



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

August 3, 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 this meeting in person
Members of the public may attend the meeting in person, or virtually**

AGENDA

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

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

1. CALL TO ORDER AND DETERMINATION OF QUORUM:

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

SPECIAL PRESENTATION: Will Rummel, Training Support Manager with ATP Flight School

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, July 6, 2022 – Alison Biggs, Secretary
 - B. TREASURER'S REPORT, July 2022 – Andy Jones, Treasurer
 - C. NOISE REPORT, June 2022 – Samantha Blymyer
4. **ITEMS REMOVED FROM CONSENT AGENDA:**
5. **COMMITTEE REPORTS:**
 - A. EXECUTIVE/WORK PLAN COMMITTEE – Brad Pierce, Chair
 1. Status of Follow Up Items
 2. Reminder re Use of Alternates; Notify CACNR of Personnel Changes
 - B. COMMUNITY OUTREACH – Mike Anderson
 1. Status of Follow Up Items
 - C. FLY QUIET – Don Kuskie for Bill Wasmund, Chair
 1. Status of Follow Up Items
 - D. NOISE MONITORS – Candace Moon, Chair
 1. Status of Follow Up Items
6. **FAA REPORT:**
 - A. CENTENNIAL AIRPORT AIR TRAFFIC CONTROL TOWER – Vacant/Ron Curry
7. **OTHER REGULAR REPORTS:**
 - A. ACPAA – No July Meeting

B. AIRPORT DIRECTOR'S REPORT – Mike Fronapfel

1. Airport Activity
2. Legislative
3. Status of Follow Up Items
4. Other

8. **OLD BUSINESS:**

A. TO REPRESENT CACNR AT NEXT ACPAA MEETINGS:

1. August 11 – John Hirshman September 8 October 13 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 –	September 7, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	October 5, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	November 2, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
	December 7, 2022	6:30 p.m. 7565 S. Peoria Street, Unit 9D
B. ACPAA –	August 11, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D – John Hirshman for CACNR
	September 8, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D
	October 13, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D
	November 10, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D
	December 8, 2022	3:00 p.m. 7565 S. Peoria Street, Unit 9D

12. **ADJOURN**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE
MINUTES
July 6, 2022

DRAFT

VISION – QUIETER SKIES FOR OUR COMMUNITIES

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

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

1. **CALL TO ORDER, ROLL CALL, and QUORUM:** The meeting was called to order at 6:33 p.m. by Chair Brad Pierce. The following were in attendance, but a quorum was not present at that time:

Arapahoe County:	Carrie Warren-Gully (later)	Highlands Ranch Metro:	Andy Jones
Arapahoe County:	Evan Colvin	Lone Tree:	Mike Anderson
Douglas County:	Alison Biggs	ACPAA:	Mike Fronapfel
Aurora:	Brad Pierce	AOPA:	Bob Doubek
Castle Rock:	Laura Cavey (virtual)	CABA:	Don Kuskie
Centennial:	Candace Moon (virtual later)	Wings Over the Rockies:	Bill Wasmund

Others in attendance were John Hirshman, AOPA Alternate Representative; Randy Johnson of Louviers; and ACPAA staff Samantha Blymyer and Lauren Wiarda, and Chris Thompson via telephone.

Those absent were:

Douglas County:	Abe Laydon/Dan Avery	Parker:	Amy Holland/Todd Hendreks
Castle Pines:	Chris Eubanks/Ben Price	CDOT Aeronautics Div:	Todd Green/Vacant
Cherry Hills Village:	Al Blum/Afshin Safavi	FAA APA Control Tower:	Jeff Holmes/Ron Curry
Foxfield:	Pam Thompson/Frank Lawrence	FAA District Office:	John Bauer/John Sweeney
Greenwood Village:	Donna Johnston/Libby Barnacle	FAA TRACON:	Steve Martin/Bill Dunn

SPECIAL PRESENTATION: Will Rummel, Training Support Manager with ATP Flight School – Mr. Rummel was unable to be present, but had confirmed he would attend in August.

2. **PUBLIC COMMENT:**

A. **VIRTUAL/IN-PERSON MEETING ATTENDEES** – Randy Johnson of Louviers said thing had gotten considerably quieter, and he had noted training aircraft seemed to be flying more north and south of Louviers, rather than directly over the town. This was much appreciated.

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

3. **CONSENT AGENDA:** To be considered in its entirety following the arrival of a quorum.

4. **ITEMS REMOVED FROM CONSENT AGENDA:** To be considered following arrival of a quorum and action on #3.

Due to the lack of a quorum, action could not be taken on Agenda Items 3 & 4, so informational reports were considered next.

5. **COMMITTEE REPORTS:**

A. **EXECUTIVE /WORK PLAN COMMITTEES** –The status of follow-up items was briefly reviewed.

B. **COMMUNITY OUTREACH** – Mike Anderson indicated the committee had not met, and work with Trish Coberly related to the website was proceeding slowly. The airport's new Manager of Communications might be available to help with the use of social media at some point.

C. **FLY QUIET** –Bill Wasmund presented a written report and highlighted some portions of it. Among others, the Government Accountability Office (GAO) made recommendations to the FAA about the use of Alternative Metrics in combination with DNL to define noise impacts. These Enhanced Noise Metrics include Sound Exposure Level SEL (Single Event Sound Exposure), the Number Above (number of noise events that exceed a selected sound level threshold over a 24 hour period), and the Time Above (Total time that aircraft noise levels exceed a selected sound level).

The FAA agreed with the GAO's recommendations and indicated it would take steps to implement them by the end of 2022, although realistically, implementation is not expected for 2-3 years. Updates were to be available at www.gao.gov/products/GAO-21-103933

Stanford University's Aerospace Design Laboratory is looking at what would comprise a good alternative metric, as DNL alone is not a good predictor of annoyance measurement.

