

PLEASE NOTE MEETING LOCATION
ALSO, PLEASE NOTE – WE WILL BEGIN WITH TIME FOR THE COMMITTEES TO MEET AT 6:30 P.M., AND
THE REGULAR AGENDA WILL COMMENCE AT 7:00 P.M.

March 6, 2019

AGENDA

6:30 p.m. – 8:30 p.m.

Arapahoe Board Room, 6924 S. Lima, Centennial, 80112

Chair: Brad Pierce **Vice Chair:** Katy Brown **Treasurer:** Jamie Hartig **Secretary:** Alison Biggs
CACNR Mission: Utilizing Partnerships to Reduce Airport Noise for the Benefit of Neighboring Communities

1. CALL TO ORDER AND DETERMINATION OF QUORUM:

Arapahoe County: Kathleen Conti/Thad Bagnato
Jim Dawkins /Vacant
Douglas County: Abe Laydon/Jamie Hartig
Alison Biggs/Mike Acree
ACPAA: Robert Olislagers/Michael Fronapfel
Aurora: Brad Pierce/Liia Koiv-Haus
Castle Pines: Melissa Coudeyras/Ben Price
Castle Rock: Brett Ford/Sandy Vossler
Centennial: Candace Moon/Andrea Suhaka
Cherry Hills Village: Al Blum/Randy Weil

Foxfield: Dave Goddard/Vacant
Greenwood Village: Tom Dougherty/Karen Blilie
Lone Tree: Mike Anderson/Jennifer Drybread
Parker: Amy Holland/Ryan McGee
AOPA: Robert Doubek/John Hirshman
CABA: Don Kuskie/Mike Straka
CDOT Aeronautics Div: Todd Green/Vacant
FAA APA Control Tower: Diana Hanley/Ron Curry
FAA District Office: Linda Bruce/Kandace Krull
FAA TRACON: Steve Martin/Bill Dunn

6:30 pm – 7:00 pm COMMITTEE MEETINGS – COMMUNITY OUTREACH, FLY QUIET, NOISE MONITORS

A. 2019 WORK PROGRAM DRAFT #3

7:00 p.m.

2. APPROVAL OF AGENDA:

3. PUBLIC COMMENT: (non-Agenda items – 3 minutes per person time limit; correspondence from the public)

4. CONSENT AGENDA:

- A. DRAFT MINUTES, December 5, 2018 – Alison Biggs, Secretary
- B. TREASURER'S REPORTS– Jamie Hartig, Treasurer
 - 1. End of Year 2018
 - 2. January 2019
 - 3. February 2019

5. ITEMS REMOVED FROM CONSENT AGENDA

6. COMMITTEE REPORTS:

- A. COMMUNITY OUTREACH – Melissa Coudeyras
- B. FLY QUIET – Don Kuskie Chair
- C. NOISE MONITORS – Bette Todd
 - 1. Noise Report – November 2018
 - 2. Noise Report – December 2018
 - 3. Noise Report – January 2019
- D. WORK PLAN – Alison Biggs, Chair
 - 1. Draft Work Program
- E. STUDY GROUP – Brad Pierce

7. FAA REPORTS:

- A. DISTRICT OFFICE – Linda Bruce
- B. CENTENNIAL AIRPORT AIR TRAFFIC CONTROL TOWER – Diana Hanley
- C. TRACON – Steve Martin

8. OTHER REGULAR REPORTS:

- A. ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY – December 13, 2018 - Robert Doubek & Brad Pierce
– February 14, 2019 – Robert Doubek & Katy Brown
 - 1. December 2018 CACNR Report to ACPAA
- B. AIRPORT DIRECTOR'S REPORT – Robert Olislagers
 - 1. Airport Activity
 - 2. Legislative
 - 3. Other
- C. METROPLEX - (Resource - <http://www.faa.gov/nextgen/communityengagement>)
 - 1. Robert Olislagers Notes from 12/5/18 FAA Meeting
 - 2. Melissa Coudeyras Notes from 12/06/18 FAA Meeting

ALSO, PLEASE NOTE – WE WILL BEGIN WITH TIME FOR THE COMMITTEES TO MEET AT 6:30 P.M., AND THE REGULAR AGENDA WILL COMMENCE AT 7:00 P.M.

