



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

AGENDA

November 5, 2025

6:30 p.m. – 8:30 p.m.

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

Chair: Chris Eubanks **Vice Chair:** Pam Thompson **Treasurer:** Andy Jones **Secretary:** Alison Biggs

**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:

CACNR will bring together airport, community, FAA, and aviation industry representatives to collaboratively identify and discuss noise issues at Centennial Airport and recommend courses of action that could reduce noise over affected communities.

Centennial Airport Noise Complaint Hotline – 303-790-4709

Denver International Airport Noise Complaint Hotline – 303-342-2380

1. CALL TO ORDER AND DETERMINATION OF QUORUM:

<i>Arapahoe County:</i>	Rhonda Fields/Leroy Evans	<i>Foxfield:</i>	Pam Thompson/Frank Lawrence
	Sreenivasan Alakappan/Vacant	<i>Greenwood Village:</i>	Donna Johnston/John Jackson
<i>Douglas County:</i>	Abe Laydon/DJ Beckwith	<i>Highlands Ranch Metro Dist.</i>	Andy Jones/Renee Anderson
	Alison Biggs/Mark Adams	<i>Lone Tree:</i>	Mike Anderson/Chuck Darnell
<i>Elbert County:</i>	Mike Buck/Shawn Fletcher	<i>Parker:</i>	Emily Hogan/Michael Lawson
	Brenda Dyche/Deidre Dyche	<i>ACPAA:</i>	Michael Fronapfel/Zach Gabehart
<i>Aurora:</i>	Brad Pierce/Maurice Healy	<i>AOPA:</i>	Joe Patton/Mike Koscielniak
<i>Castle Pines:</i>	Chris Eubanks/Ron Cole	<i>CABA:</i>	Don Kuskie/Mike Straka
<i>Castle Rock:</i>	Laura Cavey/Sandy Vossler	<i>CDOT Aeronautics Div</i>	Todd Green/Vacant
<i>Centennial:</i>	Don Sheehan/Amy Sharp	<i>Wings Over the Rockies:</i>	Bill Wasmund/Vacant
<i>Cherry Hills Village</i>	Dave Heller/Doug Robinson		

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

- A. DRAFT MINUTES, October 1, 2025 – Pam Thompson, Acting Secretary
- B. TREASURER'S REPORT, October 31, 2025 – Andy Jones, Treasurer, Zach Gabehart, ACPAA Staff

3. ITEMS REMOVED FROM CONSENT AGENDA:

4. PART 150 STUDY UPDATE/PROGRESS:

- A. UPDATE FROM MEAD & HUNT, - KATE ANDRUS (to include noise contours for 55 & 60 DNL per CACNR previous request)
- B. PART 150 NOISE COMPATIBILITY STUDY ADVISORY COMMITTEE – Chris Eubanks

5. NOISE REPORT: Zach Gabehart, ACPAA Staff

- A. SEPTEMBER 2025

6. PUBLIC COMMENT: (3 minutes per person time limit; 30-minute overall time limit):

- A. RECEIVED BY CACNR
- B. MEETING ATTENDEES /VIRTUAL ATTENDEES

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

- A. Q3 STUDY GROUP REPORT – Matt Frenette, ACPAA Staff

8. EXECUTIVE COMMITTEE:

- A. DRAFT 2026 BUDGET
- B. ACPAA MEETINGS – October 9, 2025, Pam Thompson
- C. WEBMASTER – Chris Eubanks
- D. WORK PROGRAM – Alison Biggs
- E. UC DAVIS DATES (March 9-11, 2026) AND POSSIBLE ATTENDEES

9. **AIRPORT DIRECTOR:** Mike Fronapfel
 - A. FLIGHT SCHOOL ACTIVITY/NEXT MEETING DATE
 - B. AVIATION FUEL SALES
 - C. LEGISLATIVE/LOBBYING
 - D. COLORADO MUNICIPLE LEAGUE
 - E. COMMUNITY RELATED ACTIVITY
 - F. OTHER
10. **Q3 2025 LAND USE REFERRAL REPORT:** Zach Gabehart, ACPAA Staff
11. **OLD BUSINESS:**
12. **NEW BUSINESS:**
13. **PUBLIC COMMENT EXTENSION IF NEEDED:** (3 minutes per person time limit):
14. **REPRESENTATIVES' COMMENTS:**
 - A. COLORADO MUNICIPLE LEAGUE
15. **RECOMMENDATIONS TO ACPAA AND OTHERS TO POTENTIALLY REDUCE NOISE OVER AFFECTED COMMUNITIES:**
16. **NEXT MEETINGS:**
 - A. **CACNR** – Dec. 3, 2025 6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112
 - B. **ACPAA** – Nov. 13, 2025 3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112, Pam Thompson for CACNR
Dec. 11, 2025 3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112, Pam Thompson for CACNR
 - C. **PART 150 NOISE COMPATIBILITY STUDY ADVISORY COMMITTEE** – Nov. 20th 2025 10:00 a.m. 7565 S. Peoria St.
Englewood, CO 80112
17. **ADJOURN:**



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE MINUTES

DRAFT

October 1, 2025

VISION – QUIETER SKIES FOR OUR COMMUNITIES

MISSION – CACNR WILL BRING TOGETHER AIRPORT, COMMUNITY, FAA, AND AVIATION INDUSTRY REPRESENTATIVES TO COLLABORATIVELY IDENTIFY AND DISCUSS NOISE ISSUES AT CENTENNIAL AIRPORT AND RECOMMEND COURSES OF ACTION THAT COULD REDUCE NOISE OVER AFFECTED COMMUNITIES.

Chair: Chris Eubanks **Vice Chair:** Pam Thompson **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 Chris Eubanks. The following were in attendance, and a quorum was present:

Arapahoe County:	Rhonda Fields	Foxfield:	Pam Thompson
Douglas County:	DJ Beckwith	Greenwood Village:	Donna Johnston
Elbert County:	Brenda Dyche	Lone Tree:	Mike Anderson
Aurora:	Brad Pierce	ACPAA:	Mike Fronapfel & Zach Gabehart
Castle Pines:	Chris Eubanks & Ron Cole	AOPA:	Joe Patton & Mike Koscielniak
Castle Rock:	Sandy Vossler	CABA:	Don Kuskie
Centennial:	Don Sheehan & Amy Tharp	Wings Over the Rockies:	Bill Wasmund

2. **CONSENT AGENDA:** The Consent Agenda included the Draft CACNR Minutes from September 3rd, 2025; a Treasurer's Report from September 2025 showing a balance of \$XXX; and the 2025 -2026 CACNR Attendance Record. On the motion of Chris Eubanks, duly seconded, the Consent Agenda was approved.
3. **ITEM REMOVED FROM THE CONSENT AGENDA:** None
4. **PART 150 STUDY UPDATE:** The resubmittal of the Part 150 items has been approved by the FAA including the realignment of the noise contours. Next Part 150 Public Meeting will be held on November 20th at a location to be determine in Douglas County. The Public Meeting will be hybrid consisting of presentation boards and a public hearing. Kate Andrus H&M will be present at the November CACNR meeting to present and discuss the revised Part 150.
5. **NOISE REPORTS:**
The August 2025 Noise Report included the following information:

August Local Operations:	11,566	August Total Operations:	26,161
Year to Date Local Operations:	98,021	Year to Date Total Operations:	206,873

26,161 Total Operations in August resulted in 966 complaints from 89 households.

August Noise Events:							
<u>August Total:</u>		<u>August 60 – 69 db:</u>		<u>August 70 – 79 db:</u>		<u>August 80 – 89 db:</u>	
Meridian	8,722	Meridian	7,011	Golf Course	3,149	Airport East	442
Golf Course	8,340	Golf Course	5,009	Meridian	1,664	Golf Course	180
Airport East	2,991	Parker	2,573	Airport East	1,029	Meridian	45
Parker	2,790	State Park	1,602	State Park	681	Lone Tree	41
State Park	2,300	Airport East	1,482	Port. Station 31	273	State Park	17
Port. Station 31	1,541	Port. Station 31	1,252	Parker	211	Hunters Hill	16
Grandview Estates	1,296	Grandview Estates	1,193	Grandview Estates	98	Port. Station 31	15
Castle Rock	1,015	Castle Rock	964	Greenwood Village	78	Greenwood Village	6
Greenwood Village	826	Greenwood Village	742	Lone Tree	52	Parker	6
Lone Tree	707	Lone Tree	610	Castle Rock	51	Grandview Estates	5
Hunters Hill	537	Hunters Hill	472	Hunters Hill	49	Castle Pines	0
Castle Pines	293	Castle Pines	273	Castle Pines	20	Castle Rock	0
Sagebrush Park	123	Sagebrush Park	118	Sagebrush Park	5	Sagebrush Park	0

August Noise Events in the 90+ decibel range: Airport East – 38 Lone Tree – 4 Golf Course – 2 Meridian – 2 Portable Station – 1

August Noise Complaints per Municipality and Numbers of Households:

Greenwood Village	250 (26%)	Greenwood Village	23 (26%)
Unincorporated Douglas County	237 (25%)	UAC	20 (22%)
Unincorporated Arapahoe County	160 (17%)	UDC	19 (21%)
Other	155 (15%)	Other	9 (10%)
Centennial	132 (14%)	Centennial	5 (6%)
Aurora	16 (2%)	Highlands Ranch	3
Highlands Ranch	5	Aurora	2
Denver	4	Denver	2
Castle Rock	3	Castle Rock	2
Lone Tree	2	Lone Tree	2
Castle Pines	1	Parker	1
Parker	1	Castle Pines	1
Cherry Hills Village	0	Cherry Hills Village	0

YTD Complaints and Number of Households:

UAC	1,996 (31%)	UAC	58 (27%)
Other	1,075 (16%)	GV	50 (23%)
GV	1,040 (16%)	UDC	35 (16%)
UDC	886 (14%)	Other	20 (9%)
Centennial	776 (12%)	Centennial	17 (7%)
Parker	500 (8%)	Lone Tree	14 (6%)
HR	79	Denver	8 (4%)
Denver	55	HR	7 (3%)
Aurora	54	Parker	5
Castle Rock	27	Aurora	4
Lone Tree	22	Castle Rock	4
CHV	7	CHV	2
Castle Pines	1	Castle Pines	1

Year to Date, the top five households complaining were:

Household #1 981 (15%) Other

Household #2 941 (14%) Unincorporated Arapahoe County

Household #3 665 (10%) Centennial

Household #4 495 (8%) Parker

Household #5 421 (6%) Greenwood Village

Remaining Households 3,015 (46%)

In August, 111 noise complaint responses were completed from 966 noise complaints, with 95 of those by email and 16 by telephone.

In August 816 complaints were received from 7:00 a.m. – 9:59 p.m. (84%)

150 complaints were received from 10:00 p.m. – 6:59 a.m. (16%)

In August props accounted for 87% of the complaints by aircraft type; jets accounted for 12% of the complaints, and helicopters caused 1%. Comparatively, Year to Date figures showed propellers had caused 90% of the complaints; jets caused 9%, and helicopters caused 1%

In August, departures were responsible for 47% of the complaints, training was responsible for 39% of the complaints, , and arrivals were responsible for 14% of the complaints. Comparatively, Year to Date figures showed training had caused 44% of the complaints, departures had caused 37%, and arrivals had caused 19%.

A graph was provided showing the August number of complaints by the hour in which they were made, with peaks in the 6:00 a.m. – 10:00 a.m. time period, followed by a rather dramatic decrease after 10:00 a.m. through the evening hours.

The map of household locations and numbers of complaints was included, as was the August Radar Track Density Map.

Comments made regarding the Noise Report were as follows: YTD Operations are down as compared to 2024. YTD Complaints are also down as compared to 2024. YTD #1 Household for complaints has changed to OTHER (Elbert County / 3 Towers Training area). Complaint by Type of Operation has changed as DEPARTURES (47%) surpassed TRAINING (39%) in the month of August. In the month of August, the Complaints received by Hour again spiked in the early morning hours 7AM with most complaints during the 6 AM – 10 AM hours. It appears that more jets are being “seen” than flights schools. JXS has had 120 operations to date and has received 2 complaints. On the day of the 2 complaints flights were in a North flow pattern due to weather. Variable to consider – Air Traffic Controller staffing may be affecting pattern traffic and no touch and go operations, thus a decrease of traffic in the study area. The government shut down should not affect operations at Centennial airport – safety standards override “volume” or staffing.

PORTABLE MONITOR REPORT submitted as follows:

Portable Noise Monitor Location - Elizabeth, CO
(Under 3 Towers Practice Box)
13.5 Miles Southeast of Centennial Airport
Report Date - 09/05/2025

Centennial Airport Associated Flight Track within 1 Mile of NMT by Aircraft Type

Propeller 428	Jet 67	Helicopter 2	Total 497
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Centennial Airport Associated Flight Track within 1 Mile of NMT by Operation Type

Arrival 95	Departure 144	Training 258	Total 467
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Airport	Arrival	Departure	Training	Total
Centennial (KAPA)	95	144	258	497
Denver Intl (KDEN)	873	191	1	1,065
Colorado Air & Space Port (KCFO)	2	9	4	15
Rocky Mountain Metro (KBJC)	8	8	1	17
Northern CO Regional (KFNL)	0	1	0	1

Colorado Springs (KCOS)	4	5	0	9
Pueblo (KPUB)	0	1	0	1

Noise Data

Aircraft DNL (The 24-hour average sound level of aircraft with a 10dB penalty for nighttime noise events.)	40.0
Community DNL (The 24-hour average sound level of the community with a 10dB penalty for nighttime noise events)	51.4
Total DNL (The 24-hour average sound level with a 10dB penalty for nighttime noise events)	51.7
Average Aircraft LMax (dB) (The peak noise level for a single aircraft noise event)	62.3

Noise Events

Centennial Airport Aircraft Noise Events at Noise Monitor	559
Non-Centennial Airport Aircraft Noise Events at Noise Monitor	749
Total Aircraft Noise Events at Noise Monitor	1,308
Total Community Noise Events at Noise Monitor	3,607

Noise Events at Noise Monitor

Decibel Range (dB)	Centennial Airport Aircraft	Non-Centennial Airport	Community
60-69	197	290	872
70-79	9	13	84
80-89	2	0	8
90+	0	0	2

Comments made regarding the Portable Noise Report were as follows: Data is consistent, although July is the busiest month. 3 Towers is experiencing an average of 13 overflights per day. Total Aircraft Noise Events in July recorded much higher while June and August are comparable numbers. Zach will check the data recorded in July for an error. Note that the Decibel Ranges experienced in 3 Towers is similar to the permanent monitors such as Castle Pines and Sagebrush Park – much closer to the airport. Next the Portable Monitor will be positioned one training box to the East to measure activity.

6. PUBLIC COMMENT:

A. **MEETING ATTENDEES/VIRTUAL ATTENDEES –**

1. Randy Johnson from Louviers recorded 586 planes in September, mostly training. The numbers vary greatly day to day ex: September 18th there were 42 and September 22nd there was only 1 due to foggy weather. He submitted 66-70 complaints to Centennial. Planes continue to turn and fly directly over his area as it seems that they are purposely flying over Louviers. Randy asked two questions: do the control towers say anything about the number of training planes? Portable monitors register community events, do the permanent monitors register them as well? (Answered by Airport Staff – yes, permanent monitors do register community events. The data is separated.)
2. Laurie Lauletta-Boshart from Parker, Unincorporated Douglas County. Laurie lives on acreage. The 5-7AM spike in complaints received by hour on the Monthly Noise Report is due to her area. They are experiencing a major disturbance. Volunteer Fly Quiet Hours need to be respected. Even flights at 1000 feet above their homes are loud. This activity was not noticeable in 2024. Is there an update on the proposed new route to the training areas using HWY 83 & 86? (Answered by Airport Staff – it is still a path to the training boxes, being used, although VF rules make it difficult to be a 2-way corridor for flight traffic). Laurie as to please share the results of the Quarterly Flight School Meetings and please be a considerate neighbor with Fly Quiet Hours – incentivize pilots to do so.

7. CACNR STUDY GROUP COMMITTEE:

Chair Brad Pierce reported the group was continuing to meet and was working with the vendor on the dashboard. The matrix set for the dashboard will include the following:

- Number of flights
 - Number of night flights
 - Tough & Go limit of 10
 - Use of unleaded fuel
 - Participation in meetings
 - Measurements to consider – Low Flying aircraft / Respecting the Volunteer Fly Quiet Hours of Operation

8. EXECUTIVE COMMITTEE:

- A. **ACPAA** – Pam Thompson had provided a written report of the September 11th ACPAA meeting. She noted a Public Hearing was held on two items: Aircraft Maintenance company & Aircraft Detailing company. New Wings of the Rockies Director, David Dickerson, was introduced.
- B. **WEBMASTER** – Chris Eubanks indicated the website update will be reflected in the 2026 Budget. He is working with Zach Gabehart on writing an RFP for a new CACNR Website design.
- C. **WORK PROGRAM** – Amy Tharp reported the group had completed the first round of organizing and prioritizing the work program. Chuck Darnell has streamlined items into a Draft 6 comprehensive table listing. All items have been categorized as either High, Medium or Low priority. More to come at later date.

9. **AIRPORT DIRECTOR'S REPORT:**

Mike Fronapfel reported that airport operations were down about 9.4% for the month and 11.1% compared to last year. However overall fuel sales increased 2.1%. 100 Unleaded R gas – ASTM certified for 2 aircrafts, 172R & S models. Continue to test on other aircraft, Goal is for 100R to be acceptable for 75% of the fleet.