Now that a new Manager of Communications (see 7.B.4.) is on board at the airport, the topic of adding brief noise abatement statements to the airport's electronic signs will be revisited with him.

The Aspen Flying Club seems to have taken the lead in working on new practice boxes east of Kiowa, in collaboration with the other flight schools. This may possibly evolve into two areas. Mike Fronapfel reported he is also speaking with the Air Force Academy about letting our flight schools use the Academy's practice boxes when they are not in use by the Academy. It is not yet known if the Academy has any kind of scheduled use of the boxes that would make this possible, but it was agreed this was something certainly worth exploring.

A quorum had arrived, so CACNR returned to consideration of Agenda Items 3 and 4.

3. **CONSENT AGENDA:**

A. & B. – DRAFT MINUTES AND TREASURER'S REPORT - The Consent Agenda included the May 4, 2022 draft CACNR minutes, the June 1, 2022 draft CACNR minutes; and a Treasurer's Report from 05/26/22 which showed a balance of \$24,310.30. The Consent Agenda also included the May 2022 Noise Report. On the motion of Carrie Warren-Gully, duly seconded, the Consent Agenda was approved.

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

May Total Operations:	26,499	May Total Local Operations:	12,574
Year to Date Total Operations:	120,289	Year to Date Local Operations:	52,874

512 Complaints from 26,499 Total Operations in May

Noise Events:

May Totals:	May 60 – 69 db:	May 70 – 79 db:	May 80 – 89 db:
8,592 Golf Course	5,251 Meridian	3,415 Golf Course	437 Airport East
6,905 Meridian	4,871 Golf Course	1,555 Meridian	297 Golf Course
2,471 Airport East	1,593 State Park	773 State Park	56 Meridian
2,402 State Park	1,360 Parker	738 Airport East	33 State Park
1,511 Parker	1,297 Grandview Estates	193 Grandview Estates	18 Lone Tree
1,500 Grandview Estates	1,259 Airport East	163 Greenwood Village	10 Grandview Estates
1,305 Castle Rock	1,223 Castle Rock	148 Parker	5 Hunters Hill
1,133 Greenwood Village	996 Greenwood Village	82 Castle Rock	4 Greenwood Village
760 Lone Tree	659 Lone Tree	70 Hunters Hill	3 Parker
608 Hunters Hill	533 Hunters Hill	63 Lone Tree	1 Sagebrush Park
231 Castle Pines	208 Castle Pines	23 Castle Pines	- Castle Pines
177 Sagebrush Park	156 Sagebrush Park	20 Sagebrush Park	- Sagebrush Park

May Noise events in the 90+ decibel range were Meridian – 43 Airport East – 37 Lone Tree – 20 Golf Course – 9 State Park – 3

May Noise Complaints(512) and Numbers of Households (48)

YTD Complaints & Number of Households

Noise Complaints:

146 Centennial (29%)
 143 Greenwood Village (28%)
 79 Unincorporated Arapahoe Cnty (16%)
 57 Castle Rock (11%)
 29 Other (6%)
 24 Unincorporated Douglas County (5%)
 12 Aurora (2%)
 11 Highlands Ranch (2%)
 10 Lone Tree (2%)
 1 Castle Pines (0.2%)

Number of Households:

10 Other (21%)
 7 UAC (15%)
 7 UDC (15%)
 7 Greenwood Village (15%)
 4 Castle Rock (8%)
 4 Lone Tree (8%)
 3 Aurora (6%)
 3 Centennial (6%)
 2 Highlands Ranch (4%)
 1 Castle Pines (2%)

Complaints:

630 Greenwood Village
 456 Centennial
 349 UAC
 223 Castle Rock
 133 Other
 78 UDC
 65 Aurora
 26 Highlands Ranch
 25 Parker
 16 Lone Tree
 15 Denver
 2 Castle Pines

Households:

17 Other
 13 UAC
 13 Greenwood Village
 8 UDC
 5 Castle Rock
 5 Centennial
 5 Lone tree
 4 Aurora
 4 Parker
 3 Highland Ranch
 1 Castle Pines
 1 Denver

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

Greenwood Village – 512 (25%)	UAC – 146 (7%)
Centennial – 379 (19%)	UAC – 122 (5%)
Castle Rock – 180 ((9%)	

In May, 33 responses were requested from 512 noise complaints, with 15 of those requests made by email (45%), and 18 made by telephone (55%).

In May, 484 complaints were made about **daytime flights** (7:00 a.m. – 9:59 p.m.) – 95%
 28 complaints were made about **nighttime flights** (10:00 p.m. – 6:59 a.m.) – 5%

In May, props accounted for 75% of the complaints by aircraft type; jets accounted for 24% of the complaints; and 1% was about helicopters.

In May, departures were responsible for 43% of the complaints. Arrivals were responsible for 27% of the complaints, and Training was responsible for 30% of the complaints.

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

CACNR then returned to the remainder of its agenda.

5. **COMMITTEE REPORTS (continued):**

D. **NOISE MONITORS** – No report.

E. **WORK PLAN** – A revised/updated version of the CACNR Policies and Procedures was presented. There was a brief discussion of the FAA's prior concern about revenue diversion and the use of ACPAA funds. On the motion of Committee Chair Alison Biggs, duly seconded, the revisions were adopted.

6. **FAA REPORTS:**

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

7. **OTHER REGULAR MONTHLY REPORTS:**

A. **ACPAA** – The reports from Don Kuskie to the June 16, 2022 ACPAA meeting were provided, both for information and as examples for future CACNR Representatives to ACPAA to use when they prepare their reports. The more lengthy report is included in the ACPAA Board Packet sent to that Board prior to its meetings, along with CACNR's meeting minutes. The bulleted version of CACNR's Report is placed in the slide deck which is shown during the actual ACPAA meeting and is available to the public.