- 9. OLD BUSINESS:**

- 10. NEW BUSINESS:**

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

12. NEXT MEETINGS:

- 13. ADJOURN**

Centennial Airport Community Noise Roundtable 2019 – 2020 Work Program

DRAFT #3 – 1/25/19

CACNR MEMBERSHIP

Arapahoe County

Douglas County

City of Aurora

City of Castle Pines

Town of Castle Rock

City of Centennial

City of Cherry Hills Village

Town of Foxfield

City of Greenwood Village

City of Lone Tree

Town of Parker

Aircraft Owners and Pilots Association

Arapahoe County Public Airport Authority

Colorado Aviation Business Association

Colorado Department of Transportation

Aeronautics Division

FAA Centennial Airport Control Tower

FAA District Office

FAA TRACON

The Mission, Vision, and Values of the Centennial Airport Community Noise Roundtable (page 12) are implemented, in part, through the efforts of its committees, as described on the following pages.

COMMUNITY OUTREACH COMMITTEE

Melissa Coudeyras, Chair

Liia Koiv-Haus, Work Plan Committee Liaison

Mike Anderson; Mike Acree; Jennifer Drybread; Brett Ford; Amy Holland; Ryan McGee; Maureen Shul; Sandy Vossler

2019 PRIORITY TASKS:

1. Maintain the CACNR website to update the public about CACNR work and accomplishments. CACNR meeting agendas and minutes will be maintained here. The website will also include articles and information about significant issues related to airport noise that may interest the public.
2. Community Outreach Committee members will work with the airport staff to create press releases when necessary to give to CACNR Representatives to share with their municipalities.
3. Ensure that CACNR Representatives have information that comes to CACNR relating to airport noise, such as Metroplex updates, to share with their municipalities/counties/organizations.
4. Provide committee members to visit Member municipalities and present CACNR updates or answer question about CACNR information when requested.

2019 PRIORITY TASKS IDENTIFIED AT THE 2018 RETREAT:

1. Develop community outreach program.
2. Develop/update community outreach materials (i.e. reports, brochures, pamphlets, social media, etc., and the CACNR website) for a variety of audiences.
3. Share information about the roundtable's work and accomplishments.
4. Develop engagement strategy for working more effectively with city and county governments.
5. Engage local land-use planning authorities to collaborate on Improve transparency of airport influence areas (or Increase availability of information about the airport's influence area) through real-estate disclosure, home-buyer education and outreach, and the use of social media outlets. coordination in local land-use planning and zoning. *(Also see #1 in For Future Consideration in the Work Plan Committee).*

FOR FUTURE CONSIDERATION:

~~1. Provide information regarding the noise hot line to the public.~~

1. CACNR Website

A. Include information that supports public awareness of significant issues including such things as:

- i. aircraft overflight and noise impacts in neighborhoods and future development areas
- ii. the Airport's *((maybe ACPAA would be the better reference here, as that group has the ultimate responsibility for running the airport))* plans and projections for operations and facilities growth

- iii. sound Mitigation techniques in residential construction.
- 2. ~~Continue to update and improve the CACNR website materials and functionality (See Priority Task #2 above):~~
 - 1. ~~Include Fly Quiet information on the CACNR website.~~
 - 2. ~~Include information that supports public awareness of significant issues including:~~
 - i. ~~aircraft overflight and noise impacts in neighborhoods and future development areas,~~
 - ii. ~~the Airport's plans and projections for operations and facilities growth, and~~
 - iii. ~~sound mitigation techniques in residential construction.~~
- 2. Continue to provide opportunities for public comment and input at meetings, as stated in the CACNR Bylaws.
- 3. Coordinate outreach efforts between CACNR and Airport staff.
- 4. Follow up noise complaints with an email or other response that includes a link to the CACNR website.

ONGOING COMMUNITY OUTREACH COMMITTEE ACTIVITIES from PRIOR WORK PROGRAMS:

- 1. Follow up noise complaints with an email or other response that includes a link to the CACNR website.
- 2. Ensure CACNR communications efforts and activities accurately reflect the working relationship between CACNR and the airport.
- 3. Utilize and evaluate established plans for regular communication to/with the public.
- 4. Provide information regarding the noise hot line to the public (On website).
- 5. Continue to update and improve the CACNR website materials and functionality (See Priority Task #2 above).
- 6. Include Fly Quiet information on the CACNR website (On website).

