



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

AGENDA

October 4, 2023

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 meetings in person, or virtually.

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>	Leslie Summey/Sreenivasan Alakappan	<i>Foxfield:</i>	Pam Thompson/Frank Lawrence
	Paul Krier/Vacant	<i>Greenwood Village:</i>	Donna Johnston/Libby Barnacle
<i>Douglas County:</i>	Abe Laydon/Dan Avery	<i>Highlands Ranch Metro Dist.</i>	Andy Jones/Renee Anderson
	Alison Biggs/Mark Adams	<i>Lone Tree:</i>	Mike Anderson/Chuck Darnell
<i>Aurora:</i>	Brad Pierce/Mindy Parnes	<i>Parker:</i>	Ashley Chasez/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>	Robert Eber/Randy Weil	<i>CDOT Aeronautics Div:</i>	Todd Green/Vacant
		<i>Wings Over the Rockies:</i>	Bill Wasmund Jordan Ashley

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

- A. DRAFT MINUTES, September 6, 2023 – Alison Biggs, Secretary
- B. TREASURER'S REPORT, September 2023 – Andy Jones, Treasurer, Samantha Blymyer, ACPAA Staff
- C. NOISE REPORT, August 2023 - Samantha Blymyer, ACPAA Staff

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

4. **SPECIAL PRESENTATION – DOUGLAS COUNTY PLANNING DEPARTMENT:** Dan Avery

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

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

- A. RECEIVED BY CACNR
- B. MEETING ATTENDEES

7. **EXECUTIVE COMMITTEE:**

- A. TO REPRESENT CACNR AT OCTOBER 12, 2023 ACPAA MEETING
- B. SEPTEMBER 26, 2023 RETREAT
- C. 2024 DRAFT BUDGET

8. **COMMITTEE REPORTS:**

- A. COMMUNITY OUTREACH – Mike Anderson, Chair
- B. FLY QUIET – Bill Wasmund, Chair
- C. NOISE MONITORS – Candace Moon, Chair

9. **OTHER REGULAR REPORTS:**

- A. AIRPORT DIRECTOR – Mike Fronapfel
 - 1. Flight School Activity
 - 2. Part 150 Study Update
 - 3. Aviation Fuel – How Much Sold/What Kind
 - 4. Community Related Activity

- 5. Other Airport News
- 6. Legislative
- 7. Status of Follow Up Items

10. **OLD BUSINESS:**

- A. 2023-2024 CACNR Attendance Record

11. **NEW BUSINESS:**

- A. INFORMATION SHARING
 - 1. Representatives' Comments
 - 2. Other

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

13. **NEXT MEETINGS:**

- | | | |
|-------------------|--------------------|---|
| A. CACNR – | November 1, 2023 | 6:30 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO |
| | December --, 20223 | NO MEETING |
| B. ACPAA – | October 12, 2023 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO |
| | November 9, 2023 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO |
| | December 14, 2023 | 3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO |

14. **ADJOURN:**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE MINUTES

September 6, 2023

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 6:32 p.m. by Chair Brad Pierce. The following were in attendance, and a quorum was present:

Arapahoe County:	Leslie Summey	Foxfield:	Pam Thompson
Arapahoe County:	Paul Krier	Highlands Ranch:	Andy Jones
Douglas County:	Dan Avery	Lone Tree:	Mike Anderson
Douglas County:	Alison Biggs	Parker:	Ashley Chasez
Aurora:	Brad Pierce	ACPAA:	Mike Fronapfel
Castle Pines:	Chris Eubanks	AOPA:	John Hirshman
Centennial:	Candace Moon	CABA:	Don Kuskie
		Wings Over the Rockies:	Bill Wasmund

Others in attendance were ACPAA staff Samantha Blymyer, Chris Thompson, and Lauren Wiarda.

Those absent were: Castle Rock: Laura Cavey/Sandy Vossler Greenwood Village: Donna Johnston/Libby Barnacle
Cherry Hills Village: Robert Eber/Randy Weil CDOT Aeronautics Div: Todd Green/Vacant

2. **CONSENT AGENDA:** The Consent Agenda included the Draft CACNR Minutes from August 2, 2023; a Treasurer's Report from August 30 2023, showing a balance of \$28,575.35; and the July 2023 Noise Report. On the motion of Andy Jones, duly seconded, the Consent Agenda was approved.

The **July 2023 Noise Report** included the following information:

July Local Operations:	18,786	July Total Operations:	35,168
Year to Date Local Operations:	109,168	Year to Date Total Operations:	203,357

35,168 Total Operations in July resulted in 1,187 complaints from 109 households.

July Noise Events:

<u>July Total:</u>	<u>July 60 – 69 db:</u>	<u>July 70 – 79 db:</u>	<u>June 80 – 89 db:</u>
Golf Course 10,056	Meridian 6,395	Golf Course 4,257	Airport East 637
Meridian 8,329	Golf Course 5,564	Meridian 1,875	Golf Course 218
Airport East 3,663	Parker 1,899	Airport East 1,121	Meridian 54
State Park 2,595	Airport East 1,859	State Park 776	Grandview Estates 20
Parker 2,112	State Park 1,805	Grandview Estates 212	Lone Tree 17
Grandview Estates 1,873	Grandview Estates 1,639	Parker 208	State Park 12
Greenwood Village 1,133	Castle Rock 1,058	Greenwood Village 108	Greenwood Village 9
Castle Rock 1,096	Greenwood Village 1,016	Lone Tree 82	Hunters Hill 9
Lone Tree 821	Lone Tree 721	Hunters Hill 60	Parker 5
Hunters Hill 584	Hunters Hill 512	Castle Rock 35	Castle Rock 3
Castle Pines 286	Castle Pines 272	Castle Pines 13	Castle Pines 1
Sagebrush Park 171	Sagebrush Park 160	Sagebrush Park 11	Sagebrush Park -

July Noise events in the 90+ decibel range: Airport East – 46 Golf Course – 17 Meridian – 5 Hunters Hill – 3
Grandview Estates – 9 State Park – 2 Lone Tree – 1

<u>July Noise Complaints and</u>	<u>Numbers of Households:</u>	<u>YTD Complaints and</u>	<u>Number of Households:</u>
(1,187)	(109)	(6,067)	(296)
Unincorporated Arapahoe County 445 (38 %)	UAC 55 (50%)	UAC 2700 (45%)	UAC 144(49%)
Greenwood Village 274 (23%)	Greenwood Village 20 (18%)	GW Village 1,773 (29%)	GV 58 (20%)
Parker 168 (14%)	UDC 11 (10%)	Centennial 509(8%)	Other 21 (7%)
Centennial 107 (9%)	Other 5 (5%)	Parker 397 (7%)	UDC 17 (6%)
Castle Rock 76 (6%)	Aurora 4 (4%)	UDC 234 (4%)	Parker 11 (4%)
Unincorporated Douglas County 63 (5%)	Castle Rock 3 (3%)	Castle Rock 209 (3%)	Centennial 10 (3%)
Denver 36	Centennial 3	Denver 80	Lone Tree 9
Aurora 9	Parker 3	Other 70	Aurora 8
Other 5	Denver 2	Aurora 48	Castle Rock 6
Lone Tree 3	Lone Tree 2	Lone Tree 28	Highlands 5
Castle Pines 1	Castle Pines 1	Highlands Ranch 13	Denver 4
Cherry Hills Village 0	Cherry Hills Village 0	Castle Pines 6	Castle Pines 3
Highlands Ranch 0	Highlands Ranch 0	Cherry Hills V 0	Cherry Hills 0

Year to Date, the top five households complaining were:

Household #1	1,114	Greenwood Village	Household #4	382	Parker
Household #2	556	Unincorporated Arapahoe County	Household #5	319	Unincorporated Arapahoe County
Household #3	488	Centennial			

In July, 76 responses were requested from 1,187 noise complaints, with 64 of those requests made by email (84%), and 12 made by telephone (16%).