Robert Doubek presented his written report from the June 16, 2022 ACPAA meeting. There had also been discussion, with some expressed concern, about the possible change in the number of flight hours needed for pilots in training. It was reported United Airlines proposes to hire 60 new pilots a week.

Doubek then informed CACNR that he was resigning his position as the CACNR Representative from AOPA; he would remain on the ACPAA Board. John Hirshman would be assuming the role of the AOPA Representative to CACNR. CACNR Representatives expressed regret that Doubek would be leaving, and thanked him profusely for all the contributions he had made to the group in the 20+ years he had been its AOPA Representative.

B. **AIRPORT DIRECTOR'S REPORT** –

1. Flight School Engagement Meeting Summary – The agenda and meeting summary from the second flight school engagement meeting, held on June 20th, had been provided. Efforts are being made to utilize the west training boxes less, and to improve communications with the schools.

Copies of the Noise Abatement Guidelines were distributed, and all were requested to review them and let Samantha Blymyer know of any suggested changes or additions.

There had been consideration of ACPAA and CACNR providing some kind of incentive for flying quiet, for flight schools or student pilots.

It was noted the demand for pilots was overcoming the increased cost of fuel. ACPAA was provided with data on the amount of fuel sold at Centennial Airport, and request was made for that information to also be shared with CACNR. Mike Fronapfel indicated that could be done. The next meeting with the flight schools would be in September.

2. Airport Activity – Fronapfel reported Centennial Airport had been named as the "2022 Colorado Airport of the Year" by the Colorado Department of Transportation (CDOT) Division of Aeronautics. The award is presented annually to recognize Colorado public-use airports that exhibit outstanding contributions to the Colorado Aviation System. Airports with this recognition demonstrate values that fall in line with the CDOT Division of Aeronautics mission to advance a safe, efficient, and effective statewide aviation system through collaboration, investment, and advocacy.

Fronapfel reported the War Birds would be at the airport on July 9 from 10:00 – 2:00. It was unclear if the WW II aircraft would be offering rides to the public.

3. Legislative – Fronapfel indicated the airport was still waiting for the grant which would be used for the touch and go runway. When that arrives, that runway would be closed, so the remaining runways would assume more traffic and probably more resulting noise. Airport staff will let CACNR when that would occur, so neighborhoods can be informed.

4. Other – Fronapfel indicated Chris Thompson had been named as the airport's Manager of Communications/PIO. Thompson was introduced via phone, and indicated he was looking forward to attending future meetings. He was welcomed.

8. **OLD BUSINESS:**

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

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

9. **NEW BUSINESS:**

A. **INFORMATION SHARING** –A *Denver Post* article from this morning, entitled “Construction Taking Off At Centennial Airport” was shared. It was noted that DIA Chief Executive Phil Washington had been nominated by President Biden to head the Federal Aviation Administration (FAA). The nomination must be approved by the US Senate.

10. **PUBLIC COMMENT:** None

11. **NEXT MEETINGS:**

- A. **CACNR** –
- | | |
|-------------------|--|
| September 7, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| October 5, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| November 2, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
| December 7, 2022 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D |
- B. **ACPAA** –
- | | |
|-------------------|--|
| July 2022 | NOT MEETING |
| August 11, 2022 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D – John Hirshman for CACNR |
| September 8, 2022 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D |
| October 13, 2022 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D |
| 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 7:42 p.m.

Alison Biggs, Secretary

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE				2022 BUDGET - Approved October 6, 2021
				updated to reflect carryover from 2021
		CACNR 2022 BUDGET	ACTUAL TO DATE	NOTES
INCOME:			as of 07/28/2022	
CARRY OVER FROM 2021	\$	4,765.75	\$ 4,765.75	carry over from 2021
ACPAA	\$	10,000.00	\$ 10,000.00	
CACNR REGULAR MEMBERS	\$	13,250.00	\$ 13,250.00	
TOTAL INCOME:	\$	28,015.75	\$ 28,015.75	
EXPENDITURES:				
WORK PROGRAM:				
COMMUNITY OUTREACH	\$	2,000.00	\$ -	Website maintenance and various projects tbd
FLY QUIET	\$	1,000.00	\$ -	Various Projects tbd
NOISE MONITOR	\$	1,000.00	\$ -	Various Projects tbd
WORK PLAN	\$	500.00	\$ -	Orientation manual, annual report, other projects tbd
EDUCATION				
2 Reps to UC Davis Symposium	\$	5,000.00	\$ 2,180.45	Symposium to be at UC Davis; estimate based on prior on-site symposiums
2 Reps to 2 N.O.I.S.E. Conferences	\$	4,000.00	\$ -	Based on prior years' on-site conferences
			\$ -	
CONSULTATION/ TASK SUPPORT	\$	2,000.00	\$ 525.00	Projects with Jason Schwartz
MEMBERSHIP DUES	\$	1,000.00	\$ 1,000.00	N.O.I.S.E.
ADMINISTRATIVE	\$	1,000.00	\$ -	Part time secretarial assistance
	\$	1,000.00	\$ -	Legal
RESERVE	\$	9,515.75	\$ -	for presently unidentified and unanticipated expenses and/or additional CACNR activities consistent with the approved Work Plan.
TOTAL EXPENDITURES:	\$	28,015.75	\$ 3,705.45	
CURRENT BALANCE			\$ 24,310.30	
CARRY OVER TO 2023	\$	-		Actual to be determined at the end of 2022
** Usually includes registration, travel, ground transportation, lodging, meals.				
FRAME OF REFERENCE: MOU Funding Structure adopted 12/13/2018 calls for initial funding to generate \$22,250, with \$10,000 from ACPAA and \$12,250 to come from CANR's Regular Members. "This funding would be in place for the next two years, subject to annual appropriations. Thereafter, CACNR will provide ACPAA and each Regular Member with a report on the previous year's expenditures, and an annual invoice accompanied by a proposed budget indicating how the requested funds would be utilized, so that funds could be appropriated for the coming year."				
PLEASE NOTE FUNDING FROM ACPAA AND REGULAR MEMBERS WAS NOT REQUESTED FOR 2020 and 2021 DUE TO THE ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC. IT IS ANTICIPATED THE SECOND YEAR OF THE FUNDING STRUCTURE OUTLINED ABOVE WILL BE RESUMED FOR 2022				