FLY QUIET COMMITTEE

(as reviewed 12/05/2018)

Don Kuskie, Chair

Brad Pierce, Work Plan Committee Liaison

Thad Bagnato; Karen Blilie; Kathleen Conti; Robert Doubek; Dave Goddard; Mike Straka; Bill Wasmund

2019 PRIORITY TASKS IDENTIFIED BY THE COMMITTEE:

1. Have NBAA Noise Abatement Program URL/Link be added to the CACNR website. (Update - Item completed by November 14, 2018.)
 2. Consider putting up signs on the airport entry gates about Airport Noise Abatement Guidelines. This is in line with attempting to inform all Pilots flying out of Centennial Airport. In addition to signs, the plan is to install our posters in the Self-Service fueling facility on TacAir ramp. (Update – Posters have been installed in self service fuel facility on the TacAir ramp by Dylan Heberlein, ACPAA staff – reported December 5, 2018))
 3. Develop a process to continue visiting Flight Schools urging them to add the noise abatement training to their curriculums with a check off box for completion. (Update – Bill Wasmund is tasked with this item and has completed with Aspen in having a sign off box that a student has received noise abatement training. Don Kuskie will work with Independence Aviation – reported December 5, 2018.)
 4. Work with FAA airspace designers to promote the LOOOP departure procedure using the STAPP waypoint on north bound departures to help ease NW turns over noise sensitive areas for all hours of operation. (Update – Don Kuskie is working on the LOOP departure – reported December 5, 2018.)
 5. Continue renewed efforts to incorporate the Whispertrack program into pilots’ i-Pads for a quick reference to learn of the noise guidelines for APA airport as well as many U S airports. (Update – Don Kuskie is working on Whispertrak – reported December 5, 2018.)
 6. Study Night time operations(10pm-6am) and determine if there are problems which could be mediated. (Update – Bob Doubek and Karen Blilie are working on this project and will look at an ANOMS program to gather data, and also a program called TraqPak – reported December 5, 2018.)
 7. Review the noise hotline calls to understand fully how they are processed and resolved. (Update – Thad Bagnato is going to work on looking at Hot Line calls – reported December 5, 2018.)
 8. Develop a “Letter of Commitment,” subscribing to the Centennial Airport Noise Abatement Guidelines by Aircraft Owners, Pilots, Flight Schools, Flying Club Members and Support Personnel and develop incentives for subscribing to such. (Update – Is in discussion by entire committee – reported December 5, 2018.)
 9. Research noise silencing exhausts used on piston aircraft. (Update – item #9 added, December 5, 2018.)
- ~~1- Contact Flying Clubs to determine their commitment to list our noise abatement guidelines as part of their training curriculum. This will also include non club or independent Flight Instructors teaching at Centennial Airport. See #3 above~~
- ~~2- Work with Airport Authority Noise Abatement Department to identify violators of the noise guide lines and follow up that those persons are to be contacted in some form or other such as a letter advising of the matter. Along with this action the committee may help determine what would constitute being contacted by the Noise Abatement personnel.~~

3. ~~Work with the FAA to activate the waypoint STAPP for north departures in preventing aircraft to be routed over a noise sensitive area. See #4 above~~
4. ~~Promoting the use of Whispertrack for Pilots to use as a quick reference to the Centennial Airport Noise Abatement procedures. Contact Whispertrack to learn how their program interacts with the various database programs which Pilots use in their Flight Planning. See #5 above~~
5. ~~Study night time operations and make recommendations for anything which may help in finding solutions to noise complaints. See #6 above~~

2019 PRIORITY TASKS IDENTIFIED AT THE 2018 RETREAT:

1. Develop engagement strategy to increase collaboration with the airport, FAA, aircraft operators, flight schools and flying clubs. See #8 above
2. Explore voluntary restrictions on flight training and nighttime.
3. Establish Letter of Commitment to encourage awareness and participation in Fly Quiet Program. See #8 above
4. Explore improvements in noise abatement procedures for both fixed-wing and helicopter operations.