In July, 1,031 complaints were made about **daytime flights** (7:00 a.m. – 9:59 p.m.) – 87%.

156 complaints were made about **nighttime flights** (10:00 p.m. – 6:59 a.m.) – 13%.

In July, props accounted for **81% of the complaints by aircraft type**; **jets** accounted for **18% of the complaints**, and **helicopters caused 1%**.

In July, departures were responsible for 43% of the complaints, **training** was responsible for 34% of the complaints, and **arrivals** were responsible for 23% of the complaints.

The July Complaint Map and a July Radar Track Density Map were provided.

3. **ITEMS REMOVED FROM THE CONSENT AGENDA:** None

4. **PUBLIC COMMENT:**

1. Received by CACNR – one email had just come in, primarily expressing concern about the WW II planes which had been giving rides to the public from Centennial Airport during the Labor Day weekend, with the resulting noise and lead pollution that had been caused. The CACNR Secretary would respond.

2. Meeting Attendees - Chair Pierce opened the meeting for public comment. There were approximately 15 in attendance and another 27 on line. The majority of those commenting were from Englewood, Greenwood Village, Sundance Hills in Greenwood Village, Centennial, Orchard Hills in Greenwood Village, Cherry Creek Vista in Unincorporated Arapahoe County, Cherry Creek Farms, Ponderosa Park, Elizabeth and Louviers. Comments are summarized below:

A representative from the Colorado Pilots Association spoke about various things his organization was doing related to the noise abatement guidelines, and the impacts of noise. It was trying to work with the flight schools since he noted we are all in this together for the good of everyone. Various guideline topics were covered on the association's YouTube platform and website. He noted pilots tend to 'follow the leader' when an extended pattern has been called for by air traffic control.

The generalized overall thoughts throughout were that things have either not changed or have gotten much worse in the last year. What good does it do to make concerns known if nothing is ever accomplished? Will the public ever be listened to?

It seemed the 'closure' of the southwest training area had not really done anything other than move traffic from one place to another, with planes from other airports taking over the prior training area. Although there were several newly placed boxes in the south east training area, it sometimes seemed only one was being used constantly while the others were totally unused.

Those outside the land use guideline areas were getting more and more pattern work overhead. Question was asked if the airport, as it keeps growing, ever think about telling the public about what it was doing and planning for the next several years. Did the airport really need all the grant money from the FAA, and did it really need to spend so much for another Part 150 study? Response was the airport was working to reduce overflights over the communities as much as possible, noting increased traffic being seen lately may be from jets rather than flight schools. The Part 150 should help to identify areas where improvements can be made if allowed by the FAA.

Once again, and from several speakers, there had been no change except things had gotten worse. Noise started very early in the morning and continued frequently until midnight, with some reports of flights at 2:00 a.m. and 5:00 a.m. It seemed planes were coming and going at lower altitudes as well. The last Part 150 study did not really help the neighborhoods; there was hope the next one would. The area was lucky the mid-air collision was not over a populated area but would the next one be so lucky or would the FAA pay attention only if someone died. The latest crash, also fortunately not over a populated area, was still being investigated. Would the Work Study Group actually come up with solutions?

Question was asked if ACPAA has to accept requests for opening new flight schools. Response was yes, if the request meets the airport's Minimum Standards. However, it is expensive to operate here, although demand drives the cost. Waiting lines also can negatively affect attractiveness. It was noted the airport's cheap fuel was attractive to pilots although that may change with one less FBO on site. Could there be some use of "the pattern is full" to control the amount of traffic?

CACNR has no authority to change anything, and it seems ACPAA is stacked against the public as there are not community supporters on it. The burdens of the airport are born solely by the public and the benefits are for the pilots, the flight schools and the airport itself. Suggestion was made for CACNR to work to get people off ACPAA and replaced with those who might care as much for the public as they do for the pilots and the airport.

Another request was made for the flight schools to come to CACNR to tell us how they are addressing community concerns, if they are. The 'bosses' at the flight schools need to tell their pilots and instructors what to do to help with noise.

Several examples were given of the effects of noise and lead on children, the anxiety levels of elderly parents, and those trying to work from home.

A written FAA response to a citizen's complaint still insisted it had done nothing to effect change at Centennial since the mid-air collision. The letter would be shared with the FAA representatives on the Study Group Committee.

A pilot with a flight school who had now attended two CACNR meetings in the audience indicated it is a pain to extend the pattern past Arapahoe Road, but when the tower says to extend, they have to do it. He noted that one school tended to fly huge patterns. He also noted that the southeast box closest to the airport is the one that is used the most because it is closest to the airport, while several of the others further away may have no traffic at all. He was thanked for coming and for sharing his perspectives. Hopefully he would come again, and others might join him.

5. **CACNR STUDY GROUP COMMITTEE:** One flight school (Aspen Flying Club) had attended every meeting of this committee, and had also embraced the use of unleaded fuel. It seemed the FAA might actually be trying to figure out how to help the situation here, but it had asked for patience while that occurred. There is much red-tape and FAA structure which must be dealt with, and that takes time. It may take chipping away rather than one main change, but the FAA Representatives on the committee seemed to be trying. There is a target of September 30 for an FAA-approved report from the group.

6. **EXECUTIVE COMMITTEE:**

Notes - the September ACPAA meeting had been cancelled, so there was no need to appoint a CACNR representative for September.

Mike Whitaker had been nominated as the FAA Administrator.

A. RETREAT PLANNING – September 26 had been designated the date for the retreat; the location would be Wings Over the Rockies Exploration of Flight, Blue Sky Hangar, 13005 Wings Way, Englewood, Colorado 80112. Hours would be 9:00 – 3:00, with a continental breakfast and lunch provided.

B. FAA PUBLIC COMMENT PERIOD ON NOISE POLICY REVIEW – everyone present was asked to be sure to provide comments on this policy review.

C. FAA REAUTHORIZATION ACT OF 2023 – Comments should be sent to U.S. Senators.

7. **OTHER COMMITTEE REPORTS:**

A. COMMUNITY OUTREACH – The committee had not met, but all were reminded that it was hoped the content and purpose of the website would be considered at the retreat.