Centennial Airport Monthly Noise Report



June 2022

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1 Definitions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

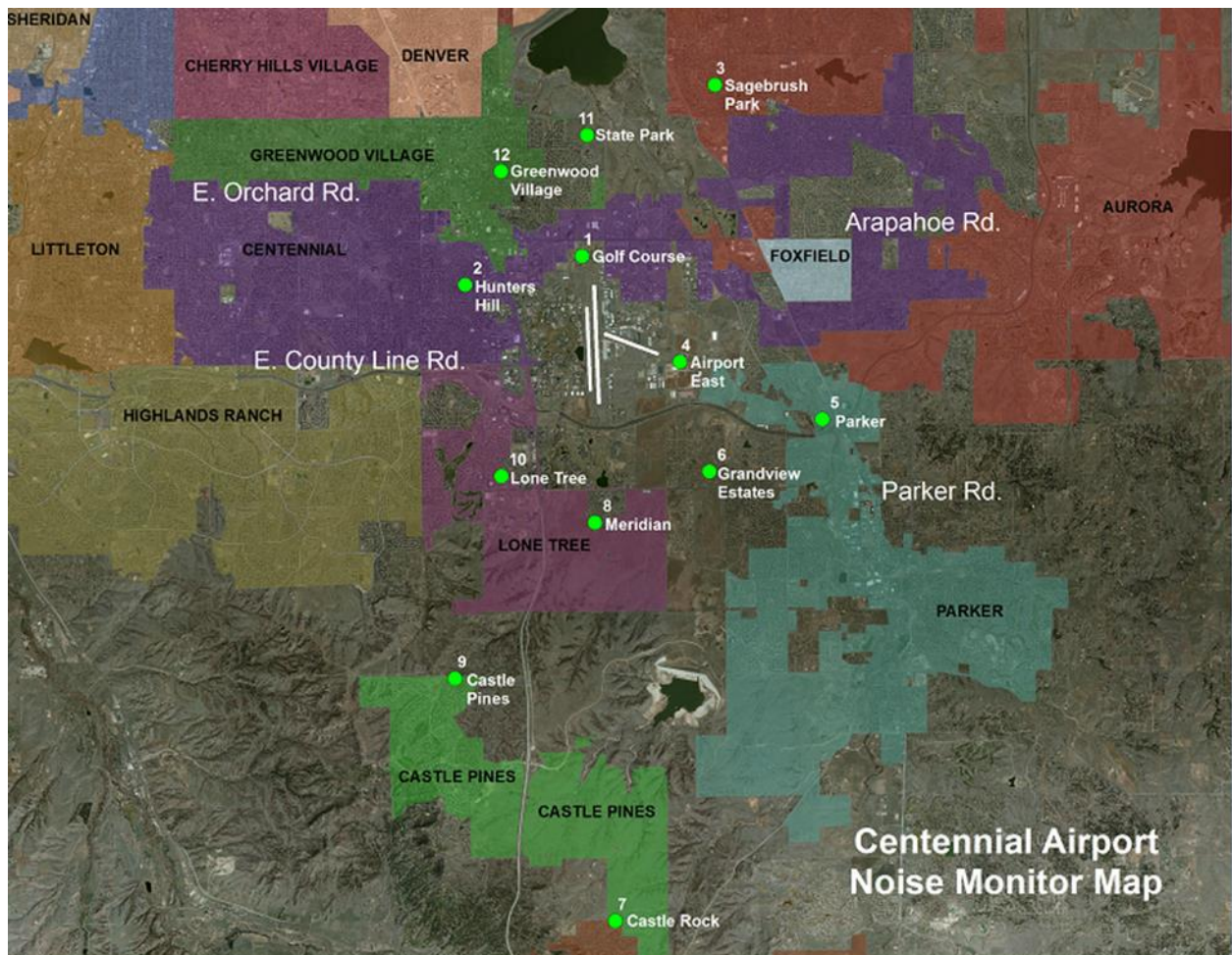
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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

