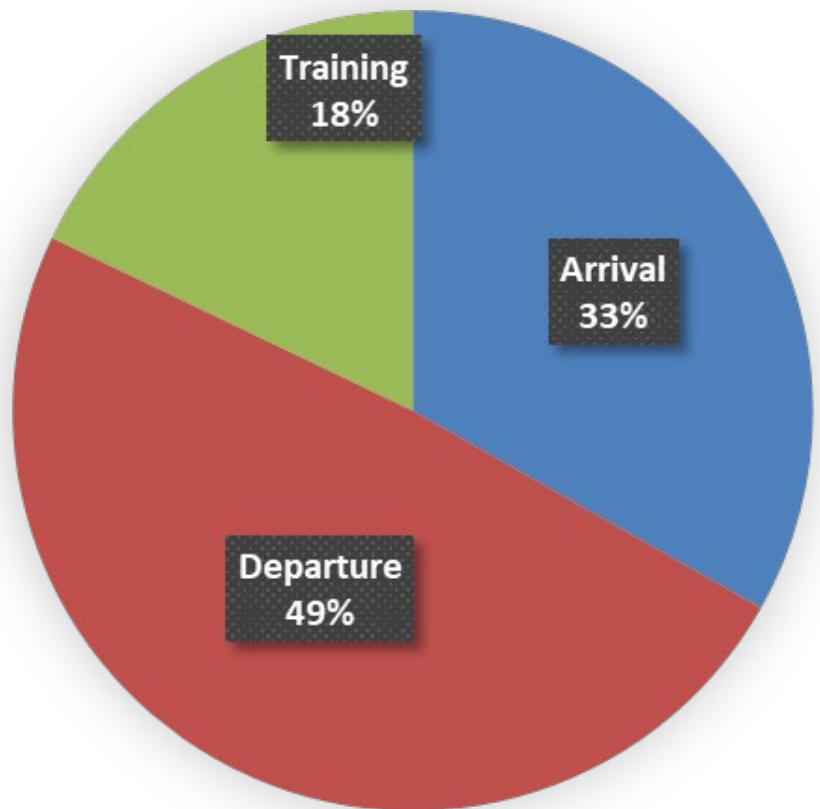
Top 5 Household Complaints YTD		
Household	Complaints	Households
Household #1	835	Greenwood Village
Household #2	683	Centennial
Household #3	375	Castle Rock
Household #4	317	Arapahoe County Unincorporated
Household #5	173	Arapahoe County Unincorporated
Remaining	1,396	
<b>Total</b>	<b>3,779</b>	