B. FLY QUIET – This committee had also not met.

C. NOISE MONITORS – In looking at getting additional information from the noise monitors, it had been agreed to focus particularly on monitors 10, 11, and 12, as they were the ones which seemed closest to areas where there had been the most impact from the FAA's action following the mid-air collision. Altitudes and speed ranges will be looked at, to see if they produce data which would be useful for the flight schools, or for targeting in comparison with decibels at the monitors. Mike Fronapfel indicated he would help with this project.

8. **OTHER REGULAR REPORTS:**

A. LAND USE REFERRALS –Samantha Blymyer presented the Land Use Review for the period from April 1, 2023 – June 30, 2023. Alison Biggs apologized for neglecting to get this topic on the agenda for several previous quarters; if anyone wanted to review those reports, they were available from Blymyer. Blymyer noted that there had been 24 referrals in this time period: 7 had been approved as submitted; 12 had been subject to comment; and 5 had not been recommended.

In looking at the map of the locations of projects not approved by the airport, it was noted that the airport continually gets referrals for work in areas where it has consistently said building in those areas should not be done. Noise and safety are the primary reasons such advice is given, yet referrals keep coming as though no one is paying any attention. Persons living in residential units in those areas will almost inevitably end up being bothered by noise and have safety concerns, even if their housing has had sound mitigation done – inside might have been noise mitigated, but nothing can be done about their outside spaces, and safety will always be a concern.

Mike Fronapfel indicated it would be very helpful to both noise and safety issues if all of the surrounding jurisdictions could be on the same page with land use guidelines and zoning. Response was that zoning had been in place for a very long time in many areas, and there were many other more important aspects which must be considered, not just noise. Zoning is hard to change for many, but some are updating their documents now and this should be a topic for sincere consideration.

Suggestion was made to invite jurisdictional planners to attend a CACNR meeting to hear the concerns of citizens about what is happening in areas surrounding Centennial Airport. This idea was met positively, and an attempt would be made to issue such an invitation in the near future. The issue would also be considered during the upcoming CACNR retreat.

B. ACPAA JUNE 8, 2003 – Brad Pierce had attended for CACNR, and his report to ACPAA was provided.

C. AIRPORT DIRECTOR'S REPORT, Mike Fronapfel

1. Study Group Committee – 6th meeting of this group would be September 6th and a progress report was anticipated by September 30th.
2. Flight School Activity – no meeting
3. Part 150 Study Update – a 2 million dollar grant for the Part 150 Noise and Land Use Compatibility Study would be going to the County on September 12th for its hopeful approval.
4. Aviation Fuel – How Much Sold/What Kind – As of May, 8,731 or 15% of the fuel sold was UL94; June, 11,637 or 17% was UL94, and in July, 13,332 or 18.8% was UL94.
5. Community Related Activity – Morgan Adam's 20th Concour's d' Elegance event to raise funds for pediatric cancer Raised \$1.2 million on Saturday August 26th.
6. Other Airport Activity – The tower elevator was down for over a month, and likely would be down for two more months before repairs were completed.

Tower sightings were in progress, including the physical location and required height of the tower so there could be a clear line of sight to all or most areas on the airport.

Mid-field and A1 (the furthest north run up area for the main runway) run-ups were complete.

The snow removal equipment building was being expanded to store additional equipment and provide an area for additional part storage and a crew rest area. The InterPort Boulevard reconstruction, Peoria Street landscaping improvements, and phase 1 of the security fencing upgrade on the west side of the airport property were in progress.

Muti function equipment would be delayed until March 2024 due to the sale of Oshkosh airport equipment to M-B.

The Four Points at Sheraton hotel is now expected to open in December.

The September ACPAA meeting had been cancelled since Fronapfel and Assistant Director Lorie Hinton would be out of town and there were no significant business items on the agenda. The next meeting would be on October 12.

7. Status of Follow-up Items – Inquiry was made if CACNR would be getting any kind of official response from ACPAA to the request it had made to the May, 2023 ACPAA meeting: "We request the ACPAA make addressing the increased noise and safety of citizens a top priority by 1) continuing its efforts to reach the FAA to arrange a technical committee meeting to address the increased traffic in the pattern; 2) working with the FAA and internally to address the safety issues identified in the NTSB report.

"We do therefore respectfully request the ACPAA place these issues as top priorities until the matters can be resolved."

#1 had been accomplished, but it was noted CACNR would appreciate learning if any action on #2 was planned, particularly in addressing the NTSB identified safety issued internally.

D. FLIGHT SCHOOLS – None

A. **OLD BUSINESS:** An updated CACNR attendance record had been provided.

B. **NEW BUSINESS:**

A. INFORMATION SHARING –

1. Representatives' Comments - Leslie Summey thanked all for attending the CACNR meetings and remaining engaged. As a newer member she sees who comes consistently and appreciated how frustrated the community is, and she is, that the CACNR has no power. She said she's grateful for those who continue to advocate for change in a positive way and urged others who claim to not see any change to focus on the fact that the FAA is now a part of the study group, when before she and Arapahoe County Commissioner Bill Holen went to Washington, DC and met with FAA representatives, there was no desire from the FAA to engage at the study group level. It was noted the pressure brought by many in Colorado, including the Governor, the Mayors of many of the involved jurisdictions, the County Commissioners of both Arapahoe and Douglas Counties, the two Colorado U.S. Senators, the U.S. Congressman in whose district Centennial Airport is located, ACPAA and CACNR among others had helped to encourage the FAA to send representatives to the Study Group Committee that had been meeting.

11. **PUBLIC COMMENT:** on-line, a long time citizen shared concerns similar to those voiced earlier in the meeting. She wondered if the Working Group would actually have the power to affect any changes here. She also expressed similar concerns about any next crash or collision in the area, and voiced an opinion that there was too much greed entering into the situation.

12. **NEXT MEETINGS:**

A. CACNR –	October 4, 2023	6:30 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
	November 1, 2023	6:30 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
	December, 20223	NO MEETING

B. ACPAA –	October 12, 2023	3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
	November 9, 2023	3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO
	December 14, 2023	3:00 p.m. 7565 S. Peoria Street, Unit 9D, Englewood, CO

13. **ADJOURNMENT:** The meeting was adjourned at 8:49 p.m.