FOR FUTURE CONSIDERATION:

1. Monitor and evaluate the effectiveness of helicopter routes with the noise monitoring equipment.
2. Work with helicopter operators to utilize established routes, including to and from fueling stations and to encourage climbs and descents on Airport property when possible.
3. Develop a program to effectively reach pilots not based at Centennial Airport for fly quiet information (potentially to include such items as Whispertrack).
4. Develop and implement incentives for voluntary use of Fly Quiet Procedures.
5. Require noise abatement as a mandatory part of training at Centennial Airport.
6. Reduce night-time noise events between 10 p.m. and 7 a.m. through *(see Priority Task #5 above)*:
 - A. establishment of a voluntary operations curfew, including night-time training traffic and helicopter operations;
 - B. development of voluntary late-night departure procedures; and
 - C. development of other measures as determined appropriate.
7. Investigate implementation of a night time fee structure, based on weight, if flying between 11 p.m. and 7 a.m. *(see Priority Task #5 above)*.
8. Consider investigation of other locations for training over less populated areas and encourage their use. This can be explored with Flight Schools.
9. Develop a “letter of commitment” to use Fly Quiet Procedures and seek its approval and implementation by based-aircraft owners, pilots, flight schools, flying club members, and support personnel.

10. Examine how hotlines are handled at other airports, including what information is being collected and how it is used.
11. Determine what information is desired from hotline calls and assure questions asked will provide that information.

ONGOING FLY QUIET COMMITTEE ACTIVITIES from PRIOR WORK PROGRAMS:

1. Identify noisy general aviation types. Work with operators of these aircraft with targeted noise abatement education campaign. (*see Priority Task #2 above*).
2. Investigate specific causes and times of late-night aircraft noise (*see Priority Task #6 above*).

NOISE MONITOR COMMITTEE

Bette Todd, Chair

Jamie Hartig, Work Plan Committee Liaison

Jim Dawkins; Tom Dougherty; Dave Goddard; John Hirshman; Candace Moon; Andrea Suhaka; Randy Weil

2019 PRIORITY TASKS IDENTIFIED BY THE COMMITTEE:

1. Request airport briefing describing the airport noise monitoring, operations system, and noise complaint process including the data that is available through the system and reporting capabilities.
2. Identify potential data sources for expanded reporting and community engagement.
3. Monitor status of RNAV development in the region. Work with airport staff and FAA to understand proposed Metroplex routes and their potential impacts to the community.
4. Develop a methodology to correlate aircraft noise events and complaints to identify relations to specific aircraft operations, overall trends, and appropriate follow-up actions.

To the extent possible, specific correlation objectives should include consideration of:

- type of aircraft operation (VFR, IFR, training, commercial, military, itinerant, touch-and-go, etc.);
- flight tracks (arrival, departure, heading, etc.);
- aircraft altitude;
- aircraft origin/destination (i.e. Centennial versus DIA or other airports);
- location of relevant noise monitor;
- time and recorded noise level associated with aircraft noise event; and
- number of associated noise complaints and their location(s).

This task will include consideration of how to optimally gather and analyze relevant data through existing airport data acquisition and analysis processes as well as the potential acquisition and use of appropriate software programs.

2019 PRIORITY TASKS IDENTIFIED AT THE 2018 RETREAT:

1. Request airport briefing describing the airport noise monitoring and operations system including the data that is available through the system and reporting capabilities.
2. Identify potential data sources for expanded reporting and community engagement.
3. Request airport briefing on noise complaint process.
4. Monitor status of RNAV development in the region. Work with airport staff and FAA to understand proposed Metroplex routes and their potential impacts to the community.

FOR FUTURE CONSIDERATION:

In consultation with the Roundtable and Centennial Airport Noise Office:

1. Develop noise and additional reports on monthly, quarterly, and annual basis for provision to the Roundtable, community, member jurisdictions, and others as appropriate.