### Complaints by Aircraft Type

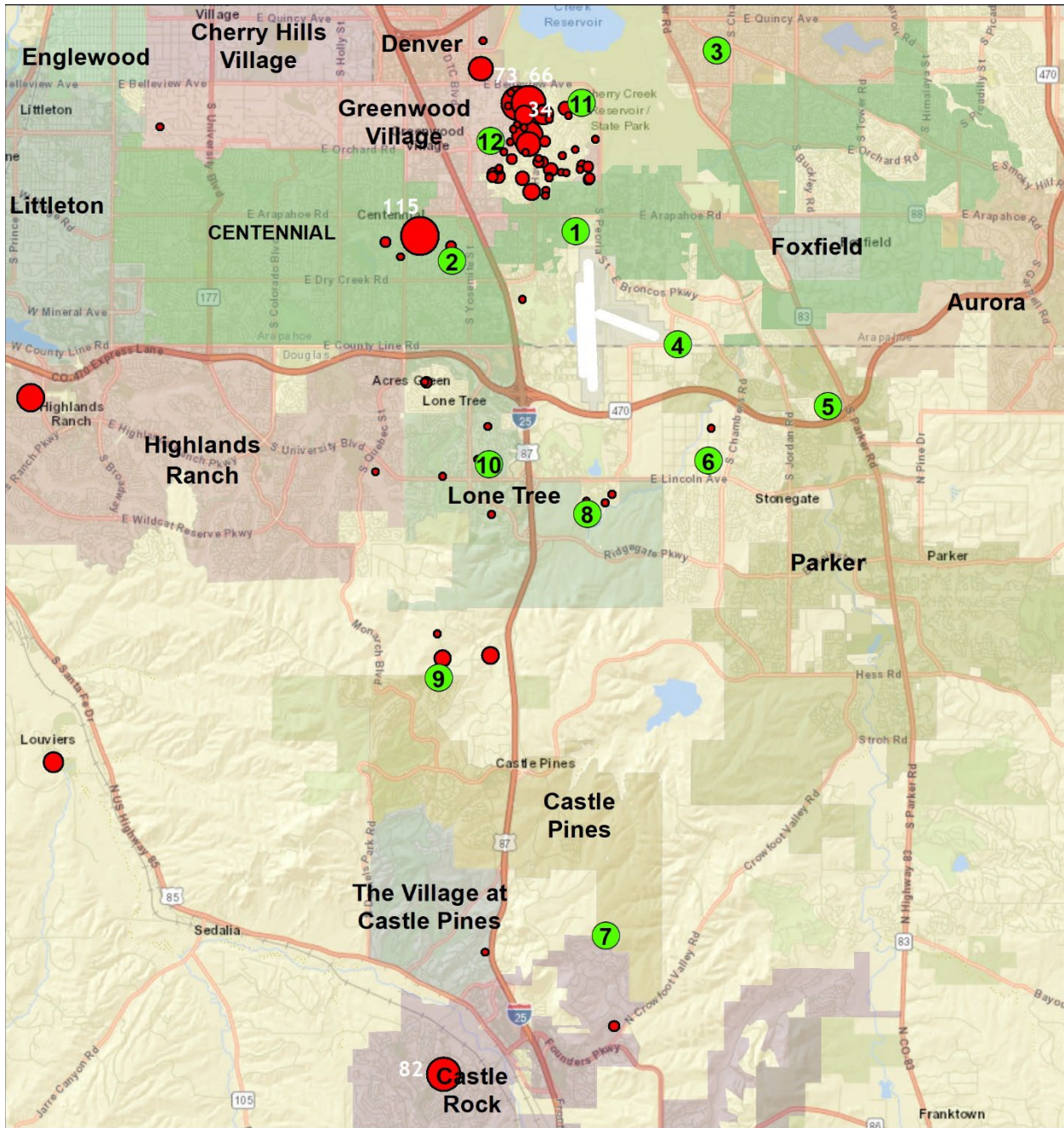


\*#1 Household Removed

### Complaints by Operation Type



# 8 CENTENNIAL AIRPORT COMPLAINT MAP



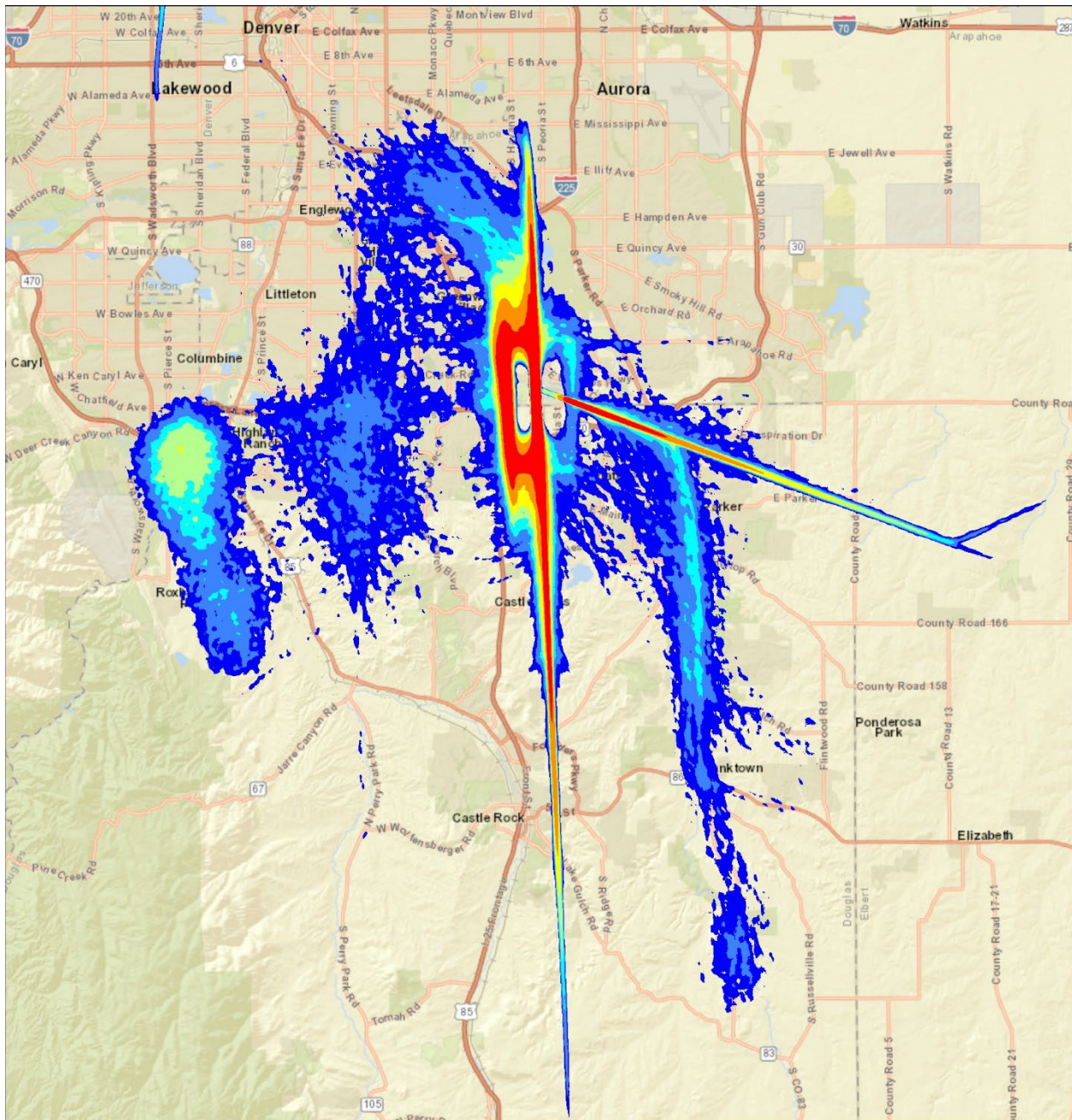
**August 2022 Complaints**



## 9 CENTENNIAL AIRPORT RADAR TRACK DENSITY MAP

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

**August 2022 Flight Tracks associated with Centennial Airport**



Lower Density Traffic Higher Density Traffic

## 10 NOTES AND DISCLAIMER

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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](http://www.centennialairport.com)

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE		2023 DRAFT BUDGET - presented October 5, 2022			
	2022 CACNR BUDGET	2022 ACTUAL	2023 DRAFT BUDGET	NOTES	
<b>INCOME:</b>					
CARRY OVER FROM PRIOR YEAR	\$ 4,765.75	\$ 4,765.75	\$ 23,000.00	estimated carry over from prior year - exact amount to be determined	
ACPAA	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00		
CACNR REGULAR MEMBERS	\$ 13,250.00	\$ 13,250.00	\$ -		
<b>TOTAL INCOME:</b>	<b>\$ 28,015.75</b>	<b>\$ 28,015.75</b>	<b>\$ 33,000.00</b>		
<b>EXPENDITURES:</b>					
<b>WORK PROGRAM:</b>					
COMMUNITY OUTREACH	\$ 2,000	\$ 348.15	\$ 2,000	WebsiteUpdating and Maintenance	
			\$ 5,000	MediaOutreach Project	
FLY QUIET	\$ 1,000	\$ -	\$ 1,000	Placeholder for Projects tbd	
NOISE MONITOR	\$ 1,000	\$ -	\$ 1,000	Exploration of desired data and software for 2024	
EXECUTIVE/WORK PLAN	\$ 500	\$ -	\$ 500	Orientation Manual, Annual Report	
<b>EDUCATION</b>					
2 Reps to UC Davis Symposium	\$ 5,000	\$ 2,180.45	\$ 5,000	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	\$ -	\$ 4,000	based on prior years on-site conferences	
CONSULTATION/ TASK SUPPORT	\$ 2,000	\$ 525.00	\$ 3,000	Projects with Jason Schwartz	
MEMBERSHIP DUES	\$ 1,000	\$ 1,000.00	\$ 1,000	N.O.I.S.E.	
ADMINISTRATIVE	\$ 1,000	\$ -	\$ 1,000	Part time secretarial assistance	
	\$ 1,000	\$ -	\$ -	Legal	
RESERVE	\$ 9,515.75		\$ 9,500.00	for presently unidentified and unanticipated expenses and/or additional CACNR activities consistent with the approved Work Plan.	
<b>TOTAL EXPENDITURES:</b>	<b>\$ 28,015.75</b>	<b>\$ 4,053.60</b>	<b>\$ 33,000.00</b>		
CARRY OVER TO 2023	\$ -	\$ 23,962.15	\$ -	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."					