Alison Biggs, Secretary

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE		2023 BUDGET - Approved October 5, 2022; Updated as of 10/02/23		
		BUDGET	ACTUAL	
INCOME:			as of 10/02/23	NOTES
CARRY OVER FROM PRIOR YEAR		\$ 23,000.00	\$23,791.15	Carry over from 2022
ACPAA		\$ 10,000.00	\$10,000.00	
CACNR REGULAR MEMBERS		\$ -		Members not invoiced for 2023 due to amount of carry over available
TOTAL INCOME:		\$ 33,000.00	\$33,791.15	
EXPENDITURES:				
WORK PROGRAM:				
COMMUNITY OUTREACH		\$ 2,000		WebsiteUpdating and Maintenance
		\$ 5,000		and MediaOutreach Project
FLY QUIET		\$ 1,000		Placeholder for Projects tbd
NOISE MONITOR		\$ 1,000		Exploration of desired data and software for 2024
EXECUTIVE/WORK PLAN		\$ 500		Orientation Manual, Annual Report
EDUCATION				
2 Reps to UC Davis Symposium		\$ 5,000	\$3,215.80	Symposium to be at UC Davis; estimate based on prior symposiums
2 Reps to 2 N.O.I.S.E. Conferences		\$ 4,000		based on prior years on-site conferences
CONSULTATION/ TASK SUPPORT		\$ 3,000	\$1,000.00	Projects with Jason Schwartz
MEMBERSHIP DUES		\$ 1,000	\$1,000.00	N.O.I.S.E.
ADMINISTRATIVE		\$ 1,000		Part time secretarial assistance
		\$ -		Legal
RESERVE		\$ 9,500.00		for presently unidentified and unanticipated expenses and/or work CACNR activities consistent with the approved Work Plan.
TOTAL EXPENDITURES:		\$ 33,000.00	\$5,215.80	
CARRY OVER TO 2024		\$ -	\$28,575.35	Actual to be determined at the end of 2023
** Usually includes registration, travel, ground transportation, lodging, meals.				
FRAME OF REFERENCE: The MOU Funding Structure adopted 12/13/2018 called for an initial two-year funding mechanism. "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."				



Centennial Airport Monthly Noise Report



August 2023

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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.

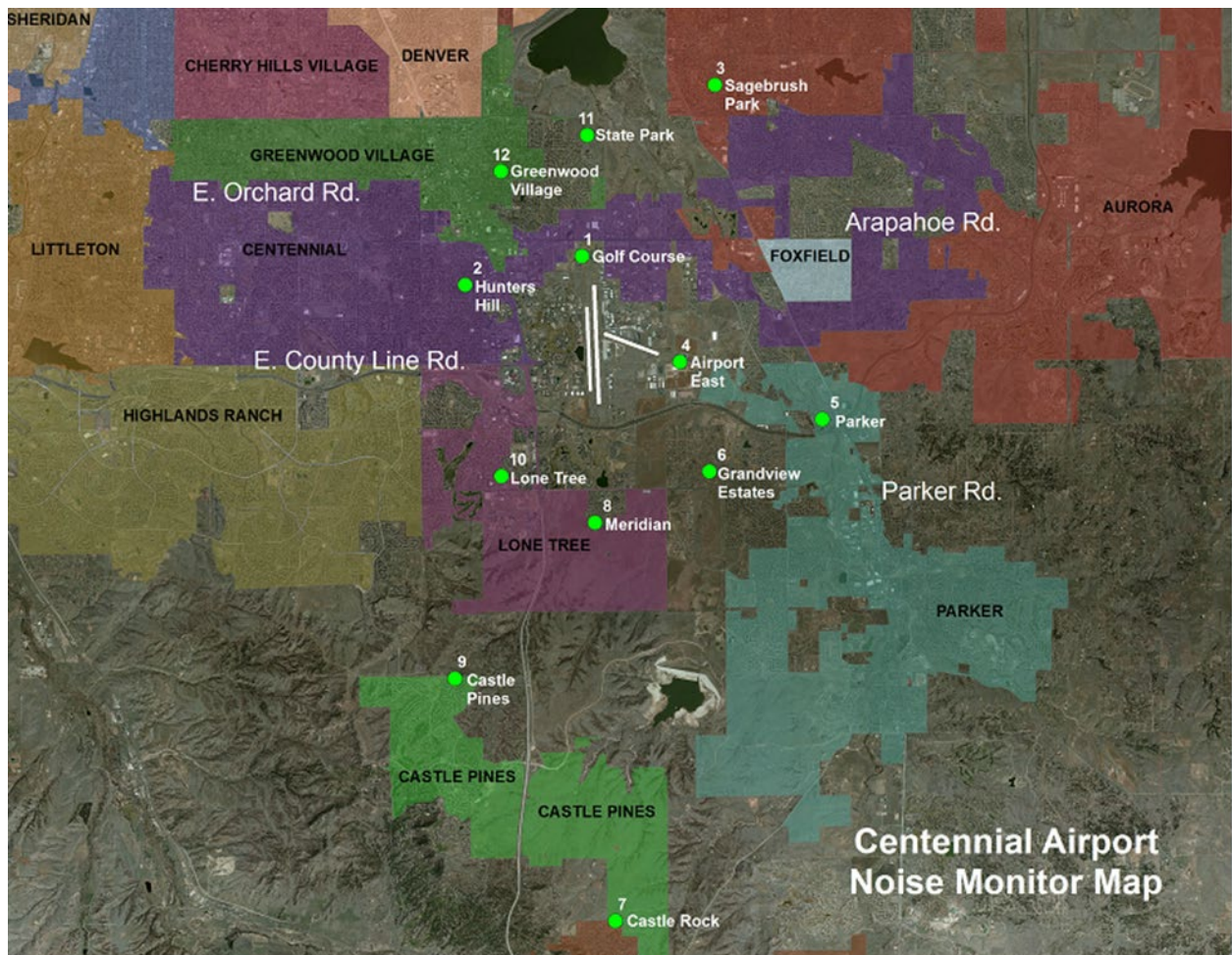
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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