Overview

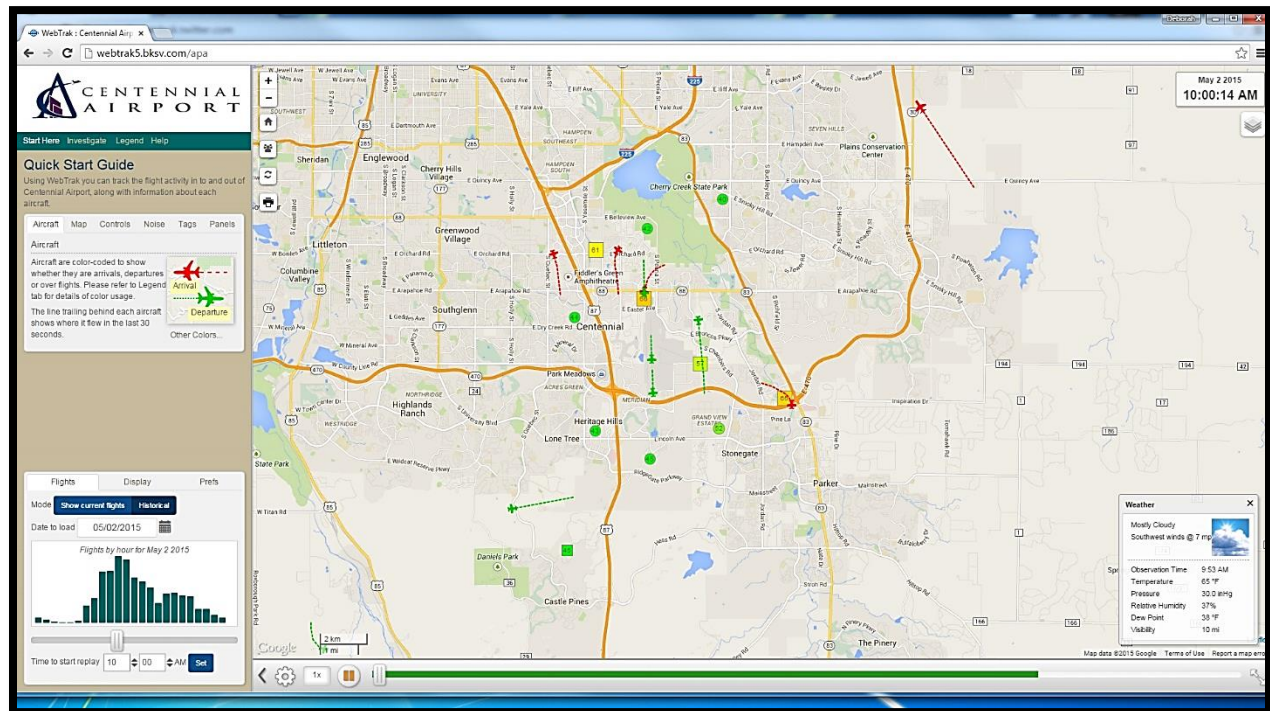
3 ABOUT APA'S NOISE MONITORING PROGRAM

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



4 ABOUT WEBTRAK™

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



How to participate

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

APA WebTrak: <https://viewpoint.emsbk.com/apa8>

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

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

APA Noise Hotline:
303-790-4709

5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR ININERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,494	3,405	114	6,013	1,133	5,391	88	6,612	9,190	78	9,268
February	2,396	3,396	98	5,890	1,247	5,624	105	6,976	9,863	38	9,901
March	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				0				0			0
August				0				0			0
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	15,371	21,690	998	38,059	7,472	35,177	681	43,330	63,263	290	63,553

	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				0				0	July	
August				0				0	August	
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	16	30	4	50	257	777	63	1,097	Y-T-D Totals	146,089

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:

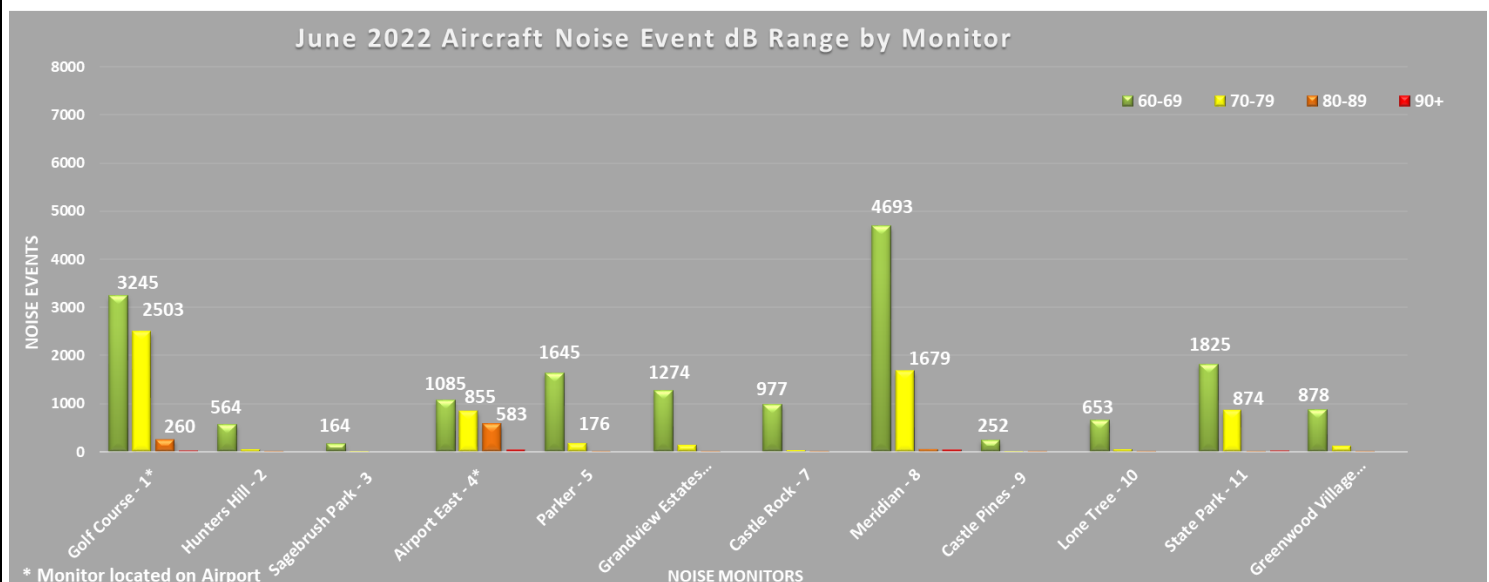
First, the noise event must exceed the ambient noise level. This number varies at every monitor but is generally greater than 50-55db. Secondly, the noise event must last longer than 5 seconds. Lastly, using radar data, the system must correlate an aircraft with the noise event. This ensures that the 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.