**2022 CACNR COMMITTEES– as of September 28, 2022**

**COMMUNITY OUTREACH:**

\*\*\*\*\* , Chair  
Mike Anderson (Lone Tree)  
Renee Anderson (HRMD Alternate)  
Carson Byerhof, (Parker)  
Evan Colvin (Arapahoe County)  
Chris Eubanks (Castle Pines)  
Todd Hendreks (Parker)  
Pam Thompson (Foxfield)  
Andy Jones, EC/Work Plan Committee Liaison

**EXECUTIVE/WORK PLAN COMMITTEE:**

Brad Pierce, Chair (Aurora)  
Paul Krier, Vice Chair (Arapahoe County)  
Andy Jones, Treasurer (HRMD)  
Alison Biggs, Secretary (Douglas County)

**FLY QUIET:**

Bill Wasmund, Chair (WOTR)  
Karen Blilie (Other)  
Robert Doubek (Other)  
Donna Johnston (Greenwood Village)  
Don Kuskie (CABA)  
Mike Straka (CABA Alternate)  
Carrie Warren-Gully (Arapahoe County)  
Brad Pierce, EC/Work Plan Committee Liaison

**NOISE MONITORS:**

Candace Moon, Chair (Centennial)  
Mark Adams (Douglas County Alternate)  
Dan Avery (Douglas County Alternate)  
Libby Barnacle (Greenwood Village)  
John Hirshman (AOPA Alternate)  
Frank Lawrence (Foxfield Alternate)  
Paul Krier, EC/Work Plan Committee Liaison

Samantha Blymyer, ACPAA Staff

**Committee Assignments Pending:**

Al Blum (Cherry Hill Village)  
Laura Cavey (Castle Rock)  
Chuck Darnell (Lone Tree Alternate)  
Ben Price (Castle Pines Alternate)

Abe Laydon (Douglas County)  
Afshin Safavi (Cherry Hills Village Alternate)  
Don Sheehan (Centennial Alternate)  
Sandy Vossler (Castle Rock Alternate)

**Others:**

John Bauer, FAA District Office Representative  
Ron Curry, FAA APA Control Tower Alternate Rep.  
Bill Dunn, FAA TRACON Alternate Representative

Todd Green, C-DOT Representative  
Steve Martin, FAA TRACON Rep. Rep  
John Sweeney, FAA District Office, Alt. Rep.



# Centennial Airport Community Noise Roundtable

## 2021-2022 Work Program

Adopted March 3, 2021

(Membership Updated February and May, 2021)

### CACNR MEMBERSHIP

Arapahoe County

Douglas County

City of Aurora

City of Castle Pines

Town of Castle Rock

City of Centennial

City of Cherry Hills Village

Highlands Ranch Metropolitan District (added 5/5/21)

Town of Foxfield

City of Greenwood Village

City of Lone Tree

Town of Parker

Aircraft Owners and Pilots Association

Arapahoe County Public Airport Authority

Colorado Aviation Business Association

Colorado Department of Transportation

Aeronautics Division

FAA Centennial Airport Control Tower

FAA District Office

FAA TRACON

Wings Over the Rockies (added 2/3/21)

The Mission, Vision, and Values of the Centennial Airport Community Noise Roundtable (page 2) are implemented, in part, through the efforts of CACNR's committees, as described on the following pages.



**VISION:** Quieter Skies for Our Communities

**MISSION:** Utilizing Partnerships to Reduce Airport Noise for the Benefit of Neighboring Communities

**VALUES:** In order to develop successful community partnerships, CACNR Members and Representatives value and adhere to the following:

RESPECT

- Mutual respect for all opinions, questions and responses
- Non-judgmental reaction and response to views expressed
- Listening with intention
- Value for the diverse view and perspectives of all Members and Representatives
- Trust of one another

ETHICS

- Honesty
- Keeping commitments
- Refrain from gossip
- No hidden agendas

COMMITMENT TO

- Attendance and participation
- The shared CACNR Vision and Mission Statements
- Team effort
- Continual learning and education
- Sharing of ideas
- An open environment conducive to development and mutual support of common goals
- Transparency of activities and information
- Resolution of conflicts and differences
- The entire community

ACCOUNTABILITY

- To one another
- To our represented communities and constituents
- For the dissemination of information among ourselves, the ACPAA Board, our represented communities, constituents, and other stakeholders

INNOVATION

- Foster an environment which encourages creative thought and implementation
- Seek solutions outside our comfort zone
- Remain persistent and persevere in achieving the CACNR Vision and Mission

## **COMMUNITY OUTREACH COMMITTEE**

*Melissa Coudeyras, Chair*

### **2021 – 2022 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

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## **FLY QUIET COMMITTEE**

*Bill Wasmund, Chair*

### **2021 – 2022 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*

## **NOISE MONITOR COMMITTEE**

*Candace Moon, Chair*

### 2021 – 2022 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:
  - Correlating complaints with specific noise events
  - Identifying specific/single events resulting in multiple complaints

The following two committees work together for the purpose of developing and seeing to the implementation of the 2021-2022 Work Program.

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### **Executive Committee**

*Brad Pierce, Chair*

### **Work Plan Committee**

*Alison Biggs, Chair*

### 2021 – 2022 PRIORITY TASKS

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



# 2021 Work Planning and Prioritization Summary Report

## CACNR Phase 1 - Focus and Prioritization

The Centennial Airport Community Noise Roundtable (CACNR, Roundtable) was established to work with the Centennial Airport (the Airport) to identify strategies to reduce and/or mitigate aircraft noise impacts on surrounding communities. The primary role of the Roundtable is to act as an advocate on behalf of represented communities and to advise the Airport on aircraft noise issues.

Over the last year, conditions including the effects of the COVID pandemic and completion of the Denver Metroplex Project have resulted in increased community concerns related to aircraft operations at both Centennial and Denver International Airport.

ABCx2 met (virtually) with the CACNR Executive Committee on November 12<sup>th</sup> to discuss existing conditions and growing concerns within the community. While the impacts of COVID included a reduction in aviation operations at the Airport, it ~~has~~ also resulted in many people working from home and spending more leisure time at home due to travel and social restrictions. This is increasing awareness of and sensitivity to aircraft noise and the demand for more to be done to address these impacts.

A review of the existing CACNR Work Program identified several existing priority tasks, expected to provide relief for these communities, yet due to a variety of challenges facing the CACNR, progress on many of these tasks has been slow. Having worked with airports, community groups, and airport roundtables (including the CACNR), ABCx2 has the experience and expertise to help the CACNR progress in these efforts. ABCx2 was tasked with helping the Roundtable establish a work plan for 2021. The proposed work plan includes three phases: Phase I – Prioritization (completed), Phase II – Work Planning, and Phase III – Implementation.

The intent of **Phase I – Prioritization** was to help Roundtable Representatives identify the top priority tasks for 2021. These were intended to be specific tasks that were consistent with the Roundtable Mission, were within the purview of the Roundtable, and had a reasonable expectation of successful completion. This phase began with a thorough review of the CACNR 2019-2020 Work Plan and related documents. Planning sessions were then scheduled with four of the Roundtable Committees: Community Outreach Committee, Fly Quiet Committee, Noise Monitor Committee, and the Work Plan Committee. (The meeting with the Work Plan Committee included members of the Executive Committee as well). During these planning sessions, participants reviewed existing priorities, then in consideration of current conditions and issues, identified 2-3



“primary” priorities for 2021. In some cases, more than 2-3 priorities were identified, so an effort was made to characterize primary and secondary priorities.

Due to restrictions associated with COVID-19, the planning sessions were conducted online using Microsoft Teams. All four planning sessions have been completed and prioritized task lists for each committee have been developed based on the participants’ direction. The next step in this process will be to provide a summary report, highlighting the process, the specific priorities for each committee, and a list of observations and recommendations from ABCx2.