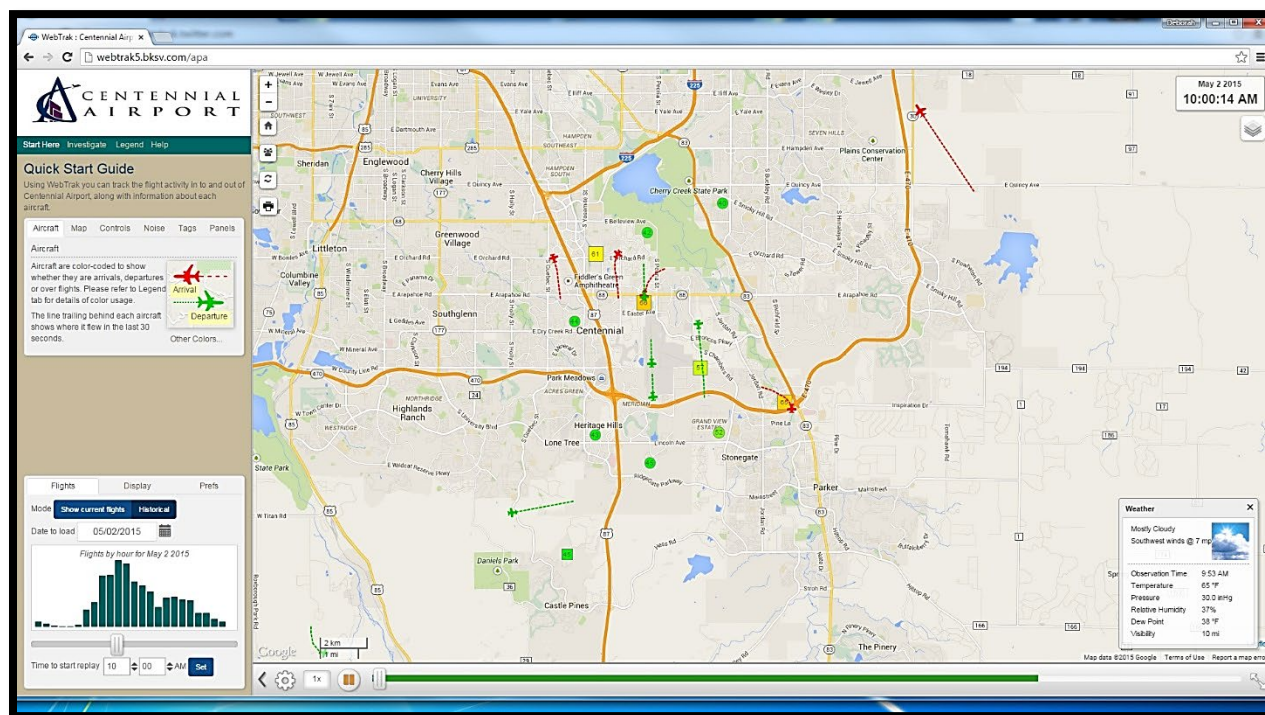
3 ABOUT APA'S NOISE MONITORING PROGRAM

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

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

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

APA Noise Hotline:

303-790-4709

5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR ITINERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL ITINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,304	3,055	99	5,458	896	5,213	69	6,178	11,936	25	11,961
February	2,180	2,883	123	5,186	1,046	5,388	85	6,519	12,426	20	12,446
March	2,512	3,260	187	5,959	1,555	5,523	100	7,178	14,989	20	15,009
April	2,152	2,693	144	4,989	1,616	6,550	137	8,303	16,940	40	16,980
May	2,556	3,026	175	5,757	1,542	5,734	116	7,392	17,833	21	17,854
June	2,584	3,338	165	6,087	1,544	6,277	159	7,980	16,101	31	16,132
July	2,524	3,341	189	6,054	1,999	8,004	131	10,134	18,733	53	18,786
August	2,536	3,434	245	6,215	2,283	8,727	118	11,128	21,173	29	21,202
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	19,348	25,030	1,327	45,705	12,481	51,416	915	64,812	130,131	239	130,370

	IFR OVERFLIGHTS				VFR OVERFLIGHTS					TOTAL OPERATIONS
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL		
January	2	4	4	10	43	73	11	127	January	23,734
February	6	4	2	12	31	80	1	112	February	24,275
March	0	0	3	3	24	90	4	118	March	28,267
April	3	5	2	10	37	79	13	129	April	30,411
May	1	5	0	6	32	120	8	160	May	31,169
June	2	9	1	12	29	87	6	122	June	30,333
July	6	12	3	21	28	138	7	173	July	35,168
August	8	12	5	25	32	86	7	125	August	38,695
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	28	51	20	99	256	753	57	1,066	Y-T-D Totals	242,052

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

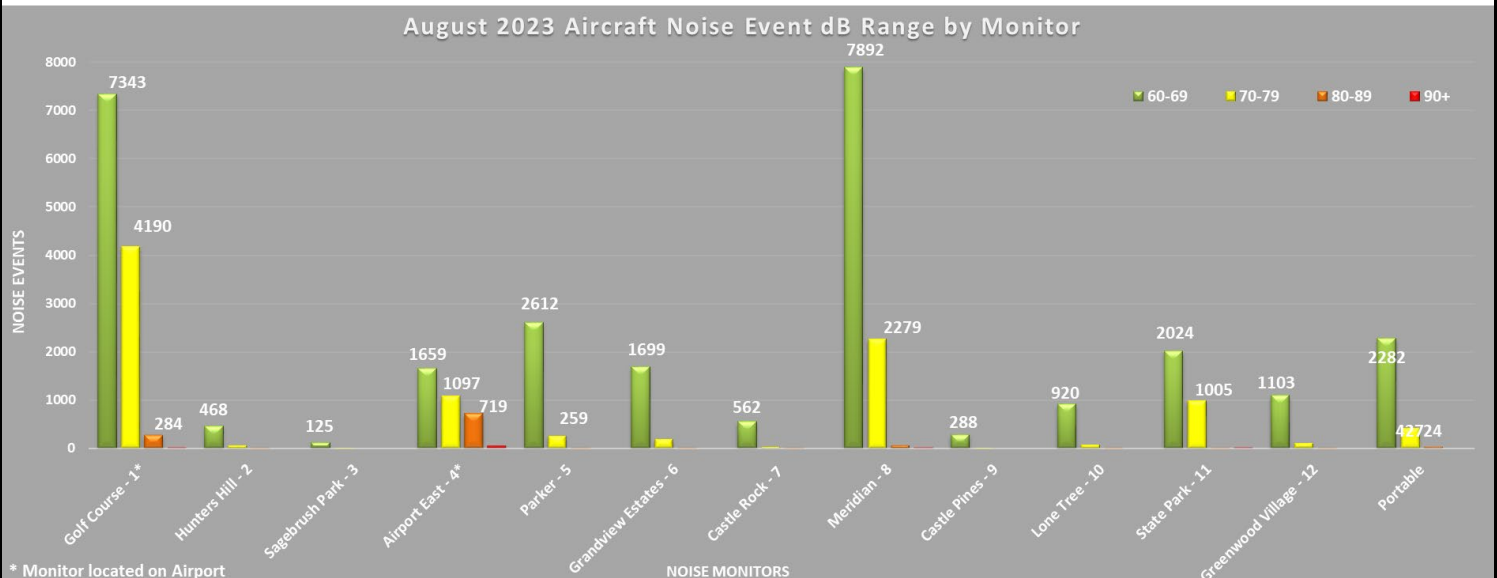
The following data displays the amount and associated decibel level of aircraft noise events at a given monitor. An aircraft noise event must contain the following characteristics:

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 2023 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course- 1*	7343	4190	284	15	11832
Hunters Hill- 2	468	71	7	0	546
Sagebrush Park- 3	125	9	0	0	134
Airport East- 4*	1659	1097	719	47	3522
Parker- 5	2612	259	2	0	2873
Grandview Estates- 6	1699	203	9	0	1911
Castle Rock- 7	562	24	1	0	587
Meridian- 8	7892	2279	63	8	10242
Castle Pines- 9	288	18	0	0	306
Lone Tree- 10	920	77	2	0	999
State Park- 11	2024	1005	11	2	3042
Greenwood Village- 12	1103	108	11	0	1222
Portable Station 31	2282	427	24	0	2733
Totals	28977	9767	1133	72	39949

*Monitor located on Airport



7 AUGUST 2023 NOISE COMPLAINT STATISTICS

In August, Centennial Airport received 1,574 complaints from 138 households.