Ongoing construction/ modernization of Tower. Also on the horizon, a Community Park with viewing tower in honor of Robert Oslinger located to the west of the Hanger Building.

Skies Academy did not reopen.

David Dickerson – appointed new director of Wing Over the Rockies.

EnviroSuite convention was hosted at Centennial Airport. Zach and Matt presented to group. The group was blown away by the noise work being done here at Centennial.

Partnership Meeting with Douglas County Mike Fronapfel presented on behalf of the airport. Economic impact of Centennial airport – airport supports over 9,200 jobs and generates a significant amount of revenue to the local economy.

Q3 2025 APA Flight School Safety & Noise Abatement Meeting Report was submitted:

Fourteen representatives from various flight schools participated, contributing to a highly engaged and productive session.

FAA Air Traffic Presentation

FAA Air Traffic Personnel led the safety portion of the meeting, presenting updates and operational changes relevant to Centennial Airport:

- Wrong Surface Landings: Attendees were briefed on potential factors for wrong surface landings, including safety considerations.
- Runway Operations: The FAA shared video clips illustrating best practices and areas of concern related to runway safety.

Noise Abatement Discussion

The noise abatement segment included several key updates and discussions:

- Airport staff review 2 key airport operational considerations including: Airport Winter Operations and Safe Taxi Procedures on Uncontrolled ramp areas.
- Q2 Noise Abatement Report Recap: A summary of noise trends, community feedback, and observations from the first quarter were presented.
- Practice Area Usage: Airport Staff reviewed the designated practice areas and discussed strategies for minimizing noise impact during training operations.
- Noise Abatement Guidelines: Participants were reminded of established noise abatement procedures.

Fly Quiet Dashboard Presentation

BridgeNet International delivered a detailed presentation on the development of the Fly Quiet Dashboard for APA. The presentation covered:

- Measured Metrics: Proposed data points to be tracked in the developed dashboard.
- Scoring Methodologies: Ideas for quantifying operator performance in relation to noise abatement goals.
- Project Timeline: Dashboard test period will begin Q4 2025 with dashboard launch expected around January 1, 2026.

Flight school representatives actively participated in the discussion, raising thoughtful questions and providing valuable feedback on potential implementation challenges and opportunities.

CACNR discussion was as follows: The Flight Schools were receptive of the Dashboard and collaborative in refining the “scoring” so that it would be most effective and fair for all. The Flights Schools were made aware of the “hot spots”. These are the areas that we are experiencing the most complaints from. FAA is not responding to complaints regarding low altitude violations. These continue to occur. There has been no feedback from emails submitted to the FAA. Even though the FAA was present at this Q3 meeting they have pulled back by direction of current Administration. The Study Group has been pressing to get them back at the table - meeting with Washington DC representatives to encourage participation.

10. **OLD BUSINESS** – None

11. **NEW BUSINESS:** Demonstration of New Noise Website – Zach Gabehart.

Dedicated noise website noise.centennialairport.com

Flights can be viewed over individual's home when address is entered.

Explanations of North & South flow and general snapshot of flow around the airport

Night Flights / Training Flights & Practice Areas

“What we are doing” - Introduce Envirosuite & Noise Monitors / How We: Measure Noise and Track Operations

Explore Data: Analyze data in 1-mile square grid over home

Trends / hour of day

Compare previous months

How high is the aircraft

See individual Noise Monitor Data

Note: Altitude measured in 1000-foot increments. Example: chart does not necessarily mean flight is at 6000 feet but rather somewhere between 6000 and 7000 feet.

Discussion was held regarding the average noise levels at different altitudes and the statistics of the reduction of decibels by raising the altitude 500 feet. Typically change of 3 decibels requires doubling the distance.

12. **PUBLIC COMMENT EXTENSION IF NEEDED:** na

13. **REPRESENTATIVES' COMMENTS:**

Flight Schools were urged not to perform ground reference maneuvers in training boxes.

Hot Spots were presented to Flight Schools,

Bill Wasmund: FAA cannot respond. Rocky Mountain / Air Traffic Manager have been directed to NOT engage in noise abatement issues. Noted David Dickerson's (Wings) impressive bio and community involvement. Wings Over the Rockies – Marines 250th Birthday Ball to be held on November 9th - material distributed and website available.

Amy Tharp: further elaborated on progress of Work Program and the documentation / organization being done by Chuck Darnell.

Commissioner Rhonda Fields: Community meeting involving 80 seniors as well as the DA and Arapahoe County Sheriff. Items of public concern included: Fraud, Public Safety, as well as Coordination with the FAA and 2 inquires regarding Airport Noise and noise management.

14. **RECOMMENDATIONS TO ACPAA & OTHERS TO POTENTIALLY REDUCE NOISE OVER AFFECTED COMMUNITIES:** None

15. **NEXT MEETINGS:**

A, CACNR – November 5, 2025 6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112
December 3, 2025 6:30 p.m. 7565 South Peoria Street, Englewood, CO 80112

B. ACPAA – Nov. 13, 2025 3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112, Pam Thompson for CACNR
Dec. 11, 2025 3:00 p.m. 7565 South Peoria Street, Englewood, CO 80112, Pam Thompson for CACNR

C. PART 150 MEETINGS – November 20th Public Meeting location TBD

16. **ADJOURNMENT:** The meeting was adjourned at 8:07 PM

Pam Thompson, Acting Secretary

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE 2025 BUDGET - Approved October 2, 2024; Updated as of 10/31/2025				
		BUDGET	ACTUAL	
INCOME:			as of 10/31/2025	NOTES
CARRY OVER FROM PRIOR YEAR	\$ 24,000.00	\$24,448.97		Carry over from 2024
ACPAA	\$ 10,000.00	\$10,000.00		
CACNR REGULAR MEMBERS	\$ 7,000.00	\$7,500.00		12 Regular Members to be invoiced at 1/2 past regular amount (\$500 for Cities and Towns; \$1,000 for Counties)
TOTAL INCOME:	\$ 41,000.00	\$41,948.97		
EXPENDITURES:				
WORK PROGRAM:				
TEAM EXPENDITURES	\$ 10,000			Community Outreach; Incentive Program(s); Fly Quiet; Practice Areas; Noise Monitors; Legislative/Governmental Affairs
WEBSITE	\$ 2,100	\$862.89		Webmaster; Website Domain and Hosting Renewal
EXECUTIVE/WORK PLAN	\$ 500			Annual Report
CONFERENCES:				
2 Reps to UC Davis Symposium	\$ 5,000	\$4,806.84		** Estimate based on prior symposiums
2 Reps to 2 N.O.I.S.E. Conferences	\$ 4,000			** Estimate based on prior years when conferences were held
CONSULTATION/EDUCATION:	\$ 4,000			Projects with consultants for entire Roundtable
MEMBERSHIP DUES:	\$ 1,000	\$1,000.00		N.O.I.S.E.
	\$ 325			CML
ADMINISTRATIVE:	\$ 2,000			Consultation on Work Plan
	\$ 3,000			Legal
ADMINISTRATIVE	\$ 1,650			Meeting Space
	\$ 1,500			Recorder
RESERVE	\$ 2,000.00	\$606.14		Donation in Memory of B. Doubek and Baby Gift for M. Frenette for presently unidentified and unanticipated expenses and/or CACNR activities consistent with the approved Work Plan.
TOTAL EXPENDITURES:	\$ 37,075.00	(7,275.87)		
CARRY OVER TO 2025	\$ 3,925.00	\$34,673.10		Actual to be determined at the end of 2025
** 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
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CENTENNIAL AIRPORT

SEPTEMBER 2025 NOISE REPORT



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1. TABLE OF CONTENTS

2. Definitions3

3. About APA’s Noise Monitoring Program4

4. About WebTrak™5

5. Operations Statistics6

6. Noise Monitor Reports7

7. Current Month Noise Complaint Statistics8-9

8. YTD Noise Complaint Statistics10-12

9. Radar Track Density.....13

10. Notes and Disclaimer.....14

2. 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.

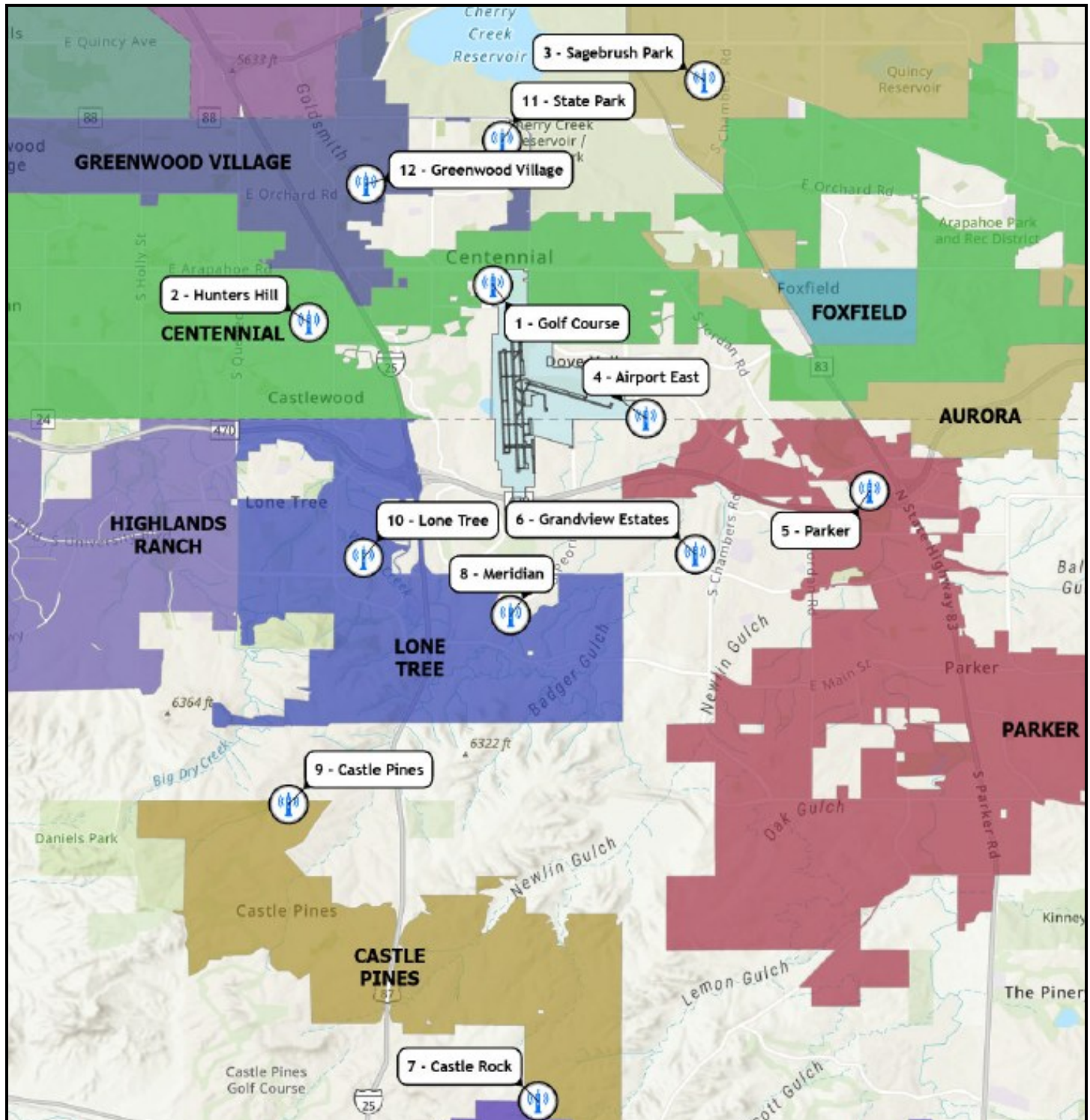
Overflight – Aircraft flight originating and terminating outside the area that transits the airspace without landing.

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.

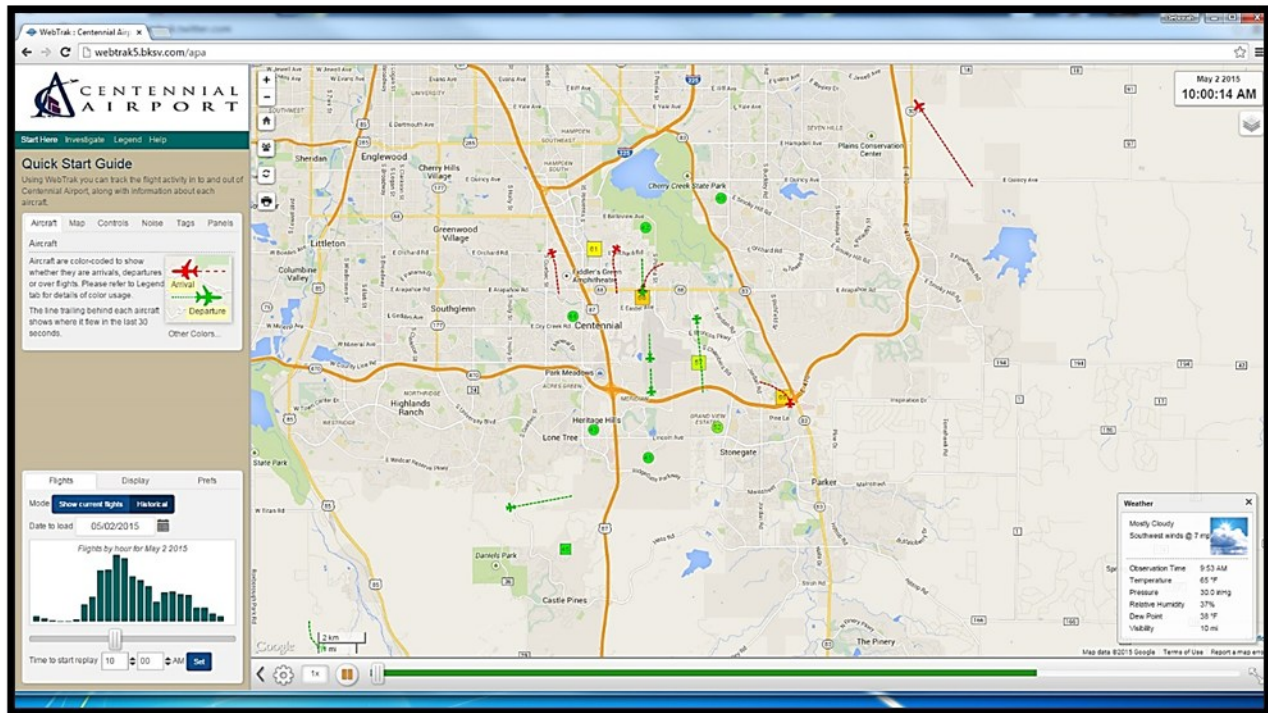
3. ABOUT APA's NOISE MONITORING PROGRAM

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 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, Colorado Air & Space Port and Buckley Space 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;

WebTrak: <https://webtrak.emsbk.com/apa>

Additional Noise Information: <https://centennialairport.com/track-and-report-noise>

Scan here to view Centennial Airport's
Voluntary Noise Abatement Information



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	2,634	2,546	131	5,311	1,559	5,291	77	6,927	11,197	2	11,199
February	2,509	2,499	134	5,142	1,488	5,097	84	6,669	11,271	6	11,277
March	2,682	2,896	124	5,702	1,731	5,897	83	7,711	13,120	15	13,135
April	2,405	2,562	161	5,128	1,706	5,418	89	7,213	12,912	0	12,912
May	2,644	2,939	164	5,747	1,826	6,358	84	8,268	13,704	7	13,711
June	2,833	3,052	241	6,126	1,724	6,426	80	8,230	12,056	22	12,078
July	2,874	3,195	196	6,265	1,938	7,010	84	9,032	12,140	3	12,143
August	2,760	3,092	169	6,021	1,637	6,712	84	8,433	11,556	10	11,566
September	2,950	2,855	137	5,942	2,167	6,921	65	9,153	12,815	3	12,818
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	24,291	25,636	1,457	51,384	15,776	55,130	730	71,636	110,771	68	110,839

	IFR OVERFLIGHTS				VFR OVERFLIGHTS				TOTAL OPERATIONS
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	
January	6	3	2	11	31	49	2	82	23,530
February	0	3	1	4	35	53	6	94	23,186
March	7	6	1	14	29	53	3	85	26,647
April	6	2	2	10	41	72	10	123	25,386
May	7	13	2	22	30	64	5	99	27,847
June	7	6	1	14	36	37	3	76	26,524
July	4	8	2	14	49	81	8	138	27,592
August	6	9	2	17	59	62	3	124	26,161
September	3	5	1	9	34	74	11	119	28,041
October				0				0	
November				0				0	
December				0				0	
Y-T-D Totals	46	55	14	115	344	545	51	940	234,914

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.