If approved by the CACNR, **Phase II** of this effort will focus on work planning for each of the prioritized tasks, which will include identification of roles and responsibilities, critical stakeholders, timelines, budget, etc. This is intended to ensure the greatest probability of successful completion or implementation of each task in the work plan.

Finally, **Phase III** (Implementation) will include support during the execution of the work plans for each (or selected) priority tasks. The level of support in Phase III will be determined based on input from the Roundtable. Some tasks may require minimal or no support from ABCx2, while others may be primarily done by ABCx2. The level of ABCx2 involvement may vary based on the expertise required, time required, and available budget.

Phase I focused on identifying priorities for each committee. Two-hour planning sessions were scheduled for each committee. Scheduling was based on committee member availability which was surveyed in advance. Once scheduled, participants were provided with a session agenda and asked to review the 2019 - 2020 Roundtable Work Program, which included the most current work plan and task priorities for each committee.



## PHASE 1 - Task Overview

Four planning sessions were hosted, one for each of the Roundtable's committees. These included: Community Outreach Committee, Noise Monitor Committee, Fly Quiet Committee, and the Work Plan Committee. The Executive Committee was invited to participate in the Work Plan Committee planning session.

### Community Outreach Committee

The planning session for the **Community Outreach Committee** was held on December 29, 2020. In attendance was Committee Chair, Melissa Coudeyras, and members Amy Holland, Mike Anderson, and Pam Thompson.

All four planning sessions followed similar agendas. The meeting agenda for the Community Outreach Committee Planning Session is below:

1. Agenda Review
2. Participant Introductions
3. Review of CACNR Mission
4. Review of 2019 - 2020 Work Program
5. Prioritization for 2021
6. Wrap-Up and Next Steps

After introductory remarks, participants reviewed the CACNR Mission and Vision to focus on the ultimate goals of the Roundtable and to encourage committee work planning that ultimately supported the Roundtable's mission.

Before reviewing the work plan, current issues and interests were discussed beginning with the DEN Metroplex project and impacts to communities around Centennial Airport. The Metroplex project resulted in airspace and flight procedure changes for Denver International, Centennial Airport and other airports in the region, resulting in changes in overflight patterns and noise for communities around Centennial Airport.

The needs of new (Roundtable) Representatives were raised during this and other planning sessions. Suggestions for new Representative training included technical training to cover technical topics (i.e. airport operations, flight operations, noise program, etc.), but should also



include an overview of the Roundtable, the prioritization and work planning process, and committee priorities including how the priorities were identified and by whom.

The Airport's noise complaint management process was also discussed. There is an interest in learning more about the Airport's process of receiving, investigating, and responding to noise complaints.

Other suggestions included expanding community engagement. This included providing more information to residents and appointing jurisdictions (CACNR's Regular Members). Annual reports were identified as an important tool for informing stakeholders.

Annual reports can be posted online for residents and should be provided directly to appointing jurisdictions and elected officials to keep them engaged, aware of the communities' airport noise concerns, and the Roundtable's work on behalf of their residents.

Social media was discussed as an effective tool for engaging the community. However, with the Roundtable made up of volunteers, finding someone with the time to maintain a social media channel is a challenge. Twitter and NextDoor.com were discussed with NextDoor enabling targeted engagement based on specific neighborhoods or homeowner associations. Outside support (i.e. ABCx2) was suggested as an option for maintaining engagement via social media.

After a review of the tasks in the 2019 Work Program, participants were asked to identify 2-3 primary or top priorities for 2021. The intent was to establish a list of tasks that were actionable and could be completed within the calendar year.

## **Priorities**

The priority list (and descriptions) below are intended to reflect the discussion and feedback from the Community Outreach Committee members who participated in the planning session.

### **Website – Further improvements in content**

Work has been done to improve/expand the website, but opportunities for further improvement exist. Specific content improvements were not identified but it was suggested the website be made more "user-friendly). ABCx2 was asked to review the website for comparison to other airport websites. (While out of scope for this phase, this may be conducted as a Phase II activity).



## **Promote FAA-Roundtable Participation and Engagement**

FAA participation was identified as a priority by the committee members. Attendance at Roundtable meetings is important for demonstrating (to the community) the ongoing collaboration among the Airport, Roundtable, and FAA. Having FAA representatives at the meetings also enables technical FAA and air traffic questions to be answered directly. FAA technical briefings for the Roundtable and community were also noted as a benefit of FAA participation to the Roundtable's Members.

## **Expand outreach to elected officials (Briefings) and HOAs (Email)**

Expanding community outreach was identified as a priority. Specific audiences included elected officials (Member jurisdictions) as well as residents. The engagement of elected officials should include personal briefings (versus email). Outreach targeting specific Homeowner Associations (HOAs) can be done using NextDoor.com and/or email. Targeted outreach will enable engagement and messaging to focus on the interests of the specific HOAs which may differ based on location in proximity to the airport or flight patterns.

## **Leverage social media as a tool for community outreach**

Social media was identified as a tool to expand community engagement, primarily focusing on residents (versus Elected Officials). The social media strategy should focus on providing information to the public but become an outlet for noise complaints. Noise complaints are managed through the Airport using existing channels. Specific social media platforms discussed included Twitter and NextDoor.com. As noted, NextDoor.com would enable targeted engagement of specific neighborhoods or HOAs.

Social media could be used to allow Roundtable Representatives to reach out to the community. Engagement could include information about information sources for those with questions or concerns related to aircraft noise (i.e. flight tracking, where to go to submit a noise complaint, and how to access resources and information).

## **New Representative Orientation – *Identified as Work Plan Committee Task***

The need for new Representative's training was also identified as a priority, however, it was noted that this task may fall under the responsibility of the Work Plan Committee. New Representative's orientations should include both technical content as well as more general information about the Roundtable (mission, scope, work planning, etc.).





## **Annual Report - Identified as Work Plan Committee Task**

The value of annual reporting was identified as a priority. Again, this was identified as a task for the Work Plan Committee. Annual reporting would support the engagement of both Member jurisdictions and residents. In addition to annual reporting, quarterly briefings, or “touchpoints” with Member jurisdictions’ (elected officials) was also recommended.

## Noise Monitor Committee

The planning session for the **Noise Monitor Committee** was held on January 14, 2020. In attendance were Candace Moon, Dan Avery, and Alison Biggs.

All four planning sessions followed similar agendas. The meeting agenda for the Community Outreach Committee Planning Session is below:

1. Agenda Review
2. Participant Introductions
3. Review of CACNR Mission
4. Review of 2019 – 2020 Work Program
5. Prioritization for 2021
6. Wrap-Up and Next Steps

After a welcome and introductory remarks, participants reviewed the CACNR Mission and Vision to focus on the ultimate goals of the Roundtable and to encourage committee work planning that ultimately supported the Roundtable’s mission.

Prior to reviewing the work plan, current issues and interests were discussed. Specific issues and interests discussed included dealing with specific noise events resulting in multiple complaints, how to correlate noise complaints to noise monitor data, and developing a rewards program for pilots who comply with the noise program recommendations. Similarly, understanding the process for engaging pilots who do not comply with the noise program recommendations was discussed.