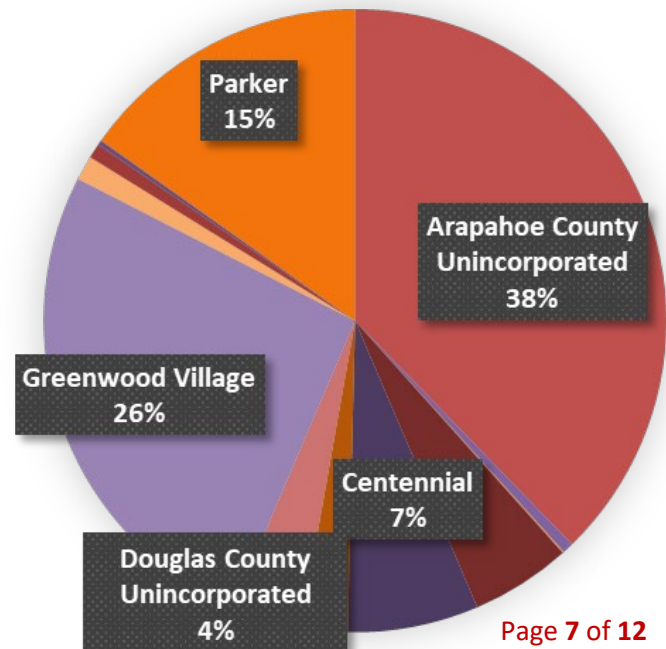
August Noise Complaints			YTD		Population
Municipality	Complaints	Households	Complaints	Households	Census 2020
Arapahoe County Unincorporated	594	61	3,294	169	98,066
Aurora	9	3	57	10	386,261
Castle Pines	1	1	7	3	11,036
Castle Rock	82	4	291	7	73,158
Centennial	107	5	616	13	108,418
Cherry Hills Village	0	0	0	0	6,442
Denver	38	2	118	4	715,522
Douglas County Unincorporated	57	10	291	19	276,493*
Greenwood Village	411	37	2,184	74	15,691
Highlands Ranch	20	6	33	10	103,444
Lone Tree	12	5	40	11	14,253
Parker	239	1	636	11	58,512
Other	4	3	74	22	UNK
Total	1,574	138	7,641	353	1,867,296

*Douglas County Unincorporated Population with Highlands Ranch Removed

August 2023 Noise Complaint Responses Completed	
Email	90
Phone	25
Total	115

Time Complaint Received	Aug
Day Hours (7:00 am - 9:59pm)	1,323
Night Hours (10:00 pm - 6:59 am)	251
TOTAL	1,574

Complaints per Municipality



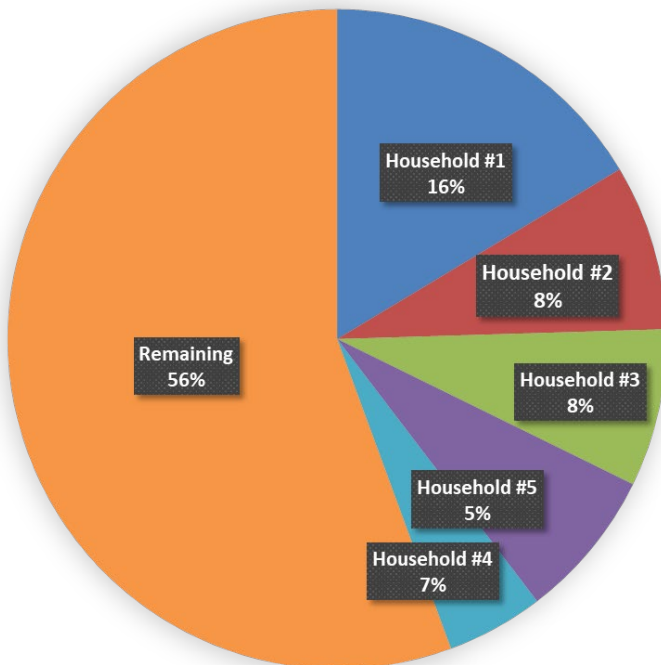
Current 12 Month Trend



Previous Year 13 Month Trend

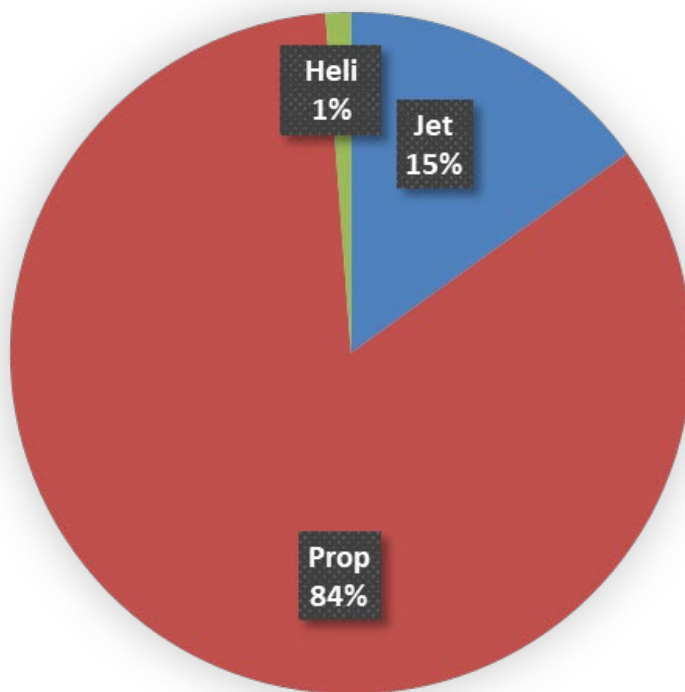


Top 5 Household Complaints YTD



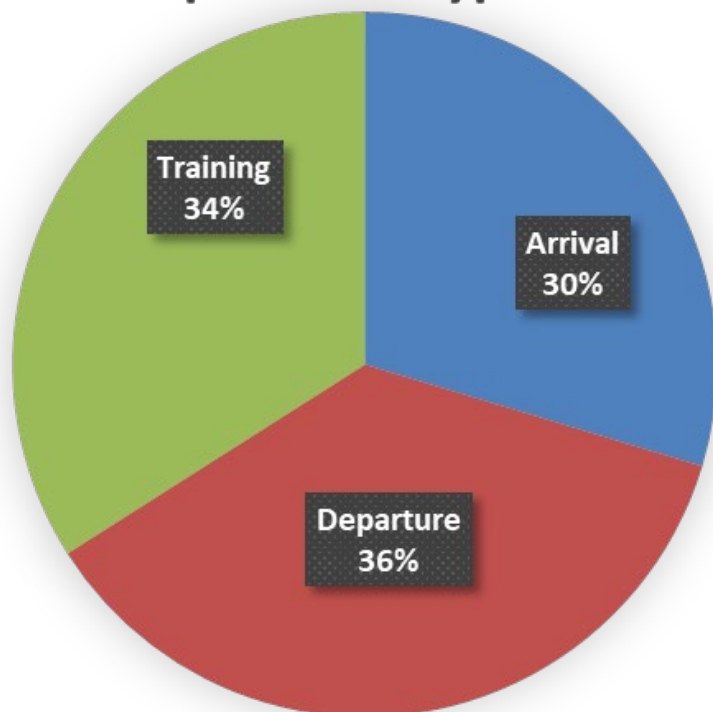
Top 5 Household Complaints		
Household	Complaints	Households
Household #1	1,253	Greenwood Village
Household #2	621	Parker
Household #3	591	Centennial
Household #4	563	Arapahoe County
Household #5	364	Arapahoe County
Remaining	4,250	
Total	7,642	