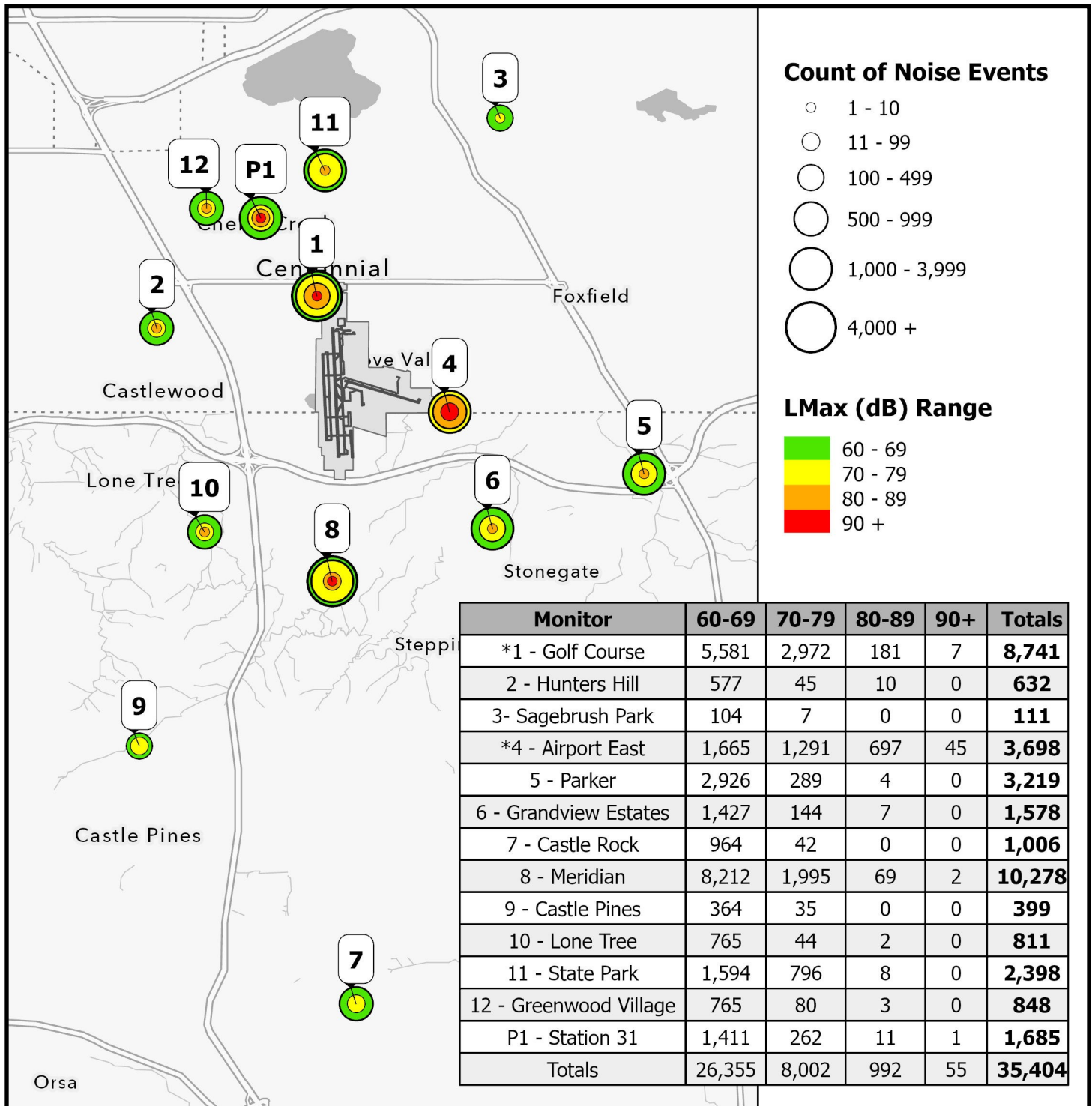
VFR Itinerant – Operations other than local operations conducted under Visual Flight Rules.

Overflight – Operation performed by aircraft that transit the area and did not originate or did not terminate within the airspace.

6. NOISE MONITOR REPORT

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.

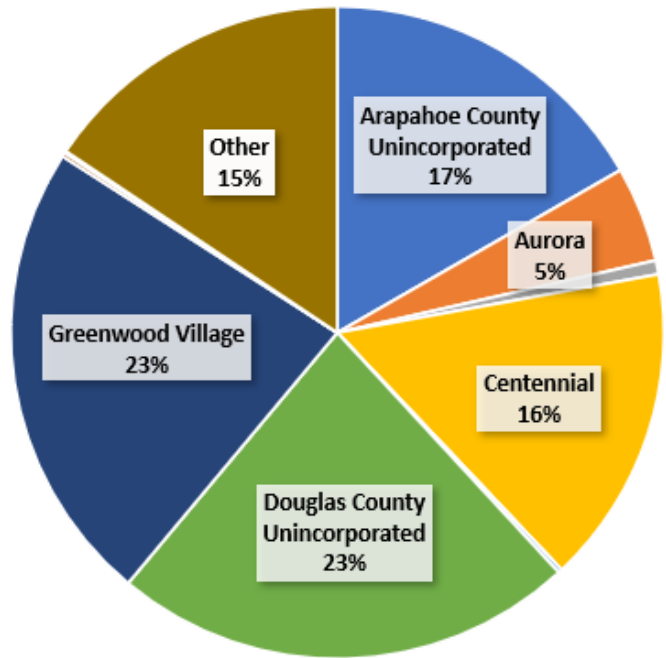


*NMT located on airport.

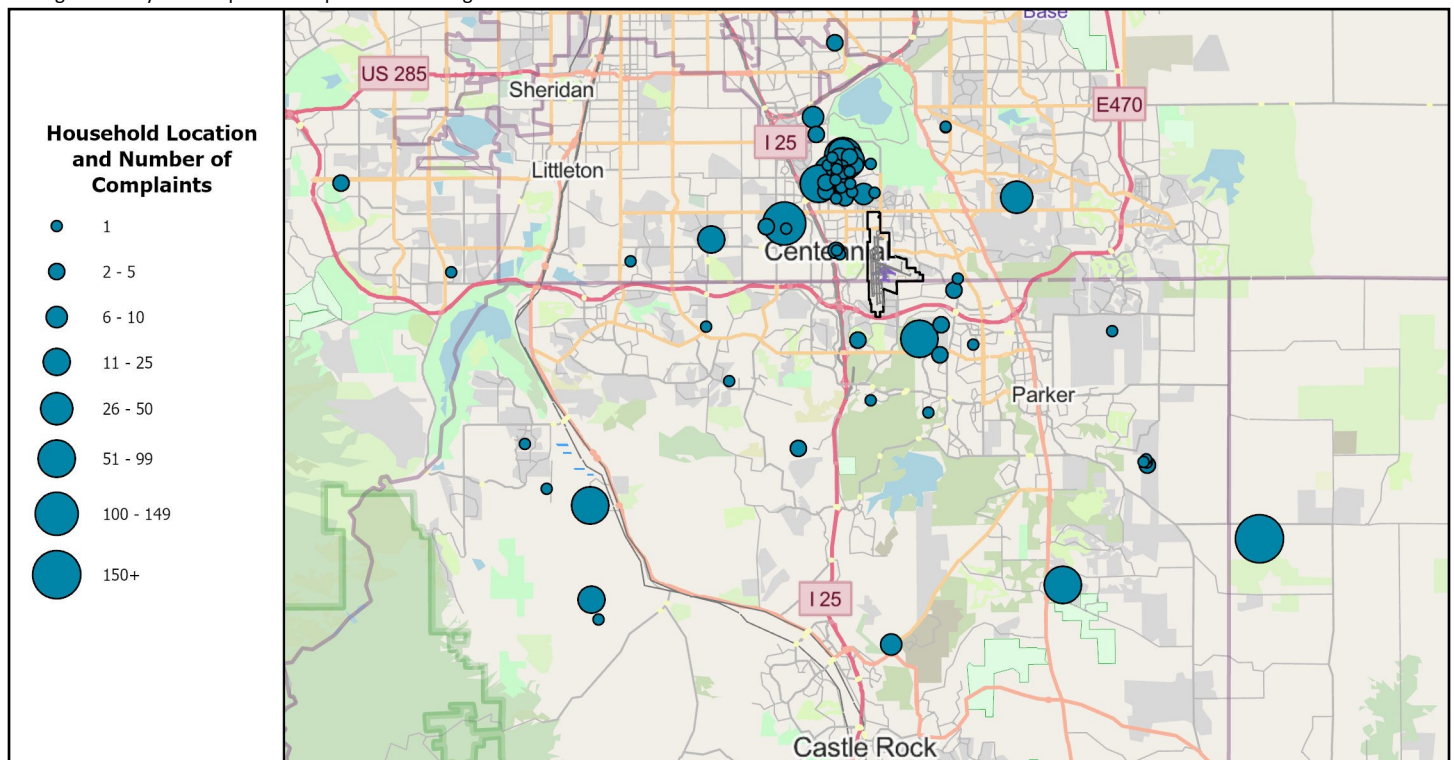
7. SEPTEMBER 2025 NOISE COMPLAINT STATISTICS

Municipality	Complaints	Households	Population
Arapahoe County Unincorporated	169	17	98,066
Aurora	48	3	399,913
Castle Pines	0	0	14,000
Castle Rock	7	1	86,000
Centennial	160	4	108,422
Cherry Hills Village	0	0	6,442
Denver	2	1	715,522
Douglas County Unincorporated	232	18	276,493*
Greenwood Village	233	19	15,691
Highlands Ranch	2	2	103,444
Lone Tree	1	1	14,253
Parker	1	1	68,000
Other	158	6	-
Total	1,014	74	1,906,246

Complaints per Municipality



*Douglas County Unincorporated Population with Highlands Ranch Removed



7. SEPTEMBER 2025 NOISE COMPLAINT STATISTICS

Complaint by Aircraft Type



Propeller **88%**



Jet **10%**



Helicopter **2%**

*#1 Household Removed

Complaint by Operation Type



Departures **37%**



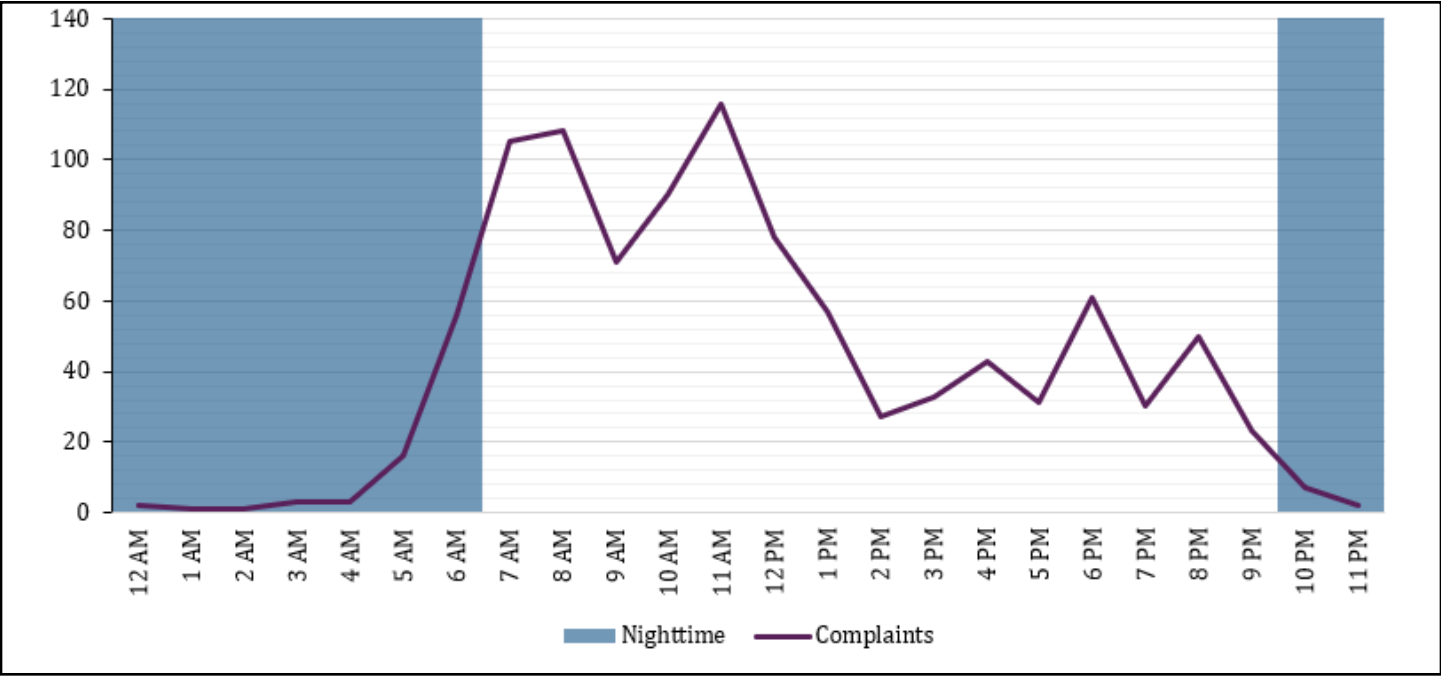
Arrivals **23%**



Training **40%**

*#1 Household Removed

Complaints by Hour



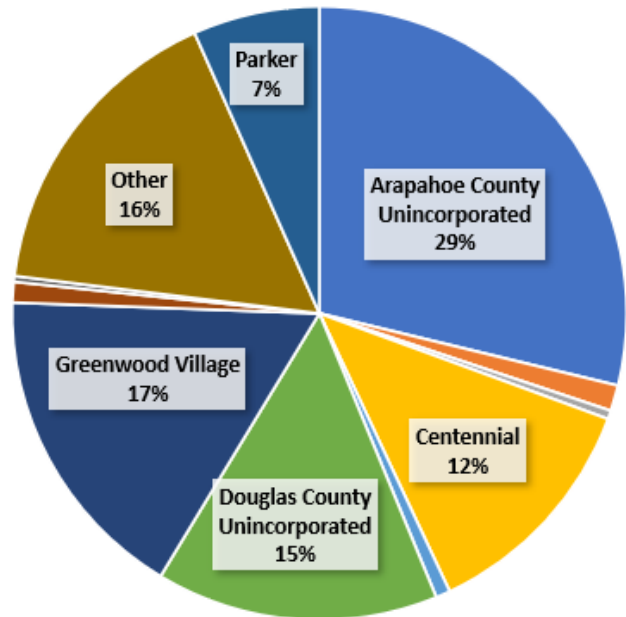
Noise Complaint Responses Completed	
Email	98
Phone	8
Total	106

Time Complaint Received	
Day (7:00 AM—9:59 PM)	923
Night (10:00 PM—6:59 AM)	91
Total	1,014

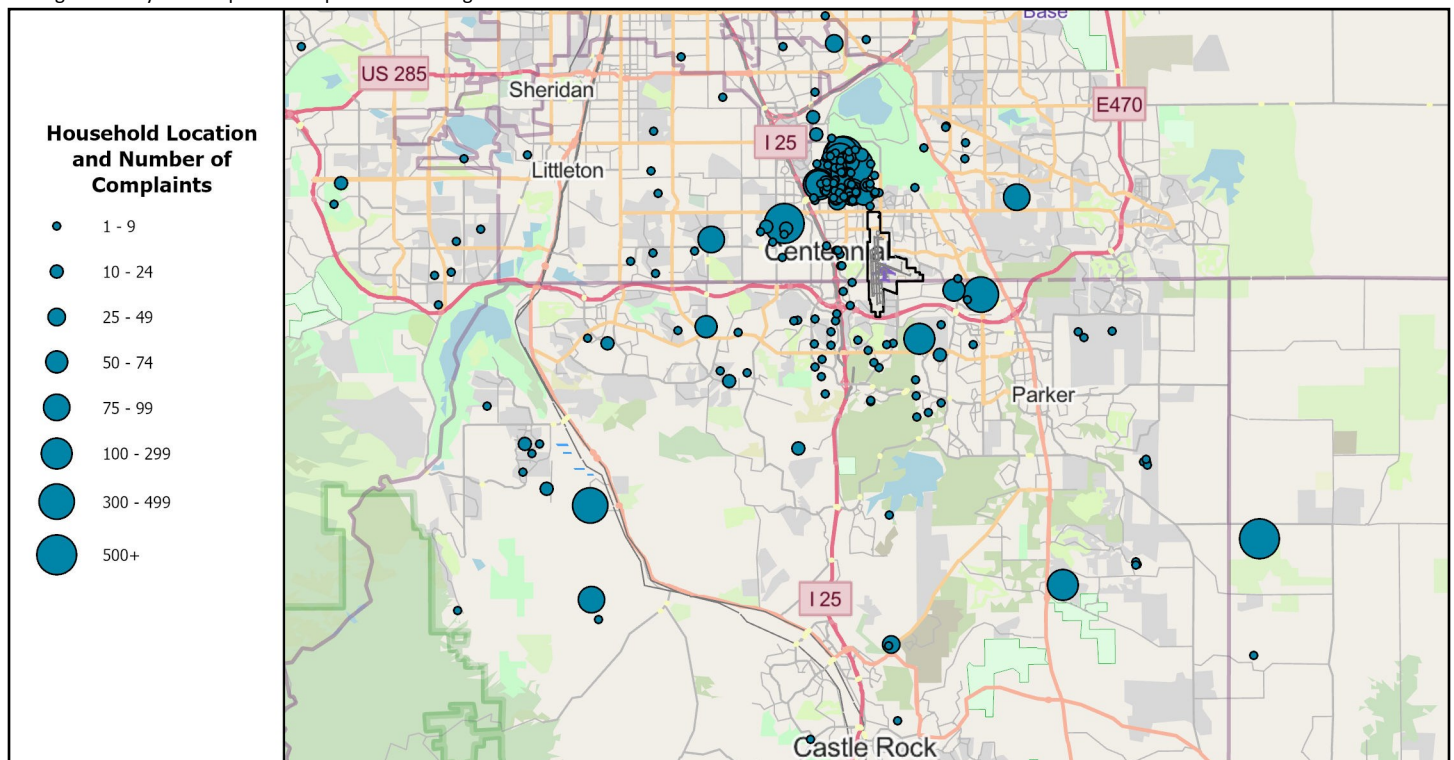
8. YEAR-TO-DATE 2025 NOISE COMPLAINT STATISTICS