Impacts associated with flight training (overflights and noise) were identified as a significant concern by the committee members. Specifically mentioned was the volume of traffic going to and from the local practice areas. Establishing preferred (more “community-friendly”) routing to and from local practice areas was identified as a potential action item.



There was a lengthy discussion about the data available from the noise monitoring system. Questions included whether the Roundtable is getting valuable data from the noise monitors and how the Roundtable can best use the data. A suggestion made that ABCx2 could provide a summary of what other airports collect and what is done with noise monitor data. (This was noted as a possible task item for Phase II).

During the review of the 2019 Work Program, a number of potential tasks and action items were discussed. Local impacts associated with the DEN Metroplex project were discussed, as they were during the Community Outreach Committee planning session. Changes in airspace, flight procedures, and noise impacts around Centennial Airport are a concern for the Roundtable Members. Due to pending litigation by the Airport, any action to investigate the Metroplex changes should be postponed until the litigation is resolved.

After a review of the tasks in the 2019 Work, Program, participants were asked to identify 2-3 primary or top priorities for 2021. The intent was to establish a list of tasks that were actionable and could be completed within the calendar year.

## **Priorities**

The priority list (and descriptions) below are intended to reflect the discussion and feedback from the Noise Monitor Committee members who participated in the planning session.

**The Noise Monitor Committee and CACNR would benefit from getting a better understanding of what data is available through the NOMS system and how it can be used in support of the CACNR Mission.**

Discussion focused on the data available from the noise monitoring system. Specific questions related to the NOMS system included:

- What data is available from the system?
- What does the data mean/tell us?
- What reports (from the Airport) would be more useful to the Roundtable?
- Could the Airport provide a “deep dive” into the NOMS system to include the data available and how it is used by staff. (A high-level overview of this should be included in the new Representative orientation).



**NOMS 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, and other special events. This can be used to better inform the community, especially of temporary changes.**

Utilize the NOMS data to inform the community of changes in noise and overflight patterns. Examples include seasonal/flow changes, special events such as firefighting operations, changes in flight patterns due to weather events, law enforcement activities, etc. This data can be used to inform the community of changes in flight patterns (and noise) (both proactively and after the fact, and why they will or have occurred).

**Development of Fly Quiet Incentives for pilots and/or companies. Leverage noise monitor data in support of Fly Quiet incentives.**

The NOMS data could be used in support of adding incentives to the Fly Quiet Program in recognition of pilots (or companies) who comply with the airport noise program. While voluntary in nature, incentivization could encourage awareness and compliance. This effort should be explored in cooperation with the Fly Quiet Committee.

**Expand the Noise Complaint Management Process to include correlation of available NOMS data.**

When possible, noise complaints should be correlated with flight track and noise event data from the NOMS system. Additionally, specific/single events resulting in multiple complaints should be identified and noted in monthly complaint reports.

## [Fly Quiet Committee](#)

The planning session for the **Fly Quiet Committee** was held on January 18, 2020. In attendance were Committee Chair Don Kuskie and members, Bill Wasmund, Bill Skinner, Karen Blilie, and Brad Pierce.

All four planning sessions followed similar agendas. The meeting agenda for the Fly Quiet Committee Planning Session is below:

1. Agenda Review
2. Participant Introductions
3. Review of CACNR Mission



4. Review of 2019 – 2020 Work Program
5. Prioritization for 2021
6. Wrap-Up and Next Steps

After a welcome and introductory remarks, participants reviewed the CACNR Mission and Vision to focus on the ultimate goals of the Roundtable and to encourage committee work planning that ultimately supported the Roundtable's mission.

Prior to reviewing the Work Program, current issues and interests were discussed. Specific issues and interests discussed included concerns associated with the DEN Metroplex project and changes in flight patterns and noise exposure.

Recent accomplishments were discussed, including updates to the website, updates in the airport signage, publication of a noise abatement brochure, and ongoing work with one of the flight schools at APA.

Several potential action items were identified including revised flight procedures for APA, addressing nighttime operations, expanding engagement with pilots, FAA, and the flight schools, and developing a Fly Quiet training program.

### **Priorities**

The priority list (and descriptions) below are intended to reflect the discussion and feedback from the Fly Quiet Committee members who participated in the planning session.

**Expand industry engagement efforts to encourage awareness and support of the APA Fly Quiet Program. This would include Fly Quiet briefings for key stakeholder groups to include air traffic control, flight schools, and pilots.**

Expanding industry engagement was identified as a top priority for the Fly Quiet committee. Air traffic control engagement should focus on encouraging awareness of the APA Fly Quiet program to increase support of program elements including the use of the close-in traffic pattern for closed-traffic operations (when conditions allow).

Flight training activity is a major source of noise impacts and complaints. Briefings may be developed for flight instructors as well as groups of students. Engaging the flight schools to encourage awareness of the Fly Quiet program, the impact of aircraft noise on surrounding communities, and the opportunities pilots have to reduce those impacts. In addition to briefings, ongoing engagement could include the use of engagement materials, brochures, posters, and placards in flight training and flight planning areas, etc.



Engaging the pilot community (in general) is intended to encourage general awareness of the Fly Quiet program and the impacts of aircraft noise on nearby communities. A variety of engagement strategies (and tools) can be deployed, based on the intended audiences (i.e. local/based pilots and visiting/itinerant pilots).

**Identify potential modifications to APA airspace and/or flight procedures to reduce community noise impacts.**

Changes in APA airspace and/or flight procedures (departures, approaches, and routes to/from the local practice areas) could be optimized to reduce community noise impacts.

**[Secondary Priority] Continue research into aircraft technologies to reduce noise, specifically, the use of composite propellers and noise mufflers for piston aircraft.**

The Committee has been researching the use of composite propellers and noise mufflers to reduce noise impacts associated with propeller aircraft operations. The committee endorsed continuing this research.

**[Secondary Priority] Establish an incentive program to encourage pilots to overfly APA noise monitors and provide recognition for operations below a specified noise threshold.**

Members discussed a program in which pilots would be encouraged to fly over APA noise monitors and those who did while remaining below specified noise levels, would receive recognition as a form of incentive.

**Airport staff briefing about Noise Complaint Process – *Unclear which committee would be responsible.***

As discussed during other planning sessions, the Airport's process for managing noise complaints was noted. The receipt, investigation, resolution, and response, to noise complaints, are of interest to Roundtable Representatives. A briefing by airport staff is of interest.

## Work Plan Committee

The planning session for the **Work Plan Committee** was held on January 27, 2020. In attendance were Committee Chair Alison Biggs, and member Brad Pierce, and the other two members of the Executive Committee, Melissa Coudeyras and Tom Dougherty. Because the Work Plan Committee was currently so small, and the two on it were also Executive Committee members, the two committees had been combined this final planning session.