Complaints by Aircraft Type

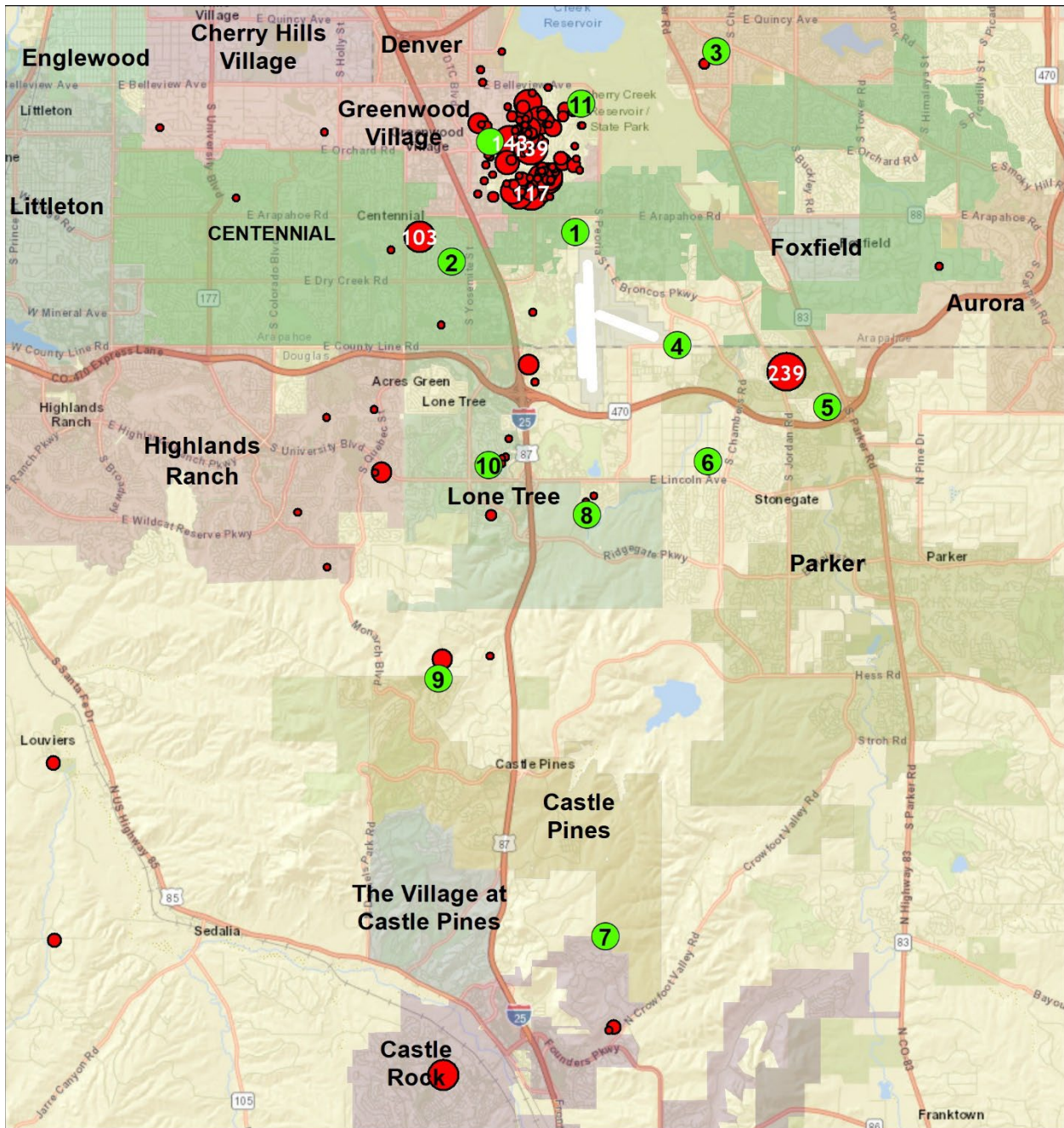


*#1
Household
Removed

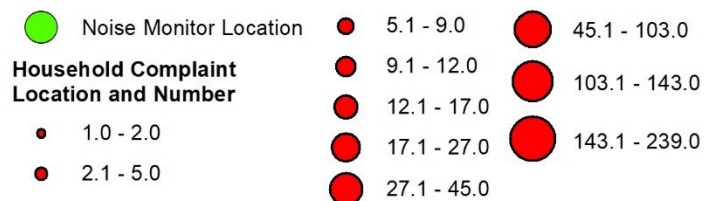
Complaints by Operation Type



8 CENTENNIAL AIRPORT COMPLAINT MAP



August 2023 Complaints

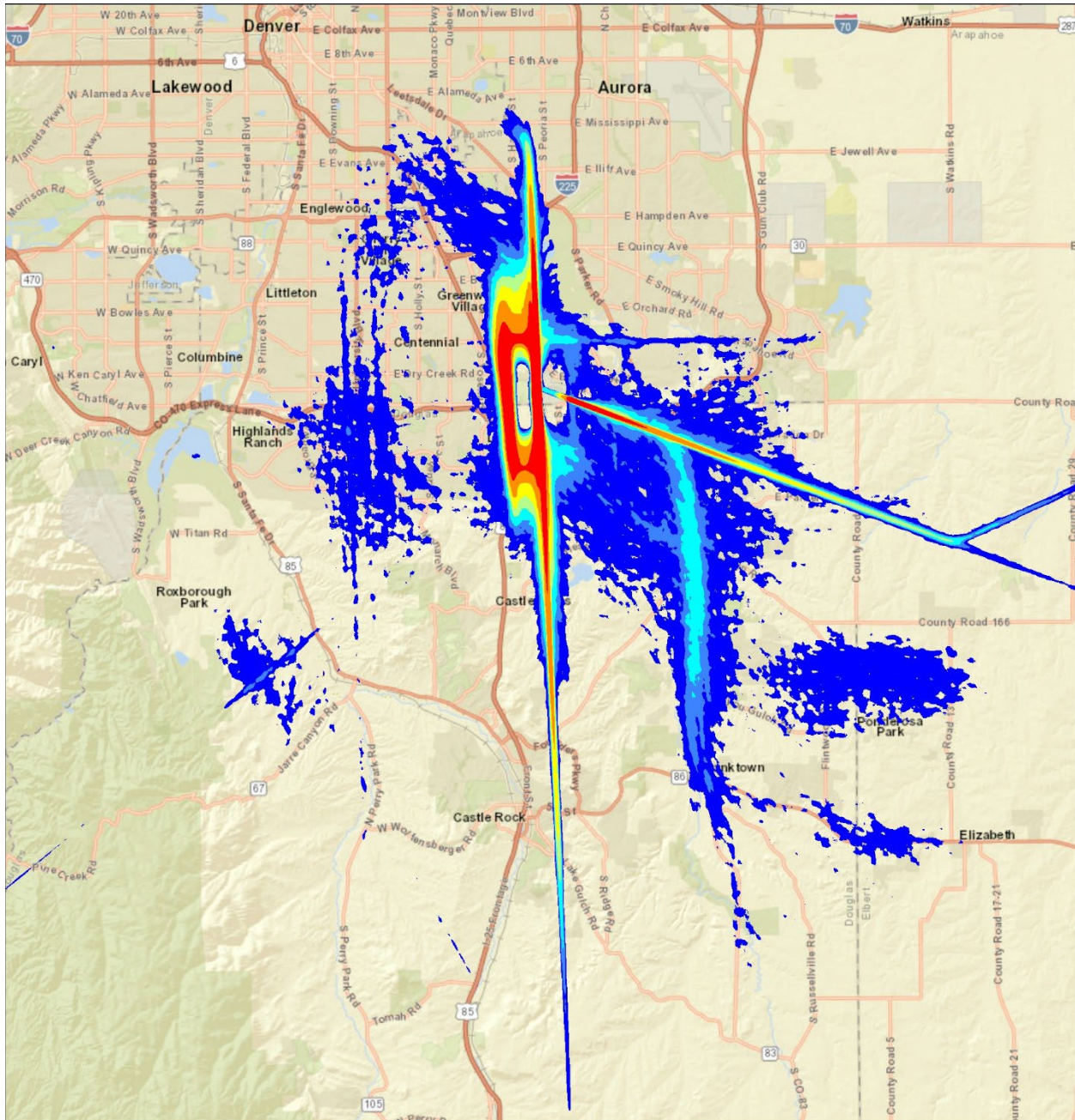


**Larger dots equate to more complaints for that particular households

9 CENTENNIAL AIRPORT RADAR TRACK DENSITY MAP

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

August 2023 Flight Tracks associated with Centennial Airport



Lower Density Traffic Higher Density Traffic

10 NOTES AND DISCLAIMER

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

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



Noise Hotline: 303-790-4709

www.centennialairport.com

CACNR/ACPAA 2023 MEETING SCHEDULES

CACNR REPRESENTATIVES TO 2023 MEETINGS OF THE ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY

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

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

<u>CACNR MEETINGS</u>	<u>CACNR REPRESENTATIVE</u>	<u>REPORT DUE DATE</u>	<u>ACPAA MEETINGS</u>
(To sblymyer@centennialairport.com)			
January 04	-----	combines with February report	NO ACPAA MEETING
February 01	Donna Johnston	February 03	February 09
March 01	Bill Wasmund	March 10	March 16 (note 3 rd Thursday)
April 05	Chris Eubanks	April 07	April 13
May 03	Andy Jones	May 05	May 11
June 07	Andy Jones	June 07/08, or verbal	June 08
July 05 - NO CACNR MEETING	---	----	NO ACPAA MEETING
August 02	Brad Piere	August 04	August 10
September 06	not needed	September 08	September 14
October 04		October 06	October 12
November 01		November 03	November 09
Dec 06 – NO CACNR MEETING	---	---	December 14

ATTENDANCE RECORD for 2023 - 2024 CACNR MEETINGS		2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	2024	2024	MEMBER REPRESENTED	
		APR	MAY	JUNE	JULY*	AUG	SEPT	OCT	NOV	DEC*	JAN	FEB	MAR	%	TOTAL %
ARAPAHOE COUNTY	Leslie Summey	X	X	absent		X	X							80%	80%
	Alternate Vacant/Sreenivasan Alakappan	-	-	absent		-	-							0%	