Municipality	Complaints	Households	Population
Arapahoe County Unincorporated	2,165	63	98,066
Aurora	102	6	399,913
Castle Pines	1	1	14,000
Castle Rock	34	4	86,000
Centennial	936	17	108,422
Cherry Hills Village	7	2	6,442
Denver	57	8	715,522
Douglas County Unincorporated	1,118	41	276,493*
Greenwood Village	1,273	53	15,691
Highlands Ranch	81	7	103,444
Lone Tree	23	14	14,253
Parker	501	6	68,000
Other	1,233	20	-
Total	7,531	236	1,906,246

Complaints per Municipality

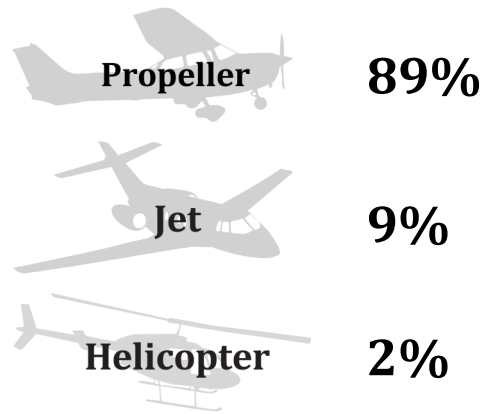


*Douglas County Unincorporated Population with Highlands Ranch Removed



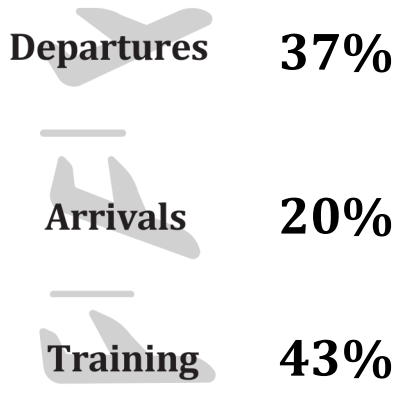
8. YEAR-TO-DATE 2025 NOISE COMPLAINT STATISTICS

Complaint by Aircraft Type



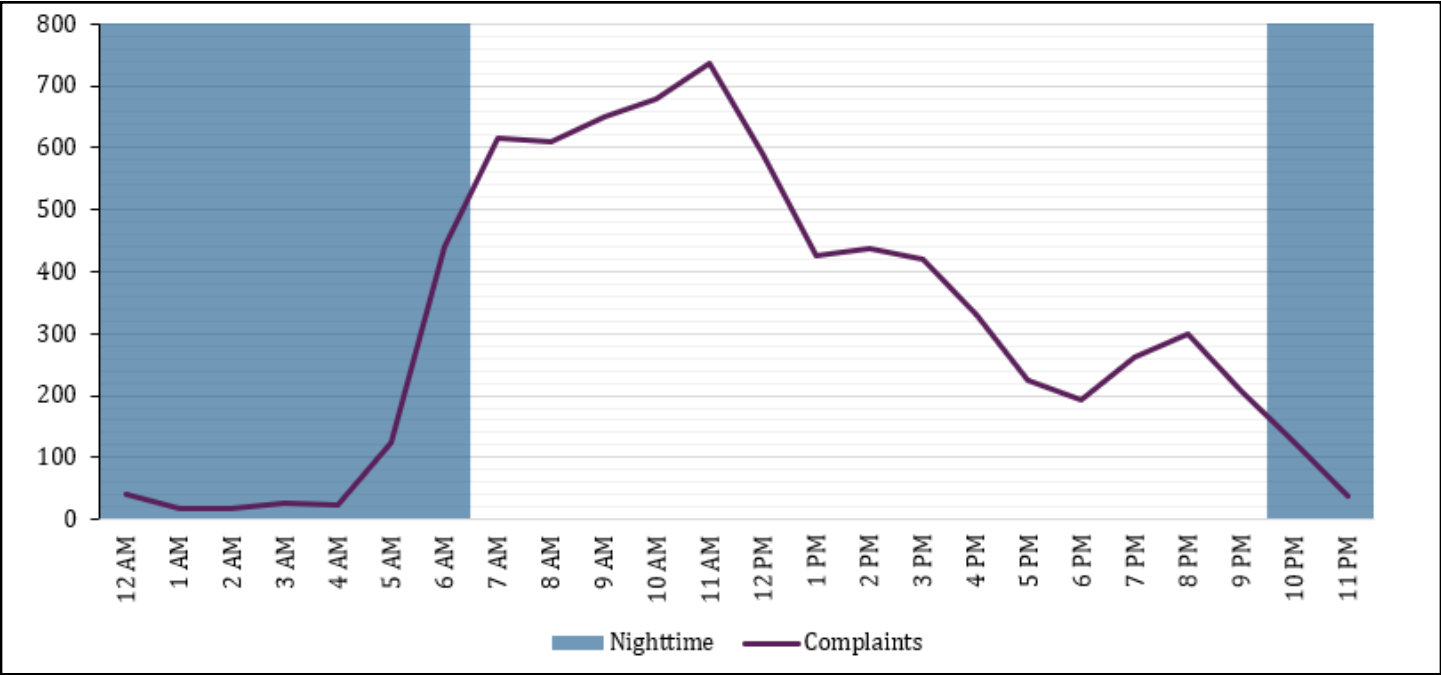
*#1 Household Removed

Complaint by Operation Type



*#1 Household Removed

Complaints by Hour

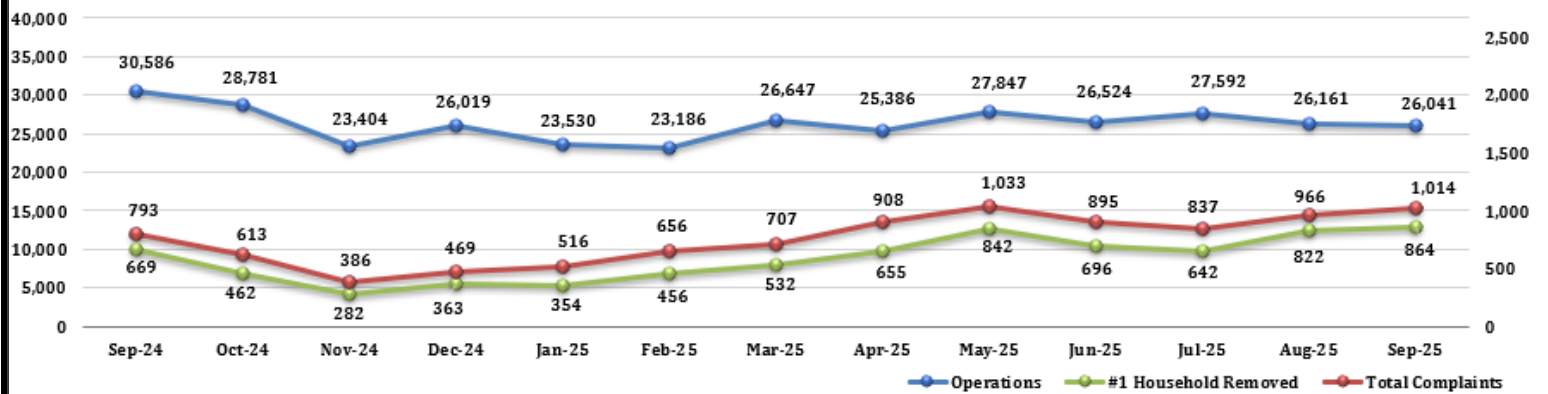


Noise Complaint Responses Completed	
Email	810
Phone	53
Total	863

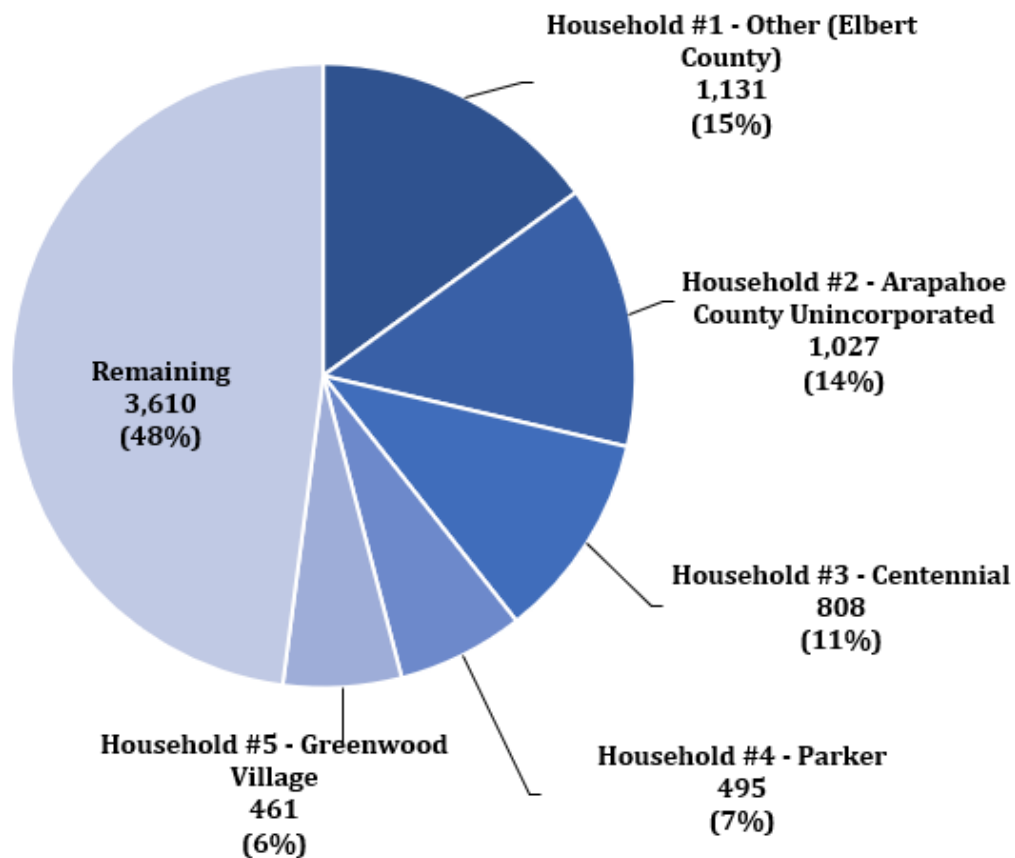
Time Complaint Received	
Day (7:00 AM—9:59 PM)	6,681
Night (10:00 PM—6:59 AM)	851
Total	7,532

8. COMPLAINT STATISTICS

13-Month Trend



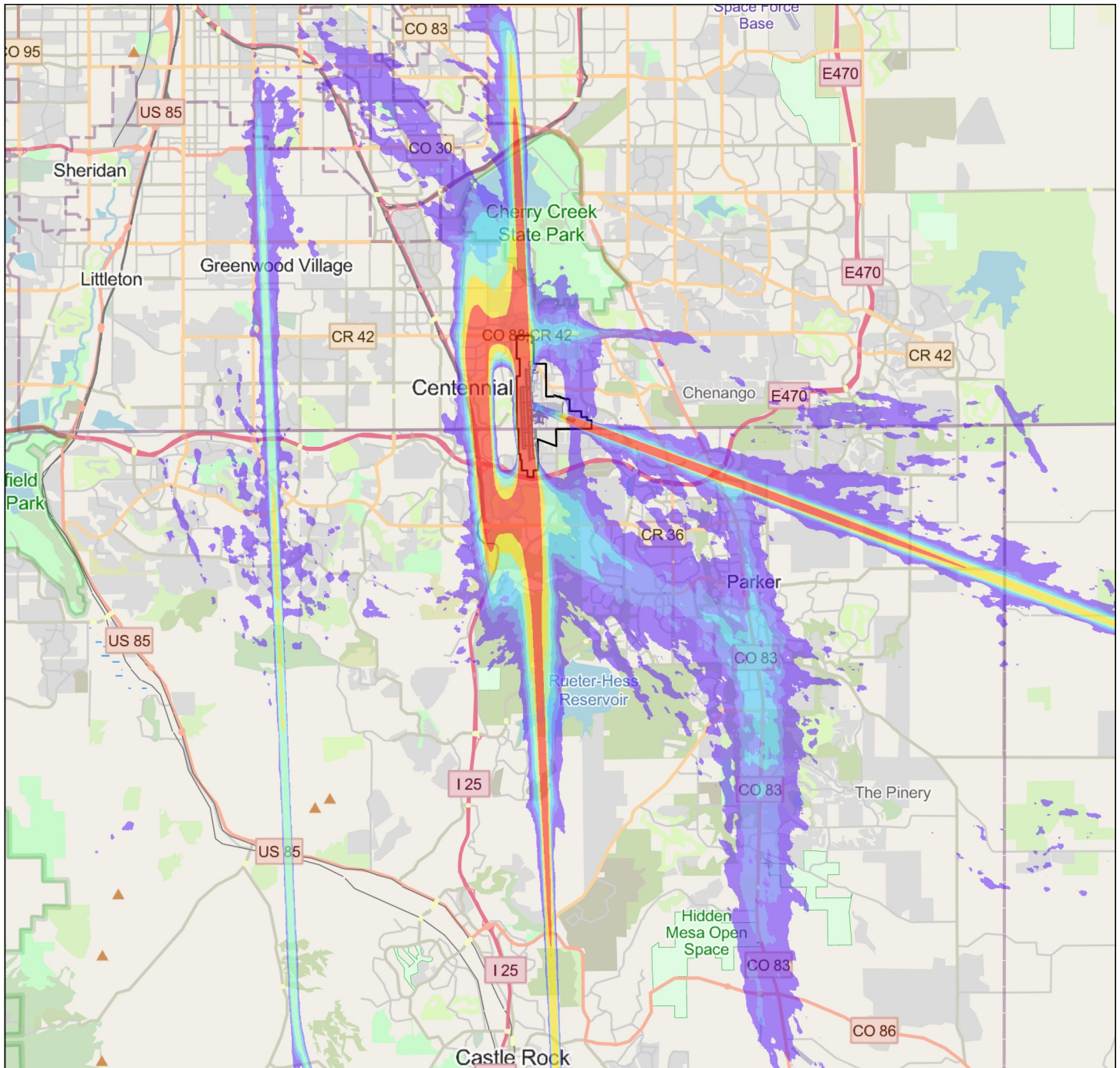
Top 5 Household Complaints YTD



9. CENTENNIAL AIRPORT RADAR TRACK DENSITY MAP

This map takes all of the flight track data for the given time period and creates 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.

SEPTEMBER 2025



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.



**CENTENNIAL
AIRPORT**

Noise Hotline: 303-790-4709

www.centennialairport.com

CAUTION
STUDENT PILOT TRAINING AREA
PRACTICE AREA ON 122.75

CAUTION
INTENSIVE STUDENT PILOT TRAINING AREA
CTC SE PRACTICE AREA ON 122.75

CENTENNIAL AIRPORT

Community Noise Roundtable Study Group Committee



Third Quarter 2025
Update Report
Published: November 2025
Report #9



TABLE OF CONTENTS

1. Executive Summary	Page 2
2. Glossary of Terms	Page 3
3. Background	Page 5
a. About the Study Group	Page 5
i. Formation of Study Group	Page 5
ii. Function of Study Group	Page 5
iii. Composition of Study Group	Page 6
iv. History of the Study Group	Page 7
b. About the Problem	Page 7
i. Challenges and Limitations	Page 7
ii. Drivers and Variables	Page 7
4. Mitigation Strategies	Page 8
a. Approach to Mitigation Strategies	Page 8
b. Adopted Mitigation Strategies	Page 9
i. FAA-ATC Strategies	Page 9
ii. Pilot Education and Awareness Strategies	Page 12
iii. ACPAA Operations Strategies	Page 14
1. Defined Study Area Map	Page 17
c. Mitigations Strategies Considered but Not Adopted	Page 18
i. FAA-ATC Strategies	Page 18
5. Study Area Data Analysis	Page 24
a. Data Process/Methodology	Page 24
b. Q3 2024 v. Q3 2025 Data Analysis	Page 25
6. Feedback and Considerations for Study Group	Page 32

EXECUTIVE SUMMARY

The third quarter (Q3) 2025 report of the Centennial Airport Community Noise Roundtable (CACNR) Study Group Committee (Study Group) provides the progress on the mitigation efforts and possible results from those efforts to address the use of the extended traffic pattern by training aircraft at Centennial Airport (APA).

Touch-and-go activity in the Study Area declined from 2024 to 2025. In Q3 2025, 6,990 aircraft entered the Study Area, down from 10,256 in Q3 2024, reducing the entry rate from 46.1% to 39.4%. Year-to-date through Q3, total entries decreased from 31,766 to 21,977, with the entry percentage falling from 49.8% to 41.5%.

This is the ninth progress report from the Study Group. The first report focused on the establishment of the Study Group and six mitigation strategies the Study Group identified as viable that could be implemented in the near term or before the summer of 2024. The second report focused on mitigation strategies adopted in the fourth quarter of 2023 as well as mitigation strategies the Study Group has considered but not adopted. The third report focused on data analysis specifically comparing the first quarters of 2023 and 2024. The fourth through eighth reports focused on data analysis of their respective quarters. This report is focused on data analysis specifically comparing the third quarters of 2024 and 2025. Notable updates [\(all updates to previous information indicated in blue\)](#) reported in this Q3 2025 report include:

1. Proactive Outreach & Education to Flight Schools – report page 13
2. Proactive Checking of Extended Traffic During Nighttime Hours – report page 14

Suggestions and potential mitigations from the Roundtable and/or the public can be submitted to the Study Group for consideration using the Google Form provided in this document. For more information on previously submitted suggestions please refer to the **Feedback and Considerations for the Study Group** section on page 32 of this report.