All four planning sessions followed similar agendas. The meeting agenda for the Community Outreach Committee Planning Session is below:

1. Agenda Review
2. Review of CACNR Mission
3. Review of 2019-2020 Work Program
4. Prioritization for 2021
5. Task 1 Progress Update
6. Wrap-Up and Next Steps

All participants had attended previous planning sessions, so the welcome and introductory remarks were abbreviated. After a brief discussion of the agenda, a review of the CACNR mission and vision was conducted. Next, priorities from the 2019-2020 Work Program were reviewed. Many of the tasks and ongoing activities have been completed or are ongoing and will continue.

Training for new Roundtable Representatives was discussed at length. All participants agreed that establishing a formal training program was an important priority that should be pursued in 2021. The format of the training may come in many forms. A training “binder” with reference materials could be developed and passed among new members as a training aid. It was acknowledged that training materials in “hard-copy” would be costly to develop and difficult to maintain. Committee members recommended other mechanisms for orientation that could be explored, including an email library for new Representatives’ use as desired, and perhaps periodic, focused retreats or other face-to-face meetings when allowed again following the pandemic.

Currently, new Representatives are emailed a “Welcome Packet” which includes the Roundtable Bylaws, Vision and Mission, Memorandum of Understanding (MOU) between the Roundtable and Member jurisdictions, a Representative roster, and related materials.

Discussions during the other planning sessions noted the importance of better training for new Representatives. This should include technical topics including airport operations, air traffic control, aviation regulations, stakeholder roles and responsibilities, and an overview of the Fly Quiet program. Non-technical training is also essential to include background information about the Roundtable, the Roundtable’s scope of responsibilities, the existing, Work Program and the work planning/prioritization process.

The need for expanded and formalized training was acknowledged but the best methodology will require further discussion. This is something that can be determined during Phase II of this work.



The value of annual reports was also agreed to, and consistent with comments from other planning sessions. Annual reports have been published in the past but can be difficult to maintain due to the work required and the time available by Roundtable Representatives, all of whom are volunteers.

Meeting agendas and content were discussed. Comments from other planning sessions suggested meetings could be structured in a way to better utilize the time and to adjust agendas to better support the mission of the Roundtable.

Specific items discussed included:

- Better use of meeting time with targeted, more focused agendas
- Fewer agenda items allowing more time for discussion
- More time spent on actionable items, less on information sharing

## **Priorities**

The priority list (and descriptions) below are intended to reflect the discussion and feedback from the Work Plan Committee members who participated in the planning session.

### **Update CACNR Work Program biennially**

The Roundtable's Work Program (work plan) is updated every two years. It was agreed that this should be continued. Work planning and prioritization are important in ensuring the Roundtable's work is consistent with the mission.

### **Develop Annual Reports**

Informing Roundtable stakeholders, especially Member jurisdictions, is important for keeping them apprised of the efforts and accomplishments of the Roundtable. Annual reporting may come in the form of an actual written report and supplemented by briefings to Member jurisdictions. These reports can be posted online for access by interested residents. Due to the time required to develop annual reports, these may be candidates for outsourcing or outside support.

### **Establish a Roundtable Training Program**

As noted, the importance of training for new Representatives was recognized by both the Work Plan Committee and during other planning sessions. The format and content of new



Representative training has yet to be established but establishing a formal training program is a key priority for 2021.

**Revise meeting agendas to align more closely with the CACNR mission and Work Program priorities.**

Meeting agendas should be redesigned to better meet the Roundtable objectives. Specifics as to how to restructure meetings should be explored further and could be discussed at a future Roundtable meeting to get a better understanding of the intent of this recommendation. Questions such as, “What do you like/dislike about the current meeting agendas,” and “What should be removed/added to the agendas,” should be considered during a wider discussion with the Roundtable Representatives.

**Gain a better understanding of how noise complaints are reviewed and processed by airport staff and review what noise complaint (and related) information is reported to the Roundtable**

The Airport’s noise complaint process was discussed during multiple planning sessions. Airport staff should provide an overview of the noise complaint process to include how complaints are received, documented, investigated, resolved, and responded to. Noise complaint information is provided to the Roundtable monthly. The content of what information is provided should be explored to determine what is of most value to the Roundtable.

**[Secondary Priority] Engage local jurisdictions to proactively encourage compatibility between airport operations and land-use/zoning.**

Land-use, zoning, and development around the airport can determine the level of existing and future impacts associated with airport operations. While not a primary responsibility of the Roundtable, this was something the leadership will continue to monitor.

**Priority Tasks Phase 1 Progress Update**

Following the prioritization, a brief update of the Priority Tasks identified during Phase 1 of this project was provided. This included a discussion of priorities and input from the other committee planning sessions.





## **Wrap-Up and Next Steps**

Having completed the four planning sessions, ABCx2 will provide a summary report highlighting the outcomes of each meeting and the final list of priorities identified by each committee.

The main deliverables of Phase I were the list of priority tasks for 2021. This will provide the general direction the Roundtable wishes to go moving forward. Phase II as proposed will build on the prioritization effort by establishing specific work plans for accomplishing the goals identified. Finally, the proposed Phase III would provide support with the execution of the activities (tasks and sub-tasks) identified in Phase II, to help the Roundtable achieve its goals for 2021.

## **Consultant's Observations and Recommendations**

In addition to helping identify priorities for 2021, the roundtable leadership asked for other recommendations identified during Phase I. During the preparation and execution of the planning sessions, several observations were made. These observations and related recommendations are described below.

- The need for expanded formal, consistent training for new Representatives is apparent. Several Representatives expressed a feeling of not being prepared to effectively engage or fulfill their role due to a lack of training and familiarization with the technical and non-technical issues the Roundtable deals with. Not having a clear understanding (and in some cases an awareness) of the Work Program and priorities, and their origin was also an issue that could be addressed through new Representative training and orientations.
- There is a lack of clarity on the role of the Roundtable as well as the scope of responsibilities. In some cases, the role of the Roundtable seems to overlap the role of the Airport. Typically, the primary role of a noise roundtable such as CACNR is as an advisor, making recommendations to airport staff or airport authority leadership, rather than taking on the responsibility for direct actions. In some cases, the Roundtable Representatives may be taking on or feeling they are expected to take on the work that should be delegated to airport staff. In many cases, CACNR volunteers identify high priority initiatives but lack the time to accomplish these goals. Some of these may be more appropriately submitted as recommendations to the Airport and delegated to staff.