	Paul Krier	X	X	absent		virtual	X							80%	80%
	Alternate Evan Colvin/Vacant	-	-	absent		-	-							0%	
DOUGLAS COUNTY	Abe Laydon	-	-	-		absent	-							0%	80%
	Alternate Dan Avery	X	X	X		absent	X							80%	
	Alison Biggs	X	X	X		X	X							100%	100%
	Alternate Mark Adams	-	-	-		-	-							0%	
AURORA	Brad Pierce	X	X	X		X	X							100%	100%
	Mindy Parnes	-	-	-		-	-							0%	
CASTLE PINES	Chris Eubanks	X	absent	X		X	X							80%	80%
	Ben Price	-	absent	-		-	-							0%	
CASTLE ROCK	Laura Cavey	-	absent	absent		absent	absent							0%	20%
	Sandy Vossler	virtual	absent	absent		absent	absent							20%	
CENTENNIAL	Candace Moon	X	X	X		X	X							100%	100%
	Don Sheehan	-	-	-		-	-							0%	
CHERRY HILLS VILLAGE	Robert Eber	absent	absent	absent		absent	absent							0%	0%
	Randy Weil	absent	absent	absent		absent	absent							0%	
FOXFIELD	Pam Thompson	X	X	X		absent	X							80%	80%
	Frank Lawrence	-	-	-		absent	-							0%	
GREENWOOD VILLAGE	Donna Johnston	X	X	X		X	absent							80%	80%
	Libby Barnacle	-	-	-		-	absent							0%	
HIGHLANDS RANCH	Andy Jones	X	X	X		absent	X							80%	80%
METROPOLITAN DISTRICT	Renee Anderson	-	-	-		absent	-							0%	
LONE TREE	Mike Anderson	X	X	X		X	X							100%	100%
	Chuck Darnell	virtual	-	-		-	-							20%	
PARKER	Todd Hendreks/Ashley Chasez	X	virtual	absent		virtual	X							80%	80%
	Vacant	-	-	absent		-	-							0%	
ACPAA	Mike Fronapfel	X	X	X		X	X							100%	100%
	Vacant	-	-	-		-	-							-	
AOPA	Robert Doubek/John Hirshman	X	X	X		X	X							100%	100%
	John Hirshman/Vacant	-	-	-		-	-							0%	
CABA	Don Kuskie	absent	X	absent		absent	X							40%	40%
	Mike Straka	absent	-	absent		absent	-							0%	
CDOT AERONAUTICS DIVISION	Todd Green	absent	absent	absent		absent	absent							0%	0%
	Vacant	absent	absent	absent		absent	absent							0%	
WINGS OVER THE ROCKIES	Bill Wasmund	absent	X	X		-	X							60%	80%
	Vacant/Jordan Ashley	absent	X	-		X	-							40%	
* No meetings in July or December															
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).															
08 05 2023															