Examples of information for possible inclusion in the noise reports: Number of operations; number, percentage and directions of arrivals and departures, and types of flight operations including itinerant, touch and go, helicopter, late night, day time, VFR/IFR; number of operations; noise events at each monitor; and flight track data for subcategories of aircraft, arrivals departures., etc.
2. Determine appropriate criteria for development and presentation of data, information and analysis.
- ~~3. Develop a method to correlate noise complaints as documented by complaint and/or noise monitor data to aircraft operation types [VFR, IFR, itinerant and touch and go], flight tracks, and altitude for reporting to Roundtable and others as appropriate. Identify and account for complaints about Denver International Airport (DIA) traffic versus noise complaints from Centennial traffic as part of this process.~~
- ~~4. Develop criteria for determining which noise events warrant further investigation and analysis.~~
3. Develop a method to determine the impact of north, northwest, south, southwest, and late-night arrivals and departures on neighboring communities for reporting to Roundtable and others as appropriate.
4. Investigate specific causes and times of both daytime and late-night aircraft noise events and report to Roundtable and others as appropriate.
5. Investigate speed and altitude control over the ILS including RNAV procedures for reporting to Roundtable and others as appropriate.
6. Develop flight track maps as needed to demonstrate frequency and location of overflights and which depict residential density and non-residential uses, etc.
7. Identify and establish “gates” (delineated airspace) of interest and collect and correlate data related to flight paths, noise, complaints, altitude, and other characteristics, and report to Roundtable and others as appropriate.
8. Work with the Fly Quiet Committee to develop reports and information to improve the Fly Quiet Program.
9. Analyze helicopter routes and flight tracks and determine percent of compliance, noise complaints, and effectiveness of routes for reporting to Roundtable and others as appropriate.
- ~~10. Develop additional reports as deemed appropriate by the Airport, Roundtable, or Noise Monitor Committee.~~
- ~~11. Evaluate RNAV (aerial navigation) system impacts.~~
- ~~12. Link noise monitor information with a variety of other items of interest, such as:~~
 - ~~A. Tracking the effects of individual occurrences,~~
 - ~~B. determining what level of noise prompts complaints,~~
 - ~~C. relating complaints to the nearest noise monitor,~~
 - ~~D. tracking how many complaints result from each noise event~~
10. Approach aircraft operators whose flights cause frequent complaints, requesting consideration of voluntarily being better neighbors.

11. Look at what information other airports collect and how they use it.
12. Explore what type of computer programs or other resources are available which can correlate noise events at the noise monitors with noise complaints from the related jurisdictions.
13. Explore what type of computer programs or other resources are available which can track if a single aircraft had generated multiple complaints from different locations.
14. Research historical patterns of noise events at each monitor.
15. Determine the feasibility of becoming more proactive in letting citizens know of the availability of the portable noise monitors, particularly in areas when there has been an increase in complaints.
16. Consider doing some type of follow-up with those who have previously had a portable monitor at their locations.

Work Plan Committee

Alison Biggs, Chair

Jamie Hartig; Liia Koiv-Haus; Robert Olislagers; Brad Pierce

2019 PRIORITY TASKS IDENTIFIED BY THE COMMITTEE:

1. Establish training program for roundtable representatives and key stakeholders.
2. Develop an updated strategic plan (work program) based on priorities identified during the retreat.
3. Prepare 2017 & 2018 Annual Reports.

2019 PRIORITY TASKS IDENTIFIED AT THE 2018 RETREAT:

1. Establish training program for roundtable representatives and key stakeholders.
2. Develop an updated strategic plan (work program) based on priorities identified during the retreat.
3. Finalize the memorandum of understanding.

FOR FUTURE CONSIDERATION:

1. Monitor the timing and need for creation of a Land Use Committee (10-a) to include evaluation of *(Also see Priority Tasks 4 & 5 in Community Outreach Committee)*:
 - A. Potential role in supporting Airport land use referral recommendations regarding noise compatibility,
 - B. Potential engagement with local jurisdictions to address compatibility between Airport operations and land use through updates to master plans and relevant land use regulations.

ONGOING WORK PLAN COMMITTEE ACTIVITIES FROM PRIOR WORK PROGRAMS:

1. Monitor and obtain updates on action items formerly shown under Strategic Planning Policy, CACNR and Land Use Committees, as described below, for significant change in circumstances that affect the Roundtable's adopted Mission and require consideration by the Roundtable:
 - A. Monitor implementation of CFR Part 150 planning process by Airport staff, inclusive of the following steps:
 - i. Development of updated CFR Part 150 Noise Compatibility Plan,
 - ii. Updating of noise contour lines,
 - iii. Studying of existing aircraft operational information,
 - iv. Continuing work on noise compatibility,
 - v. Review and evaluation of what Aircraft Operating Restrictions might accomplish (14 Code of Federal Regulations, Part 161),
 - vi. Updating of the Airport's zone of influence.