- In some cases, there seemed a lack of interest (or time available) for committee members. Committee membership should likely be voluntary, allowing Representatives with a passion and interest in the work of a committee to join that committee. Allowing Representatives to self-select may help get those with a passion for a committee's scope and work plan to engage in those efforts. Committees without adequate (voluntary) support may be placed on-hold or their work outsourced. (The approach of asking Representatives on which committee each would like to serve is the approach currently used by the CACNR Chair.)
- Another approach to tasks identified as high priority to the roundtable could be the use of task groups. Task groups could be assigned to accomplish a specific task, with Representatives from any committee or other volunteers from the roundtable. At the completion of the task, the task group can be dissolved). This is an approach used to combine individuals with a specific interest and commitment to complete a task or project which may result in better outcomes. This was the approach used with the Study Group which worked on the Memorandum of Understanding and then was dissolved when that work was completed.
- When work planning, ensure the priorities identified are appropriate to the role and scope of the Roundtable (rather than airport staff), the tasks adopted should be limited to those that can be realistically accomplished within the planning period, and have adequate resources for completion. These priorities should be reviewed at least 1-2 times per year within each committee to ensure they are relevant, and committee members remain committed to completion.
- Review the existing committees to ensure they are appropriate (and needed) to meet the goals and objectives of the CACNR. Work planning should be based on the CACNR mission and current/future conditions and committees should be developed to meet those needs. The scope and need for each committee should be considered on at least an annual basis as needs and priorities may change over time.
- Each committee should have a clear charter to include a mission, scope, goals and objectives, and a work plan. In several cases, it seemed the scope and goals for committees were unclear and overlapped among multiple committees.



- Work planning should begin with the identification of the intended goal or outcome. In some cases, the work planning discussion focused on the process or the work itself, rather than the ultimate goal of the effort.



## Roundtable Committee Priorities (2021)

### Community Outreach Committee

- Website – Further improvements in content
- Promote FAA participation/support of the Roundtable
  - FAA directly informing the community
  - Briefings to the public
  - Demonstrate collaboration with Airport > Roundtable > FAA
- Expand outreach to elected officials (Briefings) and HOAs (Email)
- 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
- Establish New Representative Training / Orientation – *Identified as Work Plan Committee Task*
- Publish Annual Reports - *Identified as Work Plan Committee Task*

### Noise Monitor Committee

- The Noise Monitor Committee and CACNR would benefit from getting a better understanding of what data is available through the NOMS system and how it can be used in support of the CACNR Mission.
- 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.
- Development of Fly Quiet Incentives for pilots and/or companies. Leverage noise monitor data in support of Fly Quiet incentives.



- Noise complaint processing should include:
  - Correlating complaints with specific noise events
  - Identifying specific/single events resulting in multiple complaints

### **Fly Quiet Committee**

- 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.
- Identify potential modifications to APA airspace and/or flight procedures to reduce community noise impacts.
- **[Secondary Priority]** Continue research into aircraft technologies to reduce noise, specifically, the use of composite propellers and noise mufflers for piston aircraft
- **[Secondary Priority]** Establish incentive program to encourage pilots to overfly APA noise monitors and provide recognition for operations below a specified noise threshold
- Airport staff briefing about Noise Complaint Process – *Unclear which committee would be responsible*

### **Work Plan and Executive Committees**

- Update CACNR Work Program biennially
- Develop annual reports
- Establish a roundtable training program
- Revise meeting agendas to more closely align with the CACNR mission and work plans
- 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
- **[Secondary Priority]** Engage local jurisdictions to proactively encourage compatibility between airport operations and land-use/zoning

## CACNR Job Descriptions for Officers

### CHAIR: The Chair of CACNR will

1. chair all regular and special meetings of CACNR, and coordinate with the Vice Chair if unable to be present at any meeting;
2. assure business of CACNR is conducted in accordance with Robert's Rules of Order Newly Revised;
3. assure business of CACNR is conducted with decorum and with respect for differing points of view;
4. notify any Member whose Representative(s) or Alternate(s) have not attended at least 75% of CACNR meetings as established in Article III c. of the bylaws, documenting such absences and requesting replacement of that Representative or Alternate;
5. notify any Member whose Representative(s) or Alternate(s) have behaved in a manner detrimental to the advancement of CACNR's Work Program or has displayed disruptive or rude behaviors, documenting such behaviors, and requesting replacement of that Representative or Alternate;
6. represent CACNR to the general public and at outside functions as appropriate;
7. coordinate CACNR activities with ACPAA, the FAA, and any other appropriate agencies or organizations;
8. oversee implementation of the CACNR Work Program and develop plans to advance its various components;
9. serve as Chair of the CACNR Executive Committee;
10. as necessary, appoint committees to address the various matters relating to CACNR's Work Program;
11. upon the resignation of any officer, appoint a replacement to fill the unexpired term, subject to the approval of CACNR's Regular Representatives;
12. upon the absence of the Secretary at any meeting, appoint an Acting Secretary for that meeting;
13. authorize, with the Treasurer or other member of the CACNR Executive Committee, the expenditure of funds from the designated/restricted fund maintained for CACNR by ACPAA;
14. in coordination with the Treasurer, prepare a CACNR budget for approval of the Regular Representatives;
15. determine the time and place for any special meeting requested by at least 25% of the Regular Representatives;
16. prepare the agenda for all regular and special meetings, in coordination with ACPAA staff;
17. assume other responsibilities and tasks as directed by the Members' Representatives.

### VICE CHAIR: The Vice Chair of CACNR will

1. perform the duties of the Chair in her/his absence;
2. serve on the CACNR Executive Committee;
3. work closely with the Chair to develop and implement plans to advance CACNR's Work Program;
4. assist the Chair in monitoring the implementation of the CACNR Work Program;
5. authorize, with either the Chair or the Treasurer, the expenditure of funds from the designated/restricted fund maintained for CACNR by ACPAA, in the absence of either the Chair or the Treasurer;
6. assume other responsibilities and tasks as requested by the Chair or as directed by the Members' Representatives.

### SECRETARY: The Secretary of CACNR will

1. record and keep the minutes of each regular and special meeting of CACNR which, when approved, shall be posted on the CACNR and Centennial Airport websites;
2. record meeting attendance at each regular and special meeting of CACNR;
3. assure the records of all meetings are available to the Members' Representatives and Alternates and to the general public;
4. be the custodian of CACNR records, and may coordinate with ACPAA staff to assure maintenance of the CACNR archives;
5. assume responsibility for maintaining and updating the CACNR Work Program which, when approved, will be posted on the CACNR and Centennial Airport websites;
6. provide for notice of the biennial review and updating of the CACNR Work Program as required by these bylaws;
7. provide notice of the upcoming election, one month prior to that election, and invite nominations in accordance with Article IV.a.
8. receive any written, proposed amendments to the bylaws, confirm such amendments have been provided by at least 25% of the Regular Members' Representatives, and provide electronic notification of the proposed amendments to the CACNR Members' Representatives at least 48 hours in advance of the next meeting.
9. serve on the CACNR Executive Committee;
10. authorize, with either the Chair or the Treasurer, the expenditure of funds from the designated/restricted fund maintained for CACNR by ACPAA, in the absence of either the Chair or the Treasurer;
11. assume other responsibilities and tasks as requested by the Chair or as directed by the Members' Representatives.

### TREASURER: The Treasurer of CACNR will

1. serve as the chief financial officer of CACNR;
2. coordinate with ACPAA staff in the establishment and management of the designated/restricted fund maintained for CACNR by ACPAA containing the funds from CACNR Members;
3. monitor and provide oversight for CACNR funds and expenses;
4. in coordination with the Chair, prepare a CACNR budget for approval of the Regular Members' Representatives;
5. provide financial reports to CACNR at every regularly scheduled meeting, and as otherwise requested;
6. authorize, with the Chair or other member of the CACNR Executive Committee, the expenditure of funds from the designated/restricted fund maintained for CACNR by ACPAA;
7. serve as a member of the CACNR Executive Committee;
8. assume other responsibilities and tasks as requested by the Chair or as directed by the Members' Representatives.