June 2022 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	3245	2503	260	12	6020
Hunters Hill- 2	564	57	1	0	622
Sagebrush Park- 3	164	12	0	0	176
Airport East- 4*	1085	855	583	31	2554
Parker- 5	1645	176	2	0	1823
Grandview Estates- 6	1274	137	1	0	1412
Castle Rock- 7	977	41	1	0	1019
Meridian- 8	4693	1679	57	41	6470
Castle Pines- 9	252	22	1	0	275
Lone Tree- 10	653	52	4	0	709
State Park- 11	1825	874	10	1	2710
Greenwood Village- 12	878	129	8	0	1015
Totals	17255	6537	928	85	24805

*NMT 1 was down from June 20th to June 30th

*Monitor located on Airport



7 JUNE 2022 NOISE COMPLAINTS

In June, Centennial Airport received 502 complaints from 46 households.

June Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	Census 2018
Arapahoe County Unincorporated	120	9	469	15	83,764
Aurora	18	2	83	5	374,114
Castle Pines	5	2	14	3	10,507
Castle Rock	47	3	270	5	64,827
Centennial	118	5	574	7	110,831
Cherry Hills Village	0	0	0	0	6,650
Denver	1	1	16	2	716,492
Douglas County Unincorporated	19	8	97	10	100,536*
Greenwood Village	133	6	763	15	15,801
Highlands Ranch	11	3	37	4	105,264
Lone Tree	4	2	20	6	14,653
Parker	1	1	26	5	55,636
Other	25	4	151	19	UNK
Total	502	46	2520	96	1,659,075

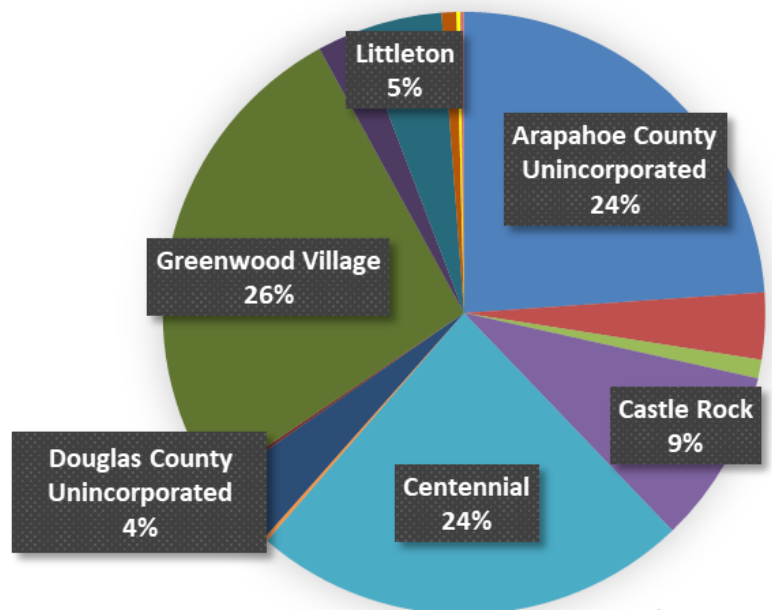
*Douglas County Unincorporated Population with Highlands Ranch Removed

*Other: Littleton, Englewood, Boulder

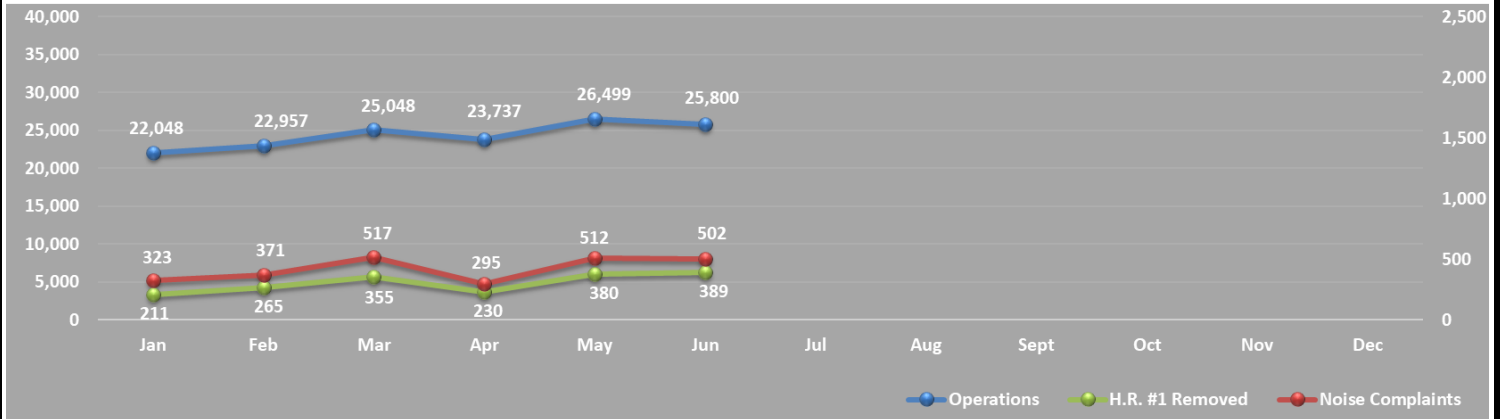
Noise Complaints Response Requested	
Email	18
Phone	20
Total	38

Time Complaint Received	June
Day Hours (7:00 am - 9:59pm)	458
Night Hours (10:00 pm - 6:59 am)	44
TOTAL	502