The Study Group continues to meet to assess the viability of additional mitigations, measure and determine the success, if any, of adopted mitigation strategies, and consider modifications to strategies. As a reminder, preparing and publishing these progress reports on a quarterly basis is a Study Group goal. There may be delays in providing these quarterly reports, like the Q1 2024 Report. Our community's continued patience and understanding is appreciated as we work diligently to solve this complex problem of aircraft using the extended downwind traffic pattern for training purposes.

GLOSSARY of TERMS

ACPAA - Arapahoe County Public Airport Authority

ADO - FAA Airports District Office

ANCA - Airport Noise and Capacity Act

ANOMS™ - Airport Noise and Operations Monitoring System

APA - Centennial Air Traffic Control Tower

ATC - FAA Air Traffic Control

ATO - Air Traffic Organization

CACNR - Centennial Airport Community Noise Roundtable

CDOT - Colorado Department of Transportation

Centennial Airport Voluntary Noise Abatement Procedures - The creation of the voluntary noise abatement procedures was one of the recommendations from the previous Part 150 Study that concluded in 2008. Several stakeholders were involved in the creation of these procedures including the FAA, CACNR, ACPAA and based pilots and flight schools.

FAA - Federal Aviation Administration

Full Stop Taxi Back - aircraft lands on runway, comes to a full stop, taxis off runway and takes taxiway back to runway threshold before taking off and entering into the pattern traffic.

FTE - Full Time Employee, in this instance refers to the full time noise analyst hired by ACPAA after a recommendation of the CACNR/Study Group.

Itinerant - aircraft that are based at other airports

Minimum Standards – prescribe regulations for the conduct of commercial aeronautical activity as Centennial Airport and specific certain clauses which will be included in lease agreements permitting the conduct of such activities.

NATCA - National Air Traffic Controllers Association

N.O.I.S.E. - National Organization to Insure a Sound-Controlled Environment

Operation – Takeoff, landing, low-approach or missed approach. A touch-and-go consists of 1 take-off and 1 landing (2 total operations).

Preferred Traffic Pattern Area - Traffic pattern that is south of Arapahoe Road, North of Lincoln Avenue and East of Interstate 25.

Stop & Go's - aircraft lands on runway, comes to a full stop, then takes off again from the same runway and enters into the pattern traffic.

Study Group - Centennial Airport Community Noise Roundtable Study Group Committee

Touch & Go's - aircraft lands on the runway then takes off again and enters into the pattern traffic.

Traffic pattern - the typically racetrack shaped pattern aircraft fly in preparation for landing. Traffic patterns typically consist of an upwind, crosswind, downwind, base and final.

TPA - Traffic Pattern Altitude

BACKGROUND

In the fall of 2022, residents to the north and west of Centennial Airport began reporting an increase in flights on the extended aircraft traffic pattern over their communities, resulting in them reporting a degradation in their quality of life.

About the Study Group

Community, Centennial Airport Community Noise Roundtable (CACNR), Arapahoe County Public Airport Authority (ACPAA) Board, and Airport staff generated several potential solutions. Upon examination and realization that those solutions would not be easy to implement and, acknowledging a need for both flight schools and the FAA at the table, the need for a working group became apparent to effectively proceed through the legal and technical challenges and constraints.

Formation of Study Group

The formation of this Study Group came after a significant amount of feedback and support from the community, CACNR, ACPAA Board and Airport staff, elected officials including Senators Bennet and Hickenlooper, Congressman Crow, Governor Polis, Hon. State Representative Dickson, the Arapahoe County Commissioners, Greenwood Village Mayor and City Council, Cherry Creek School District, and the Normandy Group.

Creation of this Study Group was officially approved by CACNR on March 1, 2023 (see minutes of March 1, 2023 CACNR Meeting). In a preliminary meeting on July 6, 2023 with the FAA Regional Office, the FAA agreed to provide technical support to the Study Group provided confidentiality could be provided for the FAA representatives. In the initial meetings with the FAA Regional Office, it was acknowledged that: (1) the group would need to get started as quickly as possible and that there would be no specific end date to the group's work and (2) some mitigations would hopefully be able to be implemented quickly while others could take much longer to research, test, and implement.

Function of Study Group

The Study Group was formed to work collaboratively and address the community annoyance created by the extended traffic pattern. This group was solely tasked with addressing annoyance directly related to noise exposure from aircraft on the extended traffic pattern and not other environmental concerns such as lead emissions from aircraft. Although lead emissions are not the focus of this Study Group, implemented mitigations could have the side benefit of reducing lead emissions.

The group is designed to propose, test and/or implement, and measure the effectiveness of noise mitigation strategies to reduce - to the greatest practical extent - exposure to aircraft noise for the communities north and west of the airport without moving the noise to another community.

Working on an “as quickly as possible” basis, the group meets weekly or biweekly to generate ideas of potential strategies. These strategies are assigned to members of the Study Group to explore their viability with technical and/or legal experts and conclusions are brought back for the next possible meeting. Viable strategies are then recommended for implementation by responsible parties and implemented where possible. For strategies whose viability is still being determined, next steps are identified and pursued. Decisions on which strategies are moved forward or not are made unanimously by the Study Group members, aside from Mead & Hunt and HMMH whose participation is a supplement to the Part 150 Study Centennial Airport.

Composition of the Study Group

Based on the collaborative, working nature of the Study Group, the complexities of the issue, the speed of work, and the frequency of meetings, a small but representative group was identified and approved by CACNR. The Study Group participants, as presented in the table below, were selected to represent a broad range of stakeholders that would bring varying degrees of technical expertise and experience to the group. This included participants with a direct link to the affected community and CACNR, experience with national and local noise issues, legal, pilot and air traffic background and technical expertise, and pilots and airport tenants that would or could be directly affected by any mitigations proposed or recommended by the Study Group. The Study Group also includes and meets with additional experts as needed to provide additional legal and technical input on the proposed mitigation strategies.

The CACNR Study Group Committee

Member	Position	Affiliation(s)
Brad Pierce	Chair	CACNR member, N.O.I.S.E. President, former Aurora City Council member
Chris Eubanks	Member	CACNR Chair, Pilot, Castle Pines City Council member
Jessica Campbell	Member	ACPAA Board member, Arapahoe County Commissioner (Dist. 2)
Mike Fronapfel	Member	ACPAA Executive Director, CACNR ex-officio member
	Member(s)	Flight school representatives as available
	Member	FAA Management
	Member	Airport Traffic Control
	Member	National Air Traffic Controllers Association
Kate Andrus	Advisor	Part 150 Consultant to APA – PM
Gene Reindel	Advisor	Part 150 Consultant to APA – Noise
Airport Staff	Technical Advisors	APA Noise Office

History of Study Group

The first Study Group meeting was held on July 21, 2023. The first through third meetings covered the rules and guidelines of the Study Group including the confidentiality of the FAA and Flight School participants, procedure for updates and communication to the public and elected officials, identifying and defining the problem and the drivers that are the cause of the problem. Beginning with the fourth meeting, the Study Group focused on identifying mitigation strategies, data and information needed, feedback from members and technical experts on the viability of potential strategies, and results of implementation measures through data analysis by the Airport staff.

ABOUT THE PROBLEM

Challenges and Limitations

There are several challenges with finding viable mitigations to the problem. Those challenges include, but are not limited to the following: maintaining safety, physical constraints, airspace limitations, variation in the mix of aircraft type, aircraft performance limitations, legal limitations (Interstate commerce law, Airport Noise and Capacity Act (ANCA), grant assurances, unreasonable access restrictions, unjust discrimination prohibitions, contractual limitations) controller and pilot workload, the ability of the FAA and Airport to reasonably manage and implement mitigations.

Drivers and Variables

The Study Group identified several drivers for the extended pattern including the May 2021 midair accident that occurred north of the airport, the resulting changes in how the FAA managed the aircraft in the pattern, increases in aircraft traffic/operations, itinerant traffic, variation of aircraft type, inconsistency among flight schools, specific training operations like stop and goes and taxi backs.

Variables the Study Group identified include aircraft arrivals, aircraft type (speed), operation type, weather, pilot comfort/ability and non-scheduled operations.

MITIGATION STRATEGIES

Mitigation strategies are any implementable program, measure, or action aimed to reduce the number of flights and noise north and west of the airport.

APPROACH TO MITIGATION STRATEGIES

The Study Group structures its work from a list of mitigation strategy ideas. These mitigation ideas come from community members, Study Group members, and examples from other airports. The list is not fixed. As ideas are brought forward, they are added to the list for assessment. The Study Group will assess every idea that is brought forward.

During the third quarter of 2023, the Study Group did an initial review of all mitigation ideas on the list at the time and ranked them from easiest (cheapest, most clearly legal, few administrative steps, fastest) to the hardest (most expensive, no clear legal authority, many steps to implement, would take years to implement). As new ideas come in, they are evaluated and ranked. Given that the Study Group is designed to implement potential fixes sooner rather than later, it has started with the “easiest to implement” mitigation ideas.

The Study Group assesses each idea from the angle of the overflights it seeks to reduce, its direct connection to overflights or noise, which entity has the authority to approve the mitigation strategy, which entity is responsible for implementation, whether an entity has the legal authority to implement it, its potential effect on safety, whether it will reduce overflights, whether it is technically possible to implement, and whether it is practically feasible to implement. When appropriate, the Study Group refers ideas to relevant experts.

Because the goal is to implement strategies as quickly as possible, decisions made by the Study Group are unanimous. Mitigation strategies that are adopted are then referred by the Group to the relevant entity (CACNR, ACPAA, FAA-ATC, etc.) to implement.

Strategies that are considered but not adopted by the Study Group fall into one or more of five categories: (1) there is not legal authority to implement the strategy, (2) the strategy would decrease safety, (3) it will not reduce overflights or noise, (4) it is not technically possible to implement, (5) it is practically unfeasible to implement. Strategies that fall into categories (4) and (5) may be pushed to the bottom of the list for further evaluation rather than be permanently ruled out.

The following two sections ***Adopted Mitigation Strategies*** and ***Mitigation Strategies Considered but not Adopted*** lay out mitigation strategies in three categories, first in a table and then with further explanation as appropriate. These categories are FAA - ATC strategies, Pilot Education/Awareness strategies, and ACPAA Operations strategies.

ADOPTED MITIGATION STRATEGIES

FAA-ATC STRATEGIES

Maintain and enhance operational safety, increase air traffic controller awareness of noise sensitive areas, reduce aircraft overflights of the community.

Utilize East Side of Airport During Nighttime Hours	
Adopted Mitigation Strategy:	During the late evening and early morning hours when FAA - ATC determines it's possible, utilize Main Runway (17L/35R) so that pattern work is conducted east of the Airport over commercial areas.
Problem Mitigation Addresses:	Pattern traffic over the community during late evening and early morning hours
Reduction of Noise Exposure:	Reduce the amount of late evening and early morning pattern traffic over the community.
Safety:	Maintained
Noise:	Reduced during nighttime hours
Authority to Approve:	FAA-ATO
Responsible for Implementation:	FAA-ATO
Implementation Date:	October 2023
Explanation:	In effort to be a good neighbor to our communities, it has been added to our facility's Standard Operating Procedures for controllers to utilize the east side of the airport for the traffic pattern when volume permits during late night and early mornings. This will place aircraft primarily over businesses and industrial parks instead of neighborhoods.
Measurable Impact:	Data on the number of flights directed away from neighborhoods during nighttime hours will be included in future reports
Updates:	All current and future air traffic controllers have or will receive(d) briefings/training regarding this adopted mitigation.

Noise Sensitive Areas on the Tower Radar Display	
Adopted Mitigation Strategy:	Noise sensitive areas added to radar display in the tower.
Problem Mitigation Addresses:	ATC awareness of noise sensitive areas in relation to aircraft in the traffic pattern.
Reduction of Noise Exposure:	By assisting ATC in identifying noise sensitive areas more easily, ATC be more aware of when overflights of the community are occurring.
Safety:	Maintained
Noise:	Potential reductions
Authority to Approve:	FAA-ATO
Responsible for Implementation:	FAA-ATO
Implementation Date:	October 2023
Explanation:	These maps will provide Air Traffic Controllers with awareness of the surrounding communities. While sequencing aircraft into 17R and 17L, controllers have to make the decision to extend the 17R traffic to follow traffic inbound to 17L or have the 17R aircraft complete a short approach. The maps aid the controllers in seeing the community and knowing the impact of extending to the North.
Measurable Impact:	ATC will collect data from controllers on their use of the maps.
Updates:	All current and future air traffic controllers have or will receive(d) briefings/training regarding this adopted mitigation.

Limit Number of Aircraft in the Pattern	
Adopted Mitigation Strategy:	Limit number of aircraft in traffic pattern
Problem Mitigation Addresses:	Extended pattern traffic and increased noise exposure to the community
Reduction of Noise Exposure:	Fewer aircraft could result in the traffic pattern being extended less frequently
Safety:	Maintained
Noise:	Potential reduction
Authority to Approve:	FAA-ATO
Responsible for Implementation:	FAA-ATO
Implementation Date:	Ongoing
Explanation:	Air traffic will limit the number of aircraft in the traffic pattern to ensure controller workload is manageable and maintain a safe, orderly and efficient flow of traffic. Restricting the number of aircraft in the pattern for safety and to manage controller workload also results in a flight path closer to the runway's final approach course, which benefits the community by reducing noise levels.
Measurable Impact:	Data is forthcoming
Updates:	Ongoing

Pilot Education & Awareness Strategies

To increase pilot education and awareness of community noise concerns, and to share mitigation strategies they can implement to reduce the communities' noise exposure.

Adopted Mitigation Strategy:	Noise Abatement Information on Chart Supplement
Problem Mitigation Addresses:	Centennial Airport receives flights from all over the US. Transient pilots are thus not always aware of the noise sensitive areas or preferred traffic pattern
Reduction of Noise Exposure:	A Chart Supplement is information provided about a local airport environment. Pilots are expected to review a chart and its supplements before taking flight. Enhanced awareness will drive a reduction in overflights of noise sensitive areas when pilots have discretion
Safety:	Maintained
Noise:	Potential reduction
Authority to Approve:	ACPAA & FAA
Responsible for Implementation:	ACPAA, FAA, & CDOT
Implementation Date:	Completed Fall 2024.
Explanation:	ACPAA is working to update the current chart supplement. There are several updates and/or enhancements to the chart supplement that can be made to improve its efficacy as a communication and education tool.
Measurable Impact:	Once implemented, ACPAA will work to amplify. True impact may not be measurable, but will likely contribute to an overall reduction in noise.
Updates:	Noise Abatement Information updates are now fully published in the SW US Chart Supplement. Airport Staff completed and submitted updated Chart Supplement information to the FAA for publication. Updated language as well as a graphical depiction of noise abatement information was added. This information includes several aspects of the airport's Voluntary Noise Abatement Guidelines including the preferred pattern area and a graphical depiction of noise sensitive areas.

Proactive Outreach & Education to Flight Schools	
Adopted Mitigation Strategy:	Develop and implement proactive outreach and education program to flight schools to increase pilot awareness of voluntary fly quiet procedures and preferred pattern area
Problem Mitigation Addresses:	Due to rapid turnover, flight school instructors and students are often unaware of noise issues, voluntary noise abatement procedures, or preferred traffic pattern area.
Reduction of Noise Exposure:	By developing & implementing a proactive outreach and education program, will keep flight instructors up to date on noise abatement efforts.
Safety:	Potential enhancement
Noise:	Potential reductions
Authority to Approve:	ACPAA, FAA-ATO
Responsible for Implementation:	ACPAA, FAA -ATO
Implementation Date:	In progress
Explanation:	There is a significant amount of flight instructor and student pilot turnover at flight schools based at Centennial Airport. Airport staff and local FAA representatives have committed to meeting quarterly with each flight school to discuss ways to make their operations safer, convey community concerns about noise and lead exposure, discuss recommendations on how they can help mitigate the noise exposure to the surrounding communities and to provide progress updates on how our voluntary noise abatement and mitigation procedures are working, and to explore ways to improve on them.
Measurable Impact:	The initial focus will be on outreach and establishing regular meetings
Updates:	The sixth meeting took place on September 24th. 14 flight school representatives attended. Air Traffic Personnel discussed safety issues and best practices. BridgeNet International discussed Flight School Flight Quiet Dashboard development. Dashboard is scheduled to be fully rolled out on January 1, 2026. Airport staff discussed Noise Abatement Guidelines, practice area usage, and presented Q2 2025 Study Group Report. The final meeting of 2025 is December 10th. Changes to the Centennial Airport Minimum Standards as of January 1, 2025 require flight schools to participate in these meetings, as well as have a local point of contact on airport to receive safety and noise abatement information.