**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**
3. Review and address items on this list – it is getting too long. **04/06/22 and 09/07/22**

4. 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**
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 and 09/07/22**
4. 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**
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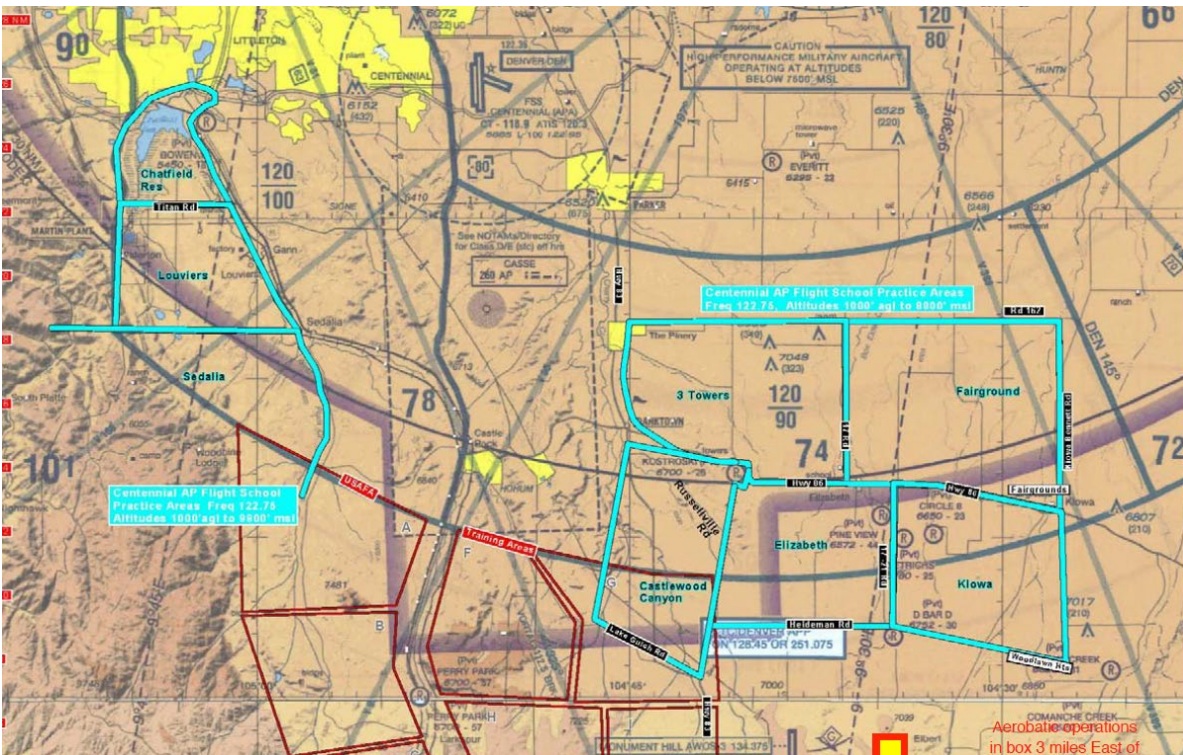
## Fly Quiet Committee – September 2022 Monthly Report

### Bill Wasmund, Chair

Engage other nearby airports with high volumes of general aviation activity. Gathering contact information for Rocky Mountain Metropolitan Airport (KBJC), Colorado Springs Municipal Airport (KCOS), Pueblo Airport (KPUB), Colorado Air and Space Port (KCFO), and Meadow Lake Airport (KFLY).

- Information sharing of each airport’s noise abatement programs and noise-sensitive areas.
- Brochures and other pilot outreach materials may be exchanged and distributed through the flight schools, to their flight instructors and students.
- Information for nearby airports’ noise programs could be published on the airports’ websites.

Flight Schools and development of a new practice box east of Kiowa.



- Met with Aspen Flying Club Chief Pilot Justin Mazza. AFC instructors have been using the airspace directly east of Kiowa informally for training. Unclear if there has been any coordination with other flight schools. No formal development has been made and it appears that there is no interest in proceeding on their part. I was asked if CACNR or ACPAA should be responsible for formal development. Subject needs to be addressed at next Flight School meeting.
- Kristine Chipman is no longer with AFC
- AFC under the impression (rumor) that the Chatfield Reservoir practice box is to close.



## **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 2<sup>nd</sup> 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. **08/03/22**
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**

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 and 09/07/22**
4. 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**
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## **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:
  - Correlating complaints with specific noise events
  - 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**
7. Look at noise and complaint trends related to each monitor and/or jurisdiction, for at least a few months and perhaps years. **09/07/22**
- 8.

### **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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CACNR September 7, 2022 Report to ACPAA for October 7, 2022

Paul Krier, Unincorporated Arapahoe County representing CACNR

- ACPAA Airport management, led by Michael Fronapfel, took most members of CACAR on an airport tour to familiarize the organization with the airport layout and an inside look of airport operations.
- Public comments by Betty Todd and Randy Johnson ,in attendance, and emails from the community noted that air traffic seemed to have significantly increased over the last month. They stated that it is not necessarily the noise level but the volume of continuous traffic.
- Community Outreach received new committee members and has secured our website and domain name for another three years.
- Fly Quiet committee is collaborating with the Noise Monitor committee on some overlapping ideas.
- Noise monitor committee received an update to the status of the mobile noise monitor which has been placed back at a previous location and is gathering data to be presented at a future meeting.
- The Roundtable was briefed on the temporary closure of runway 17R/35L for resurfacing and the potential differences of noise exposure over the surrounding community including the public commenter's locations.
- The board has reached out to Congressman Jason Crow (CO-06) for a sharing meeting as Congressman Crow is a member of the Congressional Quiet Skies Caucus.

**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 and 09/07/22**
29. Provide tour of airport for CACNR Representatives. **08/03/22**
30. Discuss air traffic management with new control tower manager. **09/07/22**
31. Continue discussion with flight schools about how they might help out with the noise problems on the ground. **09/07/22**
32. Two areas providing reports of noise getting worse rather than better. Both seemed primarily related to training, so the next flight school meeting needs to be apprised of the problem. **09/07/22**
33. Question was asked if the same planes were involved in any of the kinds of problems reported here (from Franktown email to CACNR), or planes from any one flight school. Mike Fronapfel indicated staff would explore that idea.
34. Provide data from the Highlands Ranch portable noise monitor on a monthly basis as long as it is in place. **09/07/22**

35. Donna Johnston indicated the airport in Morristown, New Jersey was also dealing with flight school issues and might have some ideas which CACNR could consider. Mike Fronapfel responded that he would look into it. 09/07/22
- 36.

#### **ALL COMMITTEES**

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