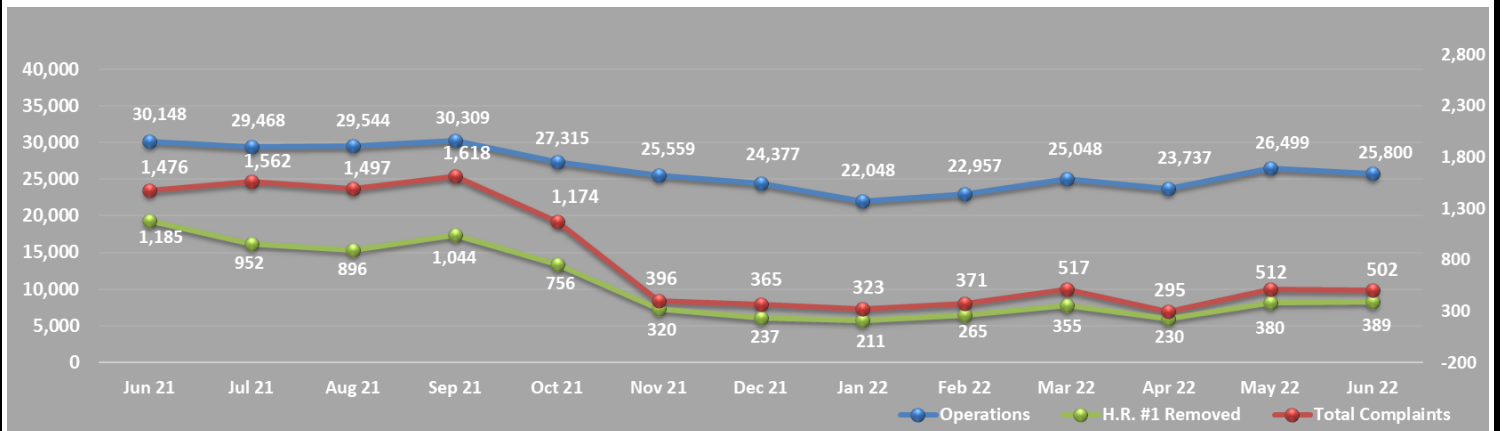
Complaints per Municipality



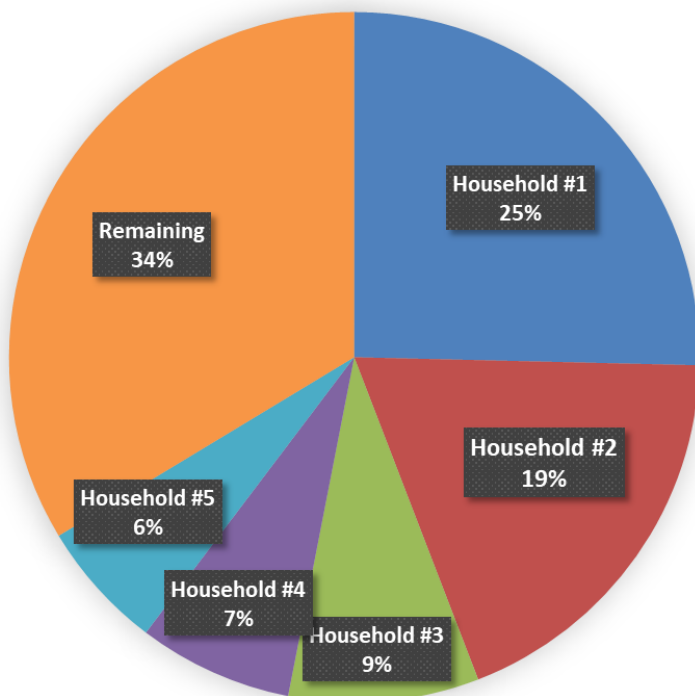
Current 12 Month Trend



Previous Year 13 Month Trend



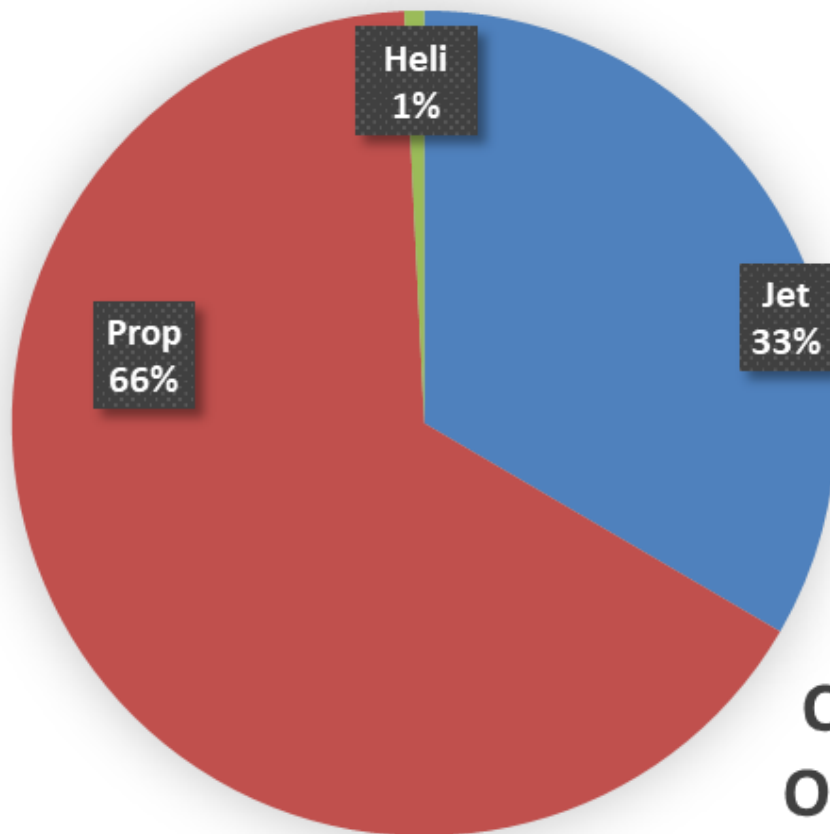
Top 5 Household Complaints YTD



Top 5 Household Complaints		
Household	Complaints	Households
Household #1	625	Greenwood Village
Household #2	484	Centennial
Household #3	225	Castle Rock
Household #4	189	Arapahoe County Unincorporated
Household #5	142	Arapahoe County Unincorporated
Remaining	855	
Total	2,520	