ACPAA Operations Strategies

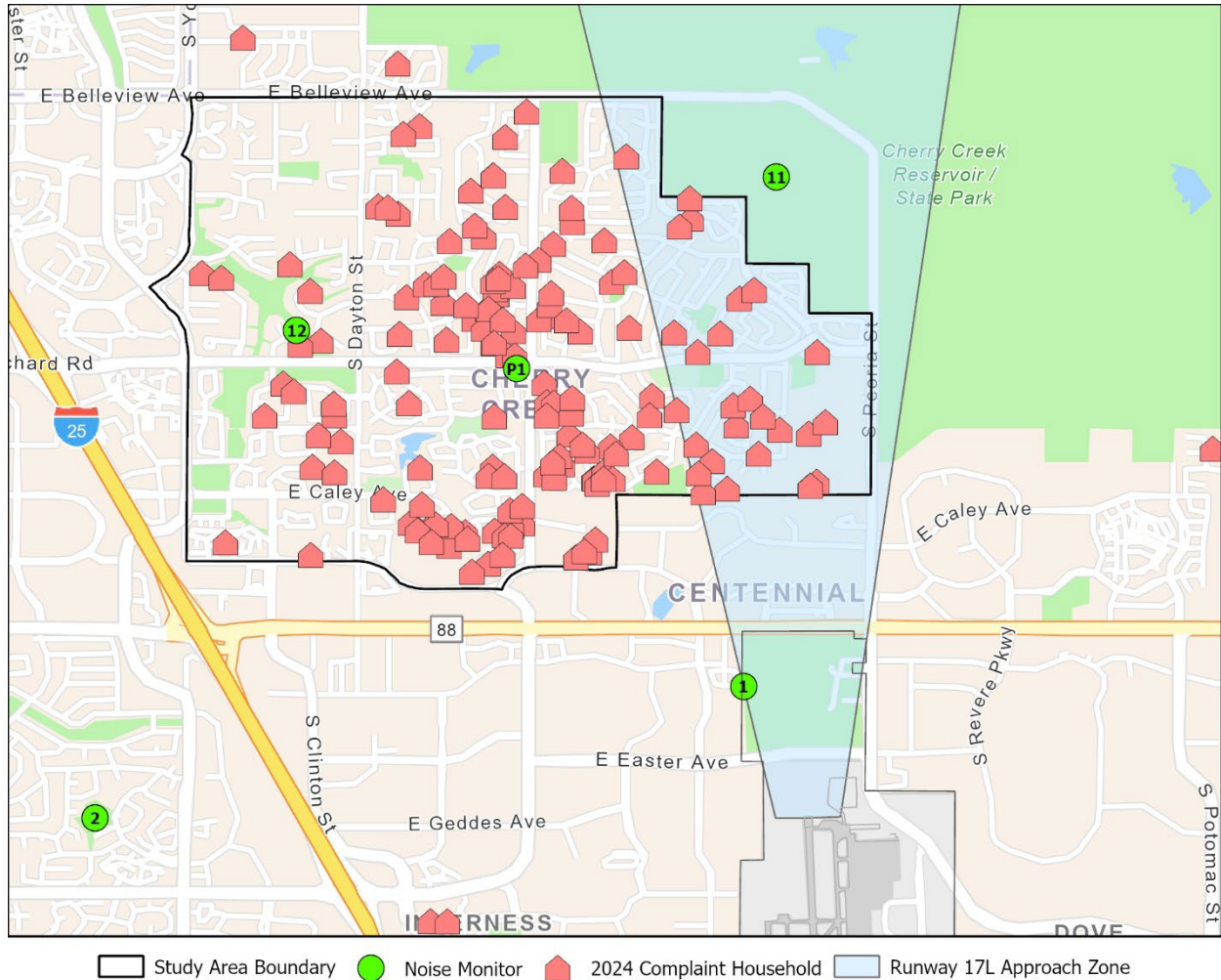
To provide methods to proactively identify and measure improvements in community noise exposure and the effectiveness of the implemented mitigation strategies.

Proactive Checking of Extended Traffic During Nighttime Hours	
Adopted Mitigation Strategy:	Airport staff will check for extended pattern traffic during nighttime hours (10 pm - 7 am) daily.
Problem Mitigation Addresses:	The occurrence of extended pattern traffic during nighttime hours (10 pm - 7 am).
Reduction of Noise Exposure:	By having Airport staff monitor outlier nighttime extended pattern traffic on a daily basis, the airport can quickly respond to outliers, and when able, determine causes and work to prevent the instances from occurring in a more proactive manner.
Safety:	Maintained
Noise:	Potential reduction
Authority to Approve:	ACPAA
Responsible for Implementation:	ACPAA
Implementation Date:	October 2023
Explanation:	Starting in October 2023 Airport staff began to actively track aircraft flying an extended pattern during night-time hours (10 pm - 7 am). If an aircraft is observed conducting an extended training pattern during night-time hours and there is no other aircraft in the pattern or on approach to a parallel runway airport staff will identify and contact the flight school and/or pilot and remind them to follow the voluntary noise abatement guidelines that specify keeping the pattern traffic south of Arapahoe Road, east of I-25 and north of Lincoln Avenue.
Measurable Impact:	Data is forthcoming. A handful of outliers have been identified since fall of '23. With the hire of an Airport data analyst, data will be more reliable. Reduction will be in the prevention of recurrence and ideally contribute to the overall reduction in overflights.
Updates:	The Noise Analyst in conjunction with the Noise and Environmental Specialist regularly look at nighttime outliers and analyze data. In Q3 2025 3 nighttime outlier aircraft were identified and contacted by the Noise and Environmental Specialist and reminded of the Voluntary Noise Abatement Guidelines. Outreach continues when nighttime outliers are identified.

Airport Add Full-Time Employee for Data Analysis	
Adopted Mitigation Strategy:	Airport hire a full-time employee dedicated to data analysis
Problem Mitigation Addresses:	Improve airport staff's ability to provide investigation, analysis and reporting of data from Airport Noise and Operations Monitoring System (ANOMS)
Reduction of Noise Exposure:	Uniform data on overflights is needed to measure the extent of overflights, noise exposure, and the results of mitigation strategies.
Safety:	An enhanced understanding of flight data will help the Airport better work with the FAA to identify mitigation strategies that will maintain or enhance safety while addressing overflights.
Noise:	A full understanding of flight data is essential to addressing the overflights.
Authority to Approve:	ACPAA
Responsible for Implementation:	ACPAA
Implementation Date:	Hired February of 2024
Explanation:	In February 2024, Centennial Airport created a new full-time position to support our Noise and IT Departments. This new employee will in-part focus on analyzing historical and ongoing flight data to evaluate within the defined study areas the effectiveness of the Study Group's implemented mitigation strategies. Updates on effectiveness of the implemented mitigations will be included in future reports.
Measurable Impact:	Indirect. This position enables us to measure the impact of mitigation strategies.
Updates:	The full-time employee continues to do various data analysis tasks for the Study Group to evaluate the overflights and as well as examining the effectiveness of implemented mitigation strategies. This report includes data prepared by the Noise Analyst.

Analyze Flight Track Data within the Defined Study Area	
Adopted Mitigation Strategy:	Analyze flight track data within the defined study area north and west of the airport.
Problem Mitigation Addresses:	Understanding the history of flights and current flights in the study area is essential to addressing the overflights and measuring the impact of mitigation strategies.
Reduction of Noise Exposure:	Ultimately this analysis will lead to mitigation strategies that reduce noise exposure.
Safety:	Indirect positive impact as the Study Group and Airport work with the FAA.
Noise:	Potential Reduction
Authority to Approve:	ACPAA
Responsible for Implementation:	ACPAA
Implementation Date:	February 2024
Explanation:	In consultation with the community, the Airport noise program staff, and informed by historical data, the Study Group has identified the below boxed area in the map to focus its data analysis. The area of analysis will encompass the residential areas bordered generally by DTC Blvd to the west, E Bellevue Ave to the north, S. Peoria St to the east and E. Peakview Ave to the south. The flight tracks will be filtered to include only local training pattern traffic. This will also allow us to separate out the aircraft that are arriving and departing the main runway versus aircraft that are likely flying in the training traffic pattern. This area map includes the general location of homes that filed noise complaints with the airport in 2023 as well as the locations of the permanent and portable noise monitor locations. Please see the proposed study area maps below.
Measurable Impact:	Indirect.
Updates:	Data Analysis Ongoing. See page 24 for update on data analysis and mitigations.

Defined Study Area Map



Note: The red polygons indicate households that filed complaints with the Airport in 2024. The black line represents the boundary of the Study Area. In this graphic, unlike those presented in monthly noise reports, polygons are not scaled based on the number of complaints. Complaints in the RY 17L Approach Zone are less in number. That area experiences a different pattern of traffic and is related but distinct from the areas to the west of the RY 17L Approach Zone.

MITIGATION STRATEGIES CONSIDERED BUT NOT ADOPTED

The Study Group identified a number of possible actions that **were not accepted** because they (1) decreased safety or (2) did not negatively impact safety but did not reduce noise.

FAA-ATC STRATEGIES

Maintain and enhance operational safety, increase air traffic controller awareness of noise sensitive areas, reduce aircraft overflights of the community.

Go Back to Previous Air Traffic Management	
Rejected Mitigation Strategy:	Go back to previous air traffic management: less positive control, parallel landings
Problem Mitigation Addresses:	Extended pattern traffic and increased noise exposure to the community.
Reduction of Noise Exposure:	Less aircraft overflights.
Safety:	Safety decreased
Noise:	Potential reduction
Authority to Approve:	FAA- ATO
Responsible for Implementation:	FAA- ATO
Reason Strategy Not Adopted:	The FAA's primary responsibility is managing air traffic in the safest and most efficient way possible. Positive control and staggering of landings increase safety. Air Traffic Controllers call base turns for aircraft for safety reasons and ATC has seen an improvement in safety at Centennial Airport because of the safety mitigation. Calling 17R base turns to "stagger" with traffic on 17L helps ensure safe and efficient operations. See below for further explanation.

On May 12, 2021, there was a midair collision between a Cirrus aircraft and a Metroliner while the aircraft were inbound to Centennial Airport. The Cirrus was on a right base turn¹ for runway 17R and the Metroliner was straight in for runway 17L. The Metroliner continued and landed on Runway 17L and the Cirrus landed in Cherry Creek State Park utilizing the pilot's airframe parachute.

¹ Base turn is a phase during the aircraft's traffic pattern for landing. It involves making a 90-degree turn from the downwind leg toward the final approach.

The FAA's continuing mission is to provide the safest, most efficient aerospace system in the world. While the collision did not result in injuries or fatalities, the Centennial Air Traffic Control Tower (APA) conducted an evaluation of safety into and out of the Centennial Airport.

At this time, the common practice was for aircraft to fly the 17R traffic pattern (west of APA) independently of the traffic on 17L.

APA identified the following data for activity between June 24, 2019 and June 24, 2021 (including the time frame in which the collision occurred):

- **Wrong Surface Landing²:** APA had 5 wrong surface landings and 4 reports of aircraft lined up for the wrong runway and corrected by ATC.
- **Pilot Initiated Go Around due to Collision Avoidance Resolution Advisory (TCAS RA)³:** APA had 37 go arounds due to aircraft responding to a TCAS RA for traffic on the parallel runway.
- **Suspected Surface Loss Involving Two Aircraft⁴:** APA had 14 reports of suspected loss of surface separation between two aircraft.

After evaluating these events, APA determined that air traffic controllers would stagger the arrivals into 17R and 17L. This procedure protects for aircraft that fly through their final⁵ and enhances safety with positive control⁶, rather than depending on pilots to see each other, using Visual Flight Rules (VFR). As a result, Air Traffic Controllers actively separate aircraft inbound to the parallel runways, which has proven to further enhance safety at the Centennial Airport.

APA identified the following data for activity between June 24, 2021 and August 15, 2023:

- **Wrong Surface Landings:** APA had only 1 wrong surface landing and 12 reports of aircraft lined up for the wrong runway and corrected by ATC. The increased

² A wrong surface landing occurs "when an aircraft lands or departs, or tries to land or depart, on the wrong runway or on a taxiway. It also occurs when an aircraft lands or tries to land at the wrong airport."

³ A Pilot Initiated go around occurs when the pilot determines they will not be at a safe altitude or heading to complete a landing in a safe manner and they abandon the approach. Air Traffic control will sequence them for the airport to attempt another landing.

⁴ A "surface loss" occurs when aircraft on surface movement areas (taxiway or runway) do not meet minimum separation requirements

⁵ The final approach course is the last segment of an aircraft's approach to landing. It is a straight flight path aligned with the extended centerline of the runway. During the final approach, the aircraft descends and aligns itself with the runway for a smooth landing. Pilots aim to maintain a stabilized approach during this phase.

⁶ Positive Control for air traffic controllers means having continuous contact with an aircraft and providing specific instructions and clearances to ensure safe and orderly air traffic. This involves actively managing the aircraft's movements, ensuring proper separation from other aircraft, and maintaining situational awareness for controlled and secure airspace.

number of aircraft being identified lining up for the incorrect runway proves an increased scan and awareness for aircraft on the final approach course.

- **Pilot Initiated Go Around due to Collision Avoidance Resolution Advisory (TCAS RA):** APA had 15 go arounds due to aircraft responding to a TCAS RA for traffic on the parallel runway. By sequencing arrivals, fewer aircraft operated in conditions that required go arounds for safety.
- **Suspected Surface Loss Involving Two Aircraft:** APA had 7 reports of suspected loss of surface separation between two aircraft. This has improved due to enhanced tower teamwork and visual scanning throughout the airport environment. Controllers are fully aware of what the other controllers are doing and are able to see unsafe situations developing and make corrections in a timely manner.

APA Safety Data on Air Traffic Procedures		
Type of Safety Event	June 24, 2019- June 24, 2021	June 25, 2021- August 15, 2023
Wrong Surface Landing	5 Wrong surface landings, 4 Lined up for wrong runway and corrected.	1 Wrong surface landings 12 Lined up for wrong runway and corrected
TCAS RA Go Around (Pilot Initiated)	37	15
Surface Loss of Separation	14	7

The data above shows improved safety due to the mitigations that were compared to the years prior to the midair collision. The FAA's goal is to always improve safety, not reduce it. Air Traffic Controllers call base turns for aircraft for safety reasons and the FAA has seen an improvement in safety into APA because of the mitigation. Calling 17R base turns to "stagger" with traffic on 17L helps ensure safe and efficient operations for the following reasons:

- **Sequence and Separation:** By instructing aircraft to make a base turn, air traffic control can sequence incoming flights and maintain safe separation between them. This reduces the risk of mid-air collisions and ensures that each aircraft

has adequate space to complete their approach and landing.

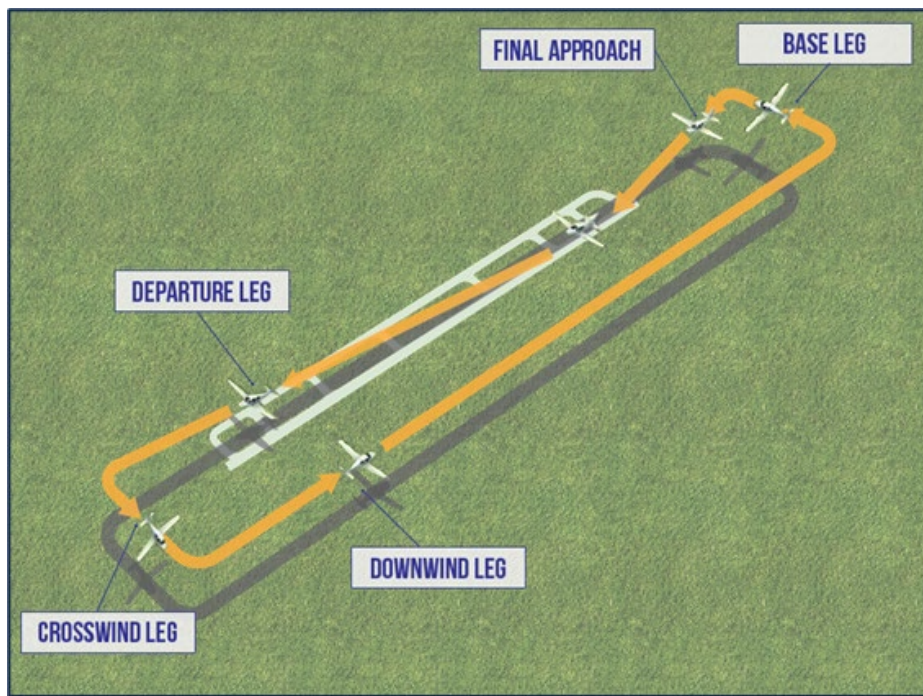
- **Traffic Flow Management:** Coordinating base turns allows air traffic controllers to manage the flow of traffic into the airport, preventing congestion and ensuring that aircraft are spaced out to avoid conflicts.
- **Conflict Resolution:** In busy airspace, it's crucial to have a clear plan for each aircraft descent and approach. Base turns help resolve any potential conflicts between arriving and departing aircraft, making the airspace safer and more organized.

Require Increased Pattern Altitude	
Rejected Mitigation Strategy:	Require an increased pattern altitude
Problem Mitigation Addresses:	Noise exposure to the community
Reduction of Noise Exposure:	Increased distance from noise source
Safety:	Maintained
Noise:	No noticeable reduction
Authority to Approve:	FAA-ATO
Responsible for Implementation:	FAA-ATO
Reason Strategy Not Adopted:	Requiring an increased altitude will increase the number of flights north and west of the airport (contradicting the purpose of this Study Group) while providing no decipherable reduction in noise.

The traffic pattern altitude (TPA) is the mean sea level altitude at which an aircraft will enter or remain in the pattern as shown in the graphic below – the TPA being the altitude outside of the departure leg and final approach. The potential kinetic energy of the aircraft is a balance of altitude and speed. Each aircraft has a specified approach speed, denoted by (V_{ref}); “V” being velocity, and “ref” being reference for the aircraft weight, configuration, and the runway and atmospheric conditions at the time of flight. V_{ref} is fixed by the aircraft manufacturer. This only leaves altitude as the adjustable variable.

If the altitude is increased, the aircraft extends its distance on the downwind leg prior to turning on the base leg to maintain a relatively fixed glide path angle or rate of descent on final approach, which is stabilized and safe. Therefore, if the TPA is increased, the distance on the downwind leg must be extended for the aircraft to safely reduce its energy and land on the runway. In the case of APA, this would result in aircraft extending the downwind leg further north of Arapahoe Road when landing to the south and would go against one of the goals of this Study Committee, which is to reduce the length of the downwind leg to not extend beyond Arapahoe Road.

The TPA is not an effective method for reducing aircraft overflight noise. The current TPA would have to be doubled, to 2000-3000 feet above ground level to result in a decrease of 6 dB. The perceptible limit of sound change starts at 3 dB, so unless the TPA is raised significantly, the reduction of noise would be barely detectable, and ANY change to the TPA would result in a longer downwind leg, which is contrary to goals voiced by the committee to limit the overflights north of Arapahoe Road.



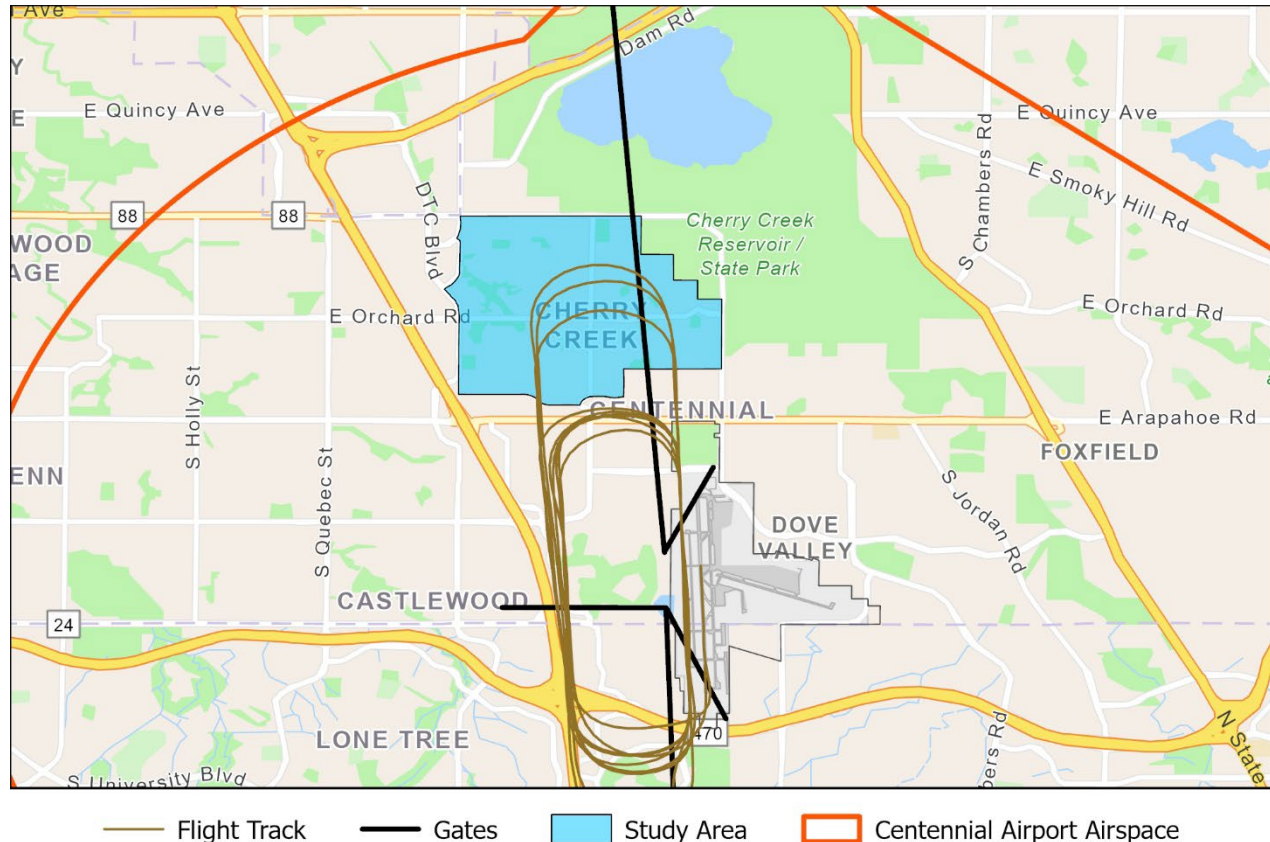
STUDY AREA DATA ANALYSIS

PURPOSE

The purpose of this data analysis is to quantify the number of touch-and-go aircraft operating within the Study Area, defined as the region located north of Peakview Avenue, south of Belleview Avenue, east of DTC Boulevard, and west of S. Peoria Street. This analysis compares Q3 2024 with Q3 2025.

DATA PROCESS/METHODOLOGY

Using Centennial Airport's Noise and Operations Monitoring System (ANOMS™), aircraft tracks were filtered to include only those passing through defined gates along the Runway 17R/35L traffic pattern. A gate serves as a "window in the sky," established in the ANOMS™ system, through which an aircraft track must pass to be considered part of the traffic pattern. All associated gates (shown below) must be traversed for an aircraft to be classified as established in the Runway 17R/35L traffic pattern. Various data processing methods were tested to identify the most effective approach for detecting community overflight activity. Additionally, Airport staff collaborated with the ANOMS™ vendor to verify data integrity and ensure that the processing methods used provide an accurate representation of aircraft activity. Examples of touch-and-go flight tracks captured from this process are shown below.



Q3 2024 v. Q3 2025

ANALYSIS SUMMARY

Touch-and-go aircraft activity in the Study Area declined notably from 2024 to 2025. In Q3 2025, 6,990 aircraft entered the Study Area, down from 10,256 in Q3 2024, reducing the entry rate from 46.1% to 39.4%. Through Quarters 1–3, total entries decreased from 31,766 to 21,977, with the percentage of aircraft entering falling from 49.8% to 41.5%. Trend analyses from July 2023 through September 2025 show a sustained downward trajectory in both total touch-and-go operations and entries into the Study Area.

Generally, total APA operations, touch-and-go aircraft and touch-and-go aircraft entering the Study Area entries move together. July 2025 deviated from this pattern, with overall operations increasing while touch-and-go activity and entries declined, before returning to typical interdependence in August and September. September 2025 was the second busiest operational month since September 2024, though activity remained lower than previous years, with 2,546 fewer operations and 749 fewer Study Area entries. Most Study Area entries (68.8%) occurred between Peakview and Orchard. 80% of touch-and-go aircraft that entered the Study Area were when the airport was in South flow.

While September 2025 saw an increase in operations compared to preceding months, this level aligns with historical operational patterns at the airport, reinforcing that the overall trends remain consistent with long-term activity levels.

Quarterly FAA, ACPAA, and Flight School Safety and Noise Abatement Meetings appear to align with peak touch-and-go months, often followed by measurable declines, suggesting that timing may influence activity levels.

****Disclaimer:*** *The Study Group emphasizes the importance of data integrity in these reports. Since the Q1 2024 report, we have adopted new data collection methods to enhance the accuracy of the information presented.*

FIGURE 1

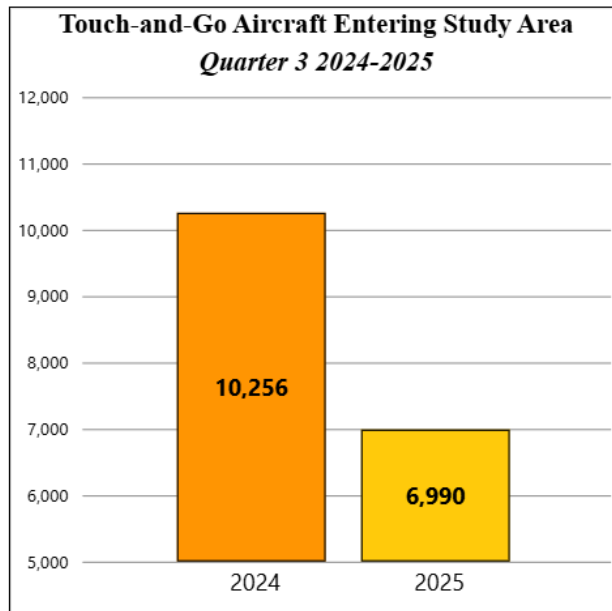


Figure 1.1

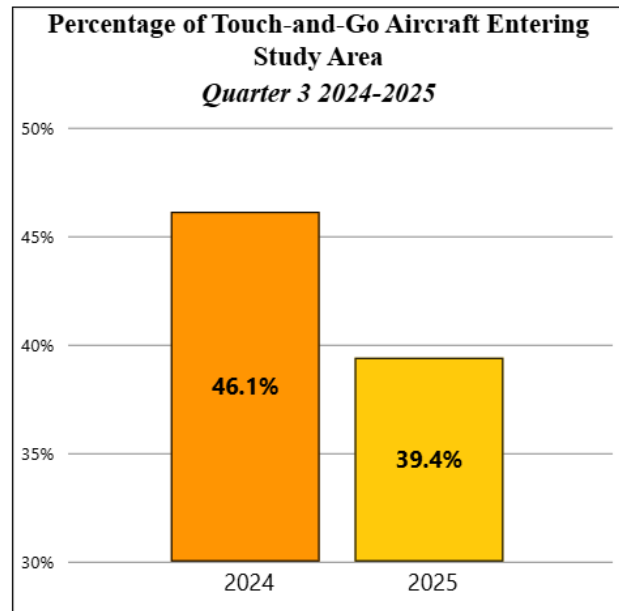


Figure 1.2

Figure 1.1 illustrates the number of touch-and-go aircraft entering the Study Area during Q3 2024 and 2025. In Q3 2024, there were 10,256 aircraft, which decreased to 6,990 in Q3 2025, marking a reduction of 3,266 aircraft.

Figure 1.2 depicts the percentage of touch-and-go aircraft entering the Study Area over the same period. In Q3 2024, 46.1% of touch-and-go aircraft entered the Study Area, which declined to 39.4% in Q3 2025.

Takeaways:

- **Clear decrease:** There was a definitive decrease in the number of touch-and-go aircraft entering the Study Area in Q3 2025 compared to Q3 2024.
- **Contributing Factors:** Weather, ATC Staffing, Effective Study Group Mitigations (FAA, ACPAA, and Flight School Safety and Noise Abatement Meetings).

FIGURE 2

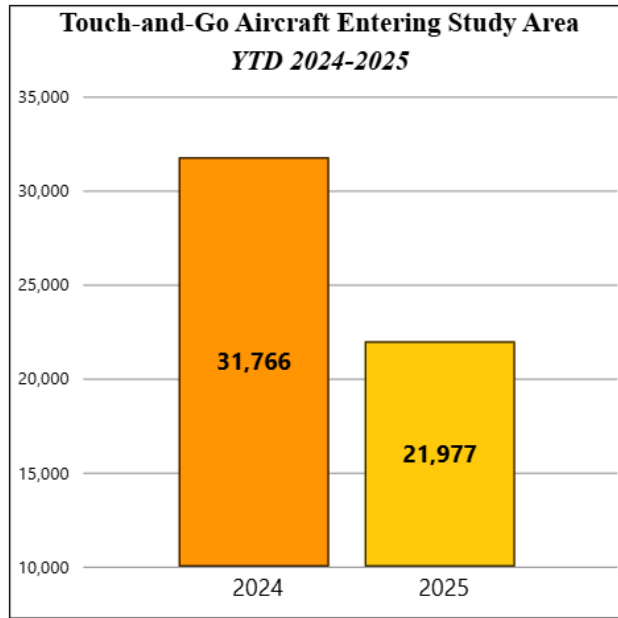


Figure 2.1

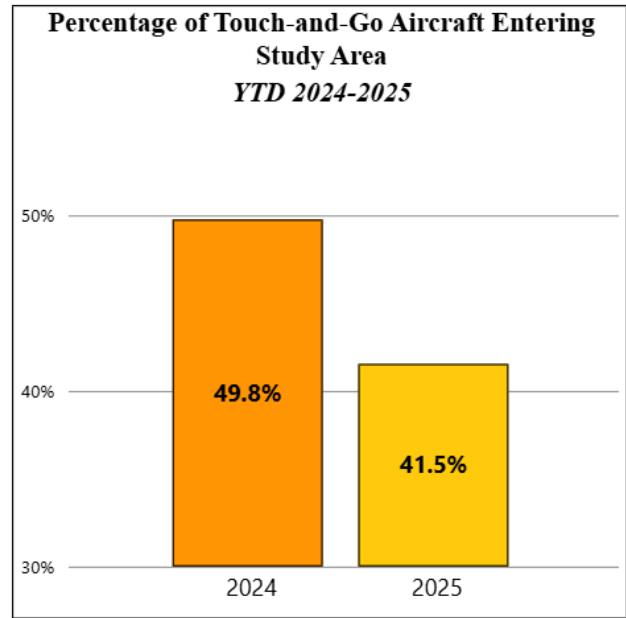


Figure 2.2

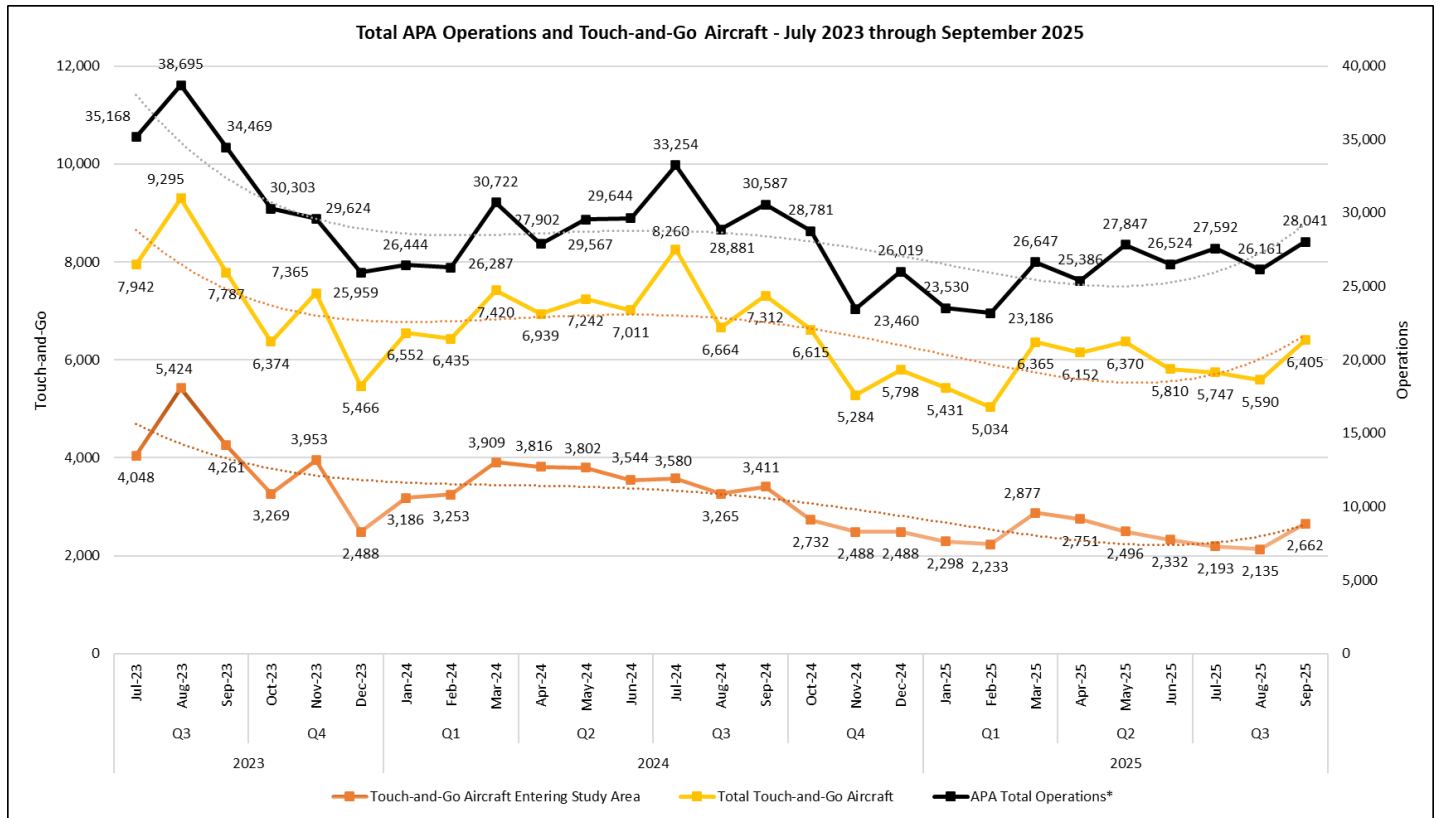
Figure 2.1 displays the total number of touch-and-go aircraft entering the Study Area in Quarters 1 through 3 in 2024 and 2025. In 2024, there were 31,766 touch-and-go aircraft, which decreased to 21,977 in 2025, reflecting a reduction of 9,789 aircraft.

Figure 2.2 shows the percentage of touch-and-go aircraft entering the Study Area during the same period. 2024 had 49.8% of touch-and-go aircraft enter the Study Area and 2025 had 41.5%.