Complaints by Aircraft Type

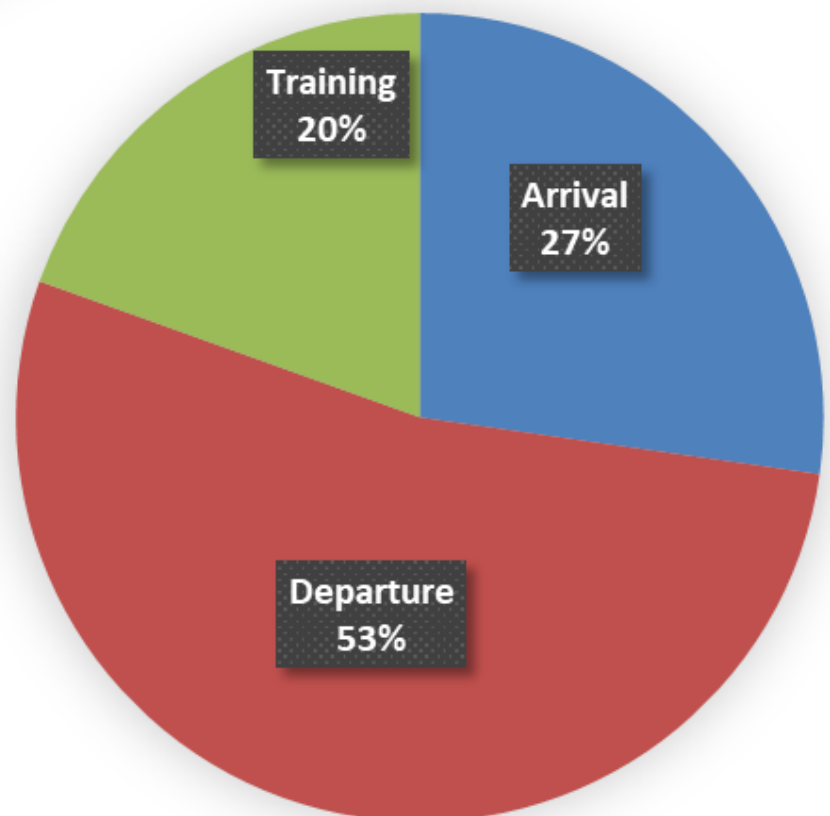
June 2022



*#1
Household
Removed

Complaints by Operation Type

*#1
Household
Removed



8 NOTES AND DISCLAIMER

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

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



Noise Hotline: 303-790-4709

www.centennialairport.com

FOLLOW UP ITEMS FOR EXECUTIVE/WORK PLAN COMMITTEE and INDIVIDUALS

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

2021-2023 PRIORITY TASKS

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

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

EXECUTIVE AND WORK PLAN COMMITTEES from CACNR MEETING MINUTES

EXECUTIVE COMMITTEE

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

WORK PLAN COMMITTEE

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

INDIVIDUALS from CACNR MEETING MINUTES

1. Follow up to be done with Jason Crow re Congressional Quiet Skies Caucus. **Brad Pierce/Emily Tranter (N.O.I.S.E.)** 03/03/21, 06/01/22 **In progress**
2. Provide link to the report from the U.S. Department of Transportation, Office of Inspector General to Colorado members of Congressional Quiet Skies Caucus. **Brad Pierce/Emily Tranter** 05/05/21
3. Provide information re the town of Elizabeth becoming CACNR member to Kim Hellweg **Brad Pierce** 12/01/21
4. Make additional appointment to committees. **Brad Pierce** 04/06/22
5. Donna Johnston putting together something about Centennial Airport for Greenwood Village – Donna to work with Mike Fronapfel (could share with all??) **Donna Johnston** 06/01/22

ALL COMMITTEES

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

5. Get ideas for updating NAG to Samantha – 07/06/22OTHER

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**

ALL COMMITTEES

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FOLLOW UP ITEMS FOR FLY QUIET COMMITTEE

From 2021-2023 Work Program for Fly Quiet Committee

2021 – 2023 PRIORITY TASKS

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

FLY QUIET COMMITTEE from CACNR Meeting Minutes

1. Continue work to identify location of 2nd noise abatement sign. **08/04/21** in progress
2. Continue exploring incentives for voluntary use of fly quiet procedures; **09/01/21** in progress
 - a. exploring how hotline information is collected and used at other airports
 - b. possibly pursue inviting those high on the complaint list to learn more about how their actions affect the communities.
3. If appropriate, share information about carbon fiber composite materials and how propeller upgrades might take advantage of reduced power settings, resulting in less noise, weight reduction, longer service life, and possibly increased cruise speed with pilots and with flight schools. **10/06/21** in progress
4. Fly Quiet reconsidering approach to recognizing pilots who fly quiet. **11/03/21**
5. See if Noise Abatement Guidelines (NAG) should be updated **02/03/21**
6. Staff updates awaited for adding Noise Abatement Guidelines to Whispertrack's electronic tablet application. **with Rachel Keller now Mike Fronapfel and/or Samantha Blymyer** **6/02/21**
7. Follow up on sign noise abatement message with new airport Manager of Communications – **06/01/22**

ALL COMMITTEES

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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

ALL COMMITTEES

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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****ALL COMMITTEES**

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