Takeaways:

- **Clear decrease:** There was a definitive decrease in the percentage of touch-and-go aircraft entering the Study Area in Q1 through Q3 of 2025 compared to 2024.
- **Contributing Factors:** Weather, ATC Staffing, Effective Study Group Mitigations (FAA, ACPAA, and Flight School Safety and Noise Abatement Meetings).

FIGURE 3



**see glossary for Operations.*

Figure 3 illustrates the number of **Touch-and-Go Aircraft Entering the Study Area**, **Total Touch-and-Go Aircraft**, and **Total APA Operations**. Polynomial trend lines (dashed) captures seasonal peaks and dips while showing overall patterns in monthly operations and touch-and-go activity.

This visualization highlights the correlation between these key metrics: as the total number of touch-and-go aircraft increase, total APA operations increase. Generally, as the total number of touch-and-go aircraft rise, so does the number of touch-and-go aircraft entering the Study Area.

In July 2025, the three metrics operated more independently: overall operations increased from June 2025, while both the number of touch-and-go aircraft and aircraft entering the Study Area declined, deviating from the typical trend. By August and September 2025, however, the metrics returned to their usual pattern of interdependence.

September 2025 was the second busiest operational month since September 2024, surpassed only by October 2024. Compared to September 2024, overall operations in September 2025 were 2,546 fewer, with 749 fewer touch-and-go aircraft entering the Study Area. Among the past 3 Septembers, September 2025 recorded the lowest activity levels.

Takeaways:

- **Historic Lows:** The number of touch-and-go aircraft entering the Study Area saw its lowest values in July and August 2025 since formation of the Study Group.
- **Overall Decline:** All trend lines point generally downward, signaling a long-term decline in operational activity and touch-and-go movements since mid-2023. Trend lines capture seasonal operational fluctuations.
- **Operational Comparison:** September was the busiest month of 2025, recording the highest total operations, most touch-and-go aircraft and third most touch-and-go aircraft entering the Study Area of the year. However, March 2025, which recorded the highest number of touch-and-go aircraft entering the Study Area this year, had 1,394 fewer operations, 40 less touch-and go aircraft yet 215 more aircraft entered the Study Area compared to September.

FIGURE 4

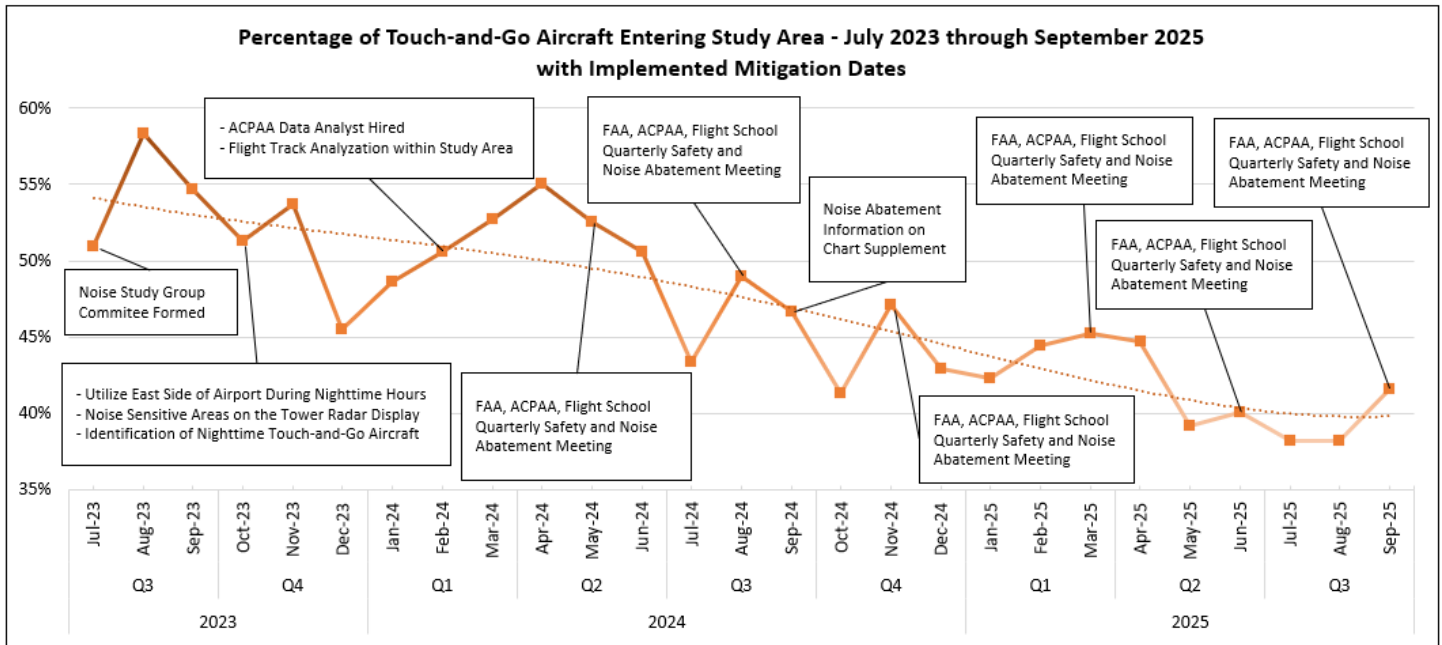


Figure 4 illustrates the trend in touch-and-go aircraft entering the Study Area from Q3 2023 through Q3 2025. The orange line shows the percentage of entries. A Polynomial trend line (dashed orange line) captures seasonal peaks and dips while showing overall patterns in monthly operations and touch-and-go activity.

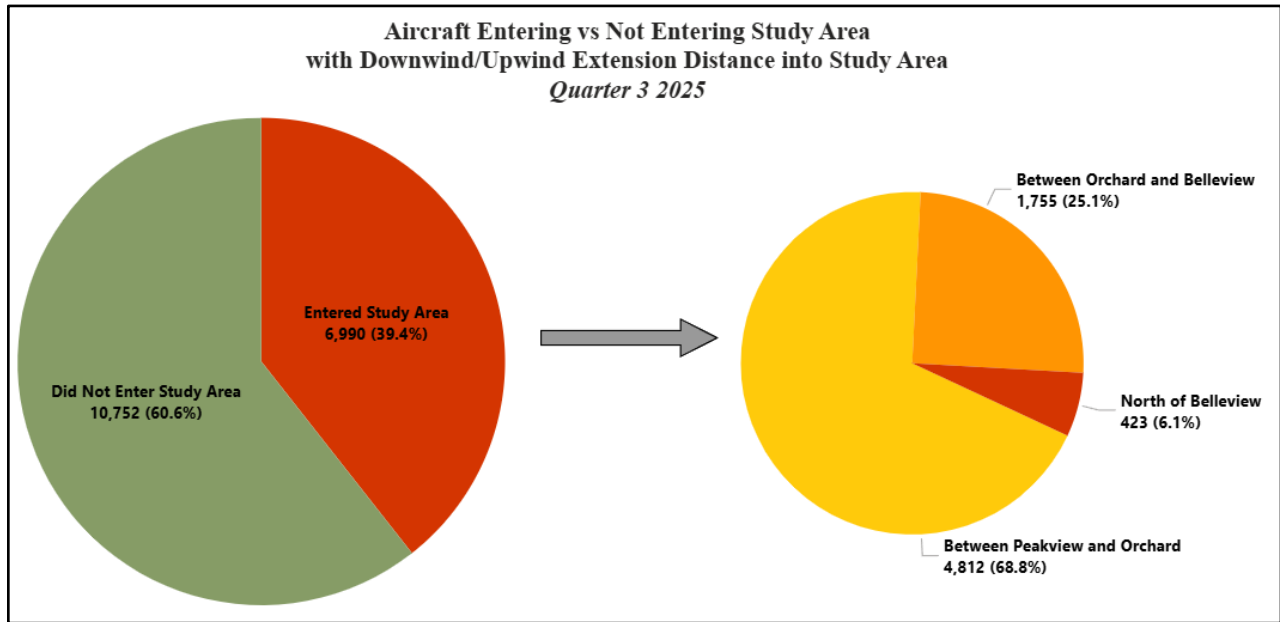
North flow continued to be used relatively the same amount operationally, that is the number of aircraft, in Q3 2025 as in the latter months of Q2 2025. However, south flow was in use for approximately 80% of touch-and-go aircraft that entered the Study Area in September 2025, meaning touch-and-go aircraft had a better chance of entering the Study Area due to the extended downwind.

Previous FAA, ACPAA, and Flight School meetings—held in May, August, and November 2024, and March, June and September 2025—coincided with peak months and were followed by measurable declines in activity, underscoring the potential effectiveness of strategic timing. The next report will show the effectiveness of the September meeting.

Takeaways:

- **Clear Trend Analysis:** The timeline from July 2023 through September 2025 reveals a downward trend in the percentage of touch-and-go aircraft entering the Study Area.
- **Effectiveness of Mitigation Strategies:** The marked dates of implemented mitigation strategies correlate with a noticeable decline in touch-and-go aircraft following the FAA, ACPAA, and Flight School Safety and Noise Abatement Meetings in May, August and November 2024 and March, June and September 2025, suggesting that this strategy has positively influenced operational behavior.

FIGURE 5



The left side of Figure 5 compares the number and percentage of touch-and-go aircraft that entered versus did not enter the Study Area. In Q3 2025, 6,990 aircraft entered the Study Area.

The right side breaks down these 6,990 aircraft by how far each aircraft extended its downwind or upwind leg. These categories are cumulative: for example, if you live between Peakview and Orchard, you experienced overflights from all aircraft flying in that segment and all segments north, totaling 6,990. If you live between Orchard and Belleview, your overflight total includes aircraft in that segment and north of Belleview—a total of 2,178.

Most aircraft entering the Study Area (68.8%) made their base or crosswind turn between Peakview and Orchard.

Takeaways:

- **Majority of Aircraft Do Not Enter the Study Area:** In Q3 2025, most touch-and-go aircraft did not enter the Study Area (10,752).
- **Upwind/Downwind Extension:** Compared to other reports, touch-and-go aircraft are not extending as far into the Study Area, with most initiating their base or crosswind turns before reaching Orchard.

FEEDBACK AND CONSIDERATIONS FOR THE Study Group

In Q2 2025, the Study Group did not receive any comments or suggestions via the online submission form.

We encourage aviation professionals, legal experts, and community members to examine the reasoning behind our conclusions. Should you disagree and have evidence to consider or a differing interpretation of the law, data, data analysis or results, please fill out the google form [HERE](#). Additionally, as it has been our commitment from the outset to consider all potential solutions, we invite you to submit potential solutions through the form as well.

A few notes about the form and how the Study Group will respond to submissions:

- All submissions will be read and considered based on their relevance to the work of this group, which is overflight and noise abatement for the area north and west of the airport.
- Because the work of this group is in addition to the duties of the members, do not expect a response. The default will be no response. However, where more information or context would be helpful or is needed, a response may be sent.
- Group members respectfully request constructive responses only. This form is an experiment and if abused, there will be consideration of deleting the form.

URL for the feedback form: <https://forms.gle/uxDUFgkkkvDBG31s8>

Current and past reports may be found [HERE](#).

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE		2026 DRAFT BUDGET 10/30/25		
		2026 BUDGET	2025 ACTUAL	(as Of 10/31/25)
INCOME:				NOTES
CARRY OVER FROM PRIOR YEAR	\$ 34,000.00	\$ 24,448.97		approximate carry over from prior year
ACPAA	\$ -	\$ 10,000.00		not to be invoiced for 2026 - donation still accepted
CACNR REGULAR MEMBERS	\$ -	\$ 7,500.00		12 Regular Members not to be invoiced for 2026
TOTAL INCOME:	\$ 34,000.00	\$ 41,948.97		
EXPENDITURES:				
WORK PROGRAM:				
PROJECT EXPENDITURES	\$ 7,300			
WEBSITE	\$ 5,000	\$ 862.89		Webmaster; Website maintenance and update
EXECUTIVE/WORK PLAN	\$ 500	\$ -		Annual Report
CONFERENCES:	\$ 9,000	\$ 4,806.84		2 reps tp UC Davis Symposium in 2025
		\$ -		no NOISE conference held in 2025; \$4,000 had been budgeted
CONSULTATION/EDUCATION:	\$ 2,000			Projects with consultant(s) for entire Roundtable
MEMBERSHIP DUES	\$ 1,000	\$ 1,000.00		N.O.I.S.E.
ADMINISTRATIVE	\$ 2,000	\$ -		Consultation on Work Plan
	\$ 3,000	\$ -		Legal
	\$ 1,650			Meeting Space
	\$ 1,500			Recorder
RESERVE	\$ 1,050.00	\$ 606.14		for presently unidentified and unanticipated expenses and/or CACNR activities consistent with the approved Work Plan.
TOTAL EXPENDITURES:	\$ 34,000.00	\$ 7,275.87		
CARRY OVER TO 2027	\$ -	\$ 34,673.10		Actual to be determined at the end of each year
** 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 COMMUNITY NOISE ROUNDTABLE

OCTOBER 1st, 2025 MEETING

➤ Public Comment

- In person from Louviers and Parker:
 - Time of day volunteer Flight Quiet Hours, Volume noticeable increase, Altitude “violations”

➤ August 2025 Noise Report

- Complaints received by time of day 5-7am peak/ Complaint by Operation – Departures increased 37% while Training decreased 40%. Seeing training below 50%
- YTD #1 Other – Elbert County #2 UAC, #3 Centennial, #4 Parker, #5 GV = 54% of calls. Remaining 3,610 or 46% time and effort

➤ Portable Noise Monitor – 3 Towers / 13.5 MN SE of Airport

- Aircraft DNL: 40
- Average Aircraft LMax: 59 Remains consistent

3 Towers 13.5 MN Se of KAPA		Oct-24	Jun-25	Jul-25	Aug-25
Centennial Airport Associated Flight Track within 1 Mile of NMT by Operation Type					
	Arrival		41	129	95
	Departure		46	160	144
	Training		105	270	258
KAPA Aircraft Noise Events		508	581	577	559
	60-69 DBL	176	215	188	197
	70-79 DBL	12	42	22	9
	80-89 DBL	0	0	0	2
Total Aircraft Noise Events		1,302	1,150	1,174	1,308

ADT for 3-month period = 1,248 / 13.8 over flights per day / 50% is training (633). Decibels (675 events) 39% of activity is 60 DB or above. 13.5 miles from airport, Total Aircraft Noise Events 3 months = 3,632 meaning aircraft circles 1.9 to 5.7 times over monitor. Imagine buzzing fly.

➤ Study Group

- Roll Out Dashboard January 1

➤ Q2 2025 APA Flight School Safety & Noise Abatement Meeting

- Dashboard: Minimum Standards / aid compliant?
 - Receptive and collaborative
 - Scoring to be effective and fair for all
- Noise Report: discussion and distribution of “Hot Spots” Highlight
- Urged flight Schools not to perform ground reference maneuvers in 3 Towers training box highlight Conversations are key – Round Table / Study Group / Airport Staff / Board / FAA

➤ New Noise Website Demo – Wow! Information and data at public’s fingertips / more to come / Kudos!

REPORT TO THE CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

November 5, 2025

FROM: Zachary Gabehart – Planning Specialist, Noise & Environmental

SUBJECT: 2025 3rd Quarter Land Use Referrals Report

RECOMMENDATION: Advisory

BACKGROUND: The land use referrals received for the 3rd Quarter of 2025:

- Received a total of 10 referrals during July 2025 through September 2025
- 2 were approved as submitted
- 7 were subject to comments
- 1 was not recommended

FINANCIAL DATA: N/A

REVIEW BY OTHERS: L. Wiarda, M. Fronapfel

PRESENTERS: Zachary Gabehart

MEMORANDUM

DATE September 30, 2025
TO ACPAA Board Members
FROM Zachary Gabehart-Noise & Environmental Specialist
RE Land Use Review

The following is a list of Land Use Development referrals that have been reviewed by Centennial Airport staff from 7/1/2025 through 9/30/2025:

Date	Previously Referred	Development	Location	Referring Entity	Type	Reco
8/4/2025	☐	Compark Business Campus Metro District, First Amendment	Compark Metro District	City of Lone Tree	C/I	A
8/11/2025	☐	9201 E. Dry Creek Rd. Multifamily	9201 E. Dry Creek Rd.	City of Centennial	R	S
8/14/2025	☐	RidgeGate Water Main Project - Location & Extent	N. of Rueter Hess Reservoir	Douglas County	I	A
8/27/2025	☐	SEMA Site Plan Courtyard Modifications	7353 S. Eagle St.	City of Centennial	C	S
8/29/2025	☐	The Jones District Regulating Plan Major Amendment	Jones District	City of Centennial	C/R	S
9/2/2025	☐	Lone Tree Public Works Facility Plat	10151 First St.	City of Lone Tree	I	S
9/9/2025	☐	The Peaks at Canyonsides Townhomes	Canyonside Blvd. & Canyon Forge Dr.	City of Castle Pines	R	N
9/15/2025	☐	Amendments to Section 15 of the Douglas County Zoning Resolution	Douglas County Zoning Resolution	Douglas County	R	S
9/23/2025	☐	7400 S. Alton Ct. Rezone	7400 S. Alton Ct.	City of Centennial	C/R	S
9/24/2025	☐	Vermilion Creek Correction Plat	Broncos Pkwy. And Parker Rd.	City of Centennial	R	S

Type of Development
R = Residential
C = Commercial
I = Industrial

Recommendation
A = Approved as Submitted
S = Subject to Comment
N = Not Recommended

ACPAA Land Use Referral Recommendations Quarter 3 2025