- B. Monitor progress on the designation and use of alternate arrival, departure, and training routes including:
 - i. Workable flight tracks away from residential communities, inclusive of RNAV Alternative 2 (LOOOP SID), which will be modeled for Federal Aviation Administration (FAA) approval,
 - ii. Preferential departure/arrival routes established through the Part 150 update,
 - iii. Collaboration with the Airport, Air Traffic Control (ATC), and pilot groups.
 3. Monitor Federal legislation in cooperation with N.O.I.S.E, inclusive of the law which prohibits scheduled passenger service at airports having more than 300,000 operations per year (0-Seat Law) and provide feedback.
 4. Monitor implementation of CFR Part 150 planning process by Airport staff, including creation of future noise exposure maps.
 5. Annually review and revise the Work Program as stated in the CACNR bylaws.
 6. Work with other Committees on implementation of the Work Program as needed.
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STUDY GROUP

Brad Pierce, Chair

Alison Biggs; Katy Brown; Andrea Suhaka

Priority Task from Retreat

1. Finalize the Memorandum of Understanding
-

ONGOING CACNR ACTIVITIES

1. Continue the Community Noise Roundtable.
2. Keep CACNR up to date with State and Federal legislation and current events which affect the airport, airport users, and residents.
3. Utilize CACNR Bylaws, Mission, Vision, and Values in relation to/fulfillment of the responsibilities of the CACNR Officers, Members and Members' Representatives and Alternate Representatives.
4. Continue to engage with the Airport Authority Board through presentations at Board meetings, personal contact, and tracking of their activities, and improve effectiveness of communications with the Board.
5. Develop a method for providing effective input to the Board on its agenda topics which affect the mission and work of CACNR.
6. Become acquainted with Board members and familiar with Board protocols and activities.

VISION: Quieter Skies for Our Communities

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

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

RESPECT

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

ETHICS

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

COMMITMENT TO

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

ACCOUNTABILITY

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

INNOVATION

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

December 05, 2018

DRAFT

VISION – QUIETER SKIES FOR OUR COMMUNITIES

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

Chair: Brad Pierce **Vice Chair:** Katy Brown **Treasurer:** Jamie Hartig **Secretary:** Alison Biggs

1. **CALL TO ORDER, ROLL CALL, and QUORUM:** The meeting was called to order at 6:35 p.m. by Chair Brad Pierce.

The following were in attendance:

Arapahoe County:	Thad Bagnato	Lone Tree:	Mike Anderson
Douglas County:	Alison Biggs	Parker:	Amy Holland
Aurora:	Brad Pierce	ACPAA:	Mike Fronapfel
Castle Pines:	Melissa Coudeyras	AOPA:	Robert Doubek
Centennial:	Candace Moon	CABA:	Don Kuskie
Greenwood Village:	Karen Blilie		

Also, in attendance were Centennial Alternate Representative Andrea Suhaka; Fly Quiet Committee Member Bill Wasmund; and ACPAA Staff Dylan Heberlein.

Those absent were:

Arapahoe County:	Jim Dawkins/vacant	CDOT Aeronautics Division:	Todd Green/vacant
Douglas County:	Vacant/Jamie Hartig	APA Control Tower:	Diana Hanley/Ron Curry
Castle Rock:	Brett Ford/Sandy Vossler	FAA District Office:	Linda Bruce/Kandace Krull
Cherry Hills Village:	Katy Brown/Randy Weil	TRACON:	Steve Martin/Bill Dunn
Foxfield:	Dave Goddard/vacant		

Following the call to order and the roll call, the meeting was recessed so that the committees could meet. The meeting was reconvened at 7:01 p.m.

2. **APPROVAL OF THE AGENDA:** On the motion of Alison Biggs, duly seconded, the agenda was approved.
3. **PUBLIC COMMENT:** None.
4. **CONSENT AGENDA:** The Consent Agenda included the November 14, 2018 Draft Minutes, and a Treasurer's Report as of November 30, 2018, which continued to show a balance of \$3,351.38. On the motion of Amy Holland, duly seconded, the Consent Agenda was approved.
5. **ITEM(S) REMOVED FROM CONSENT AGENDA:** None.
6. **COMMITTEE REPORTS:**
A. **COMMUNITY OUTREACH** – Melissa Coudeyras reported on the meeting of the committee from earlier in the evening. The committee's recommended changes would be provided to the Work Plan Committee. The committee did prefer to retain its historic name.

B. **FLY QUIET** – Don Kuskie reported the committee was continuing its work and provided an update on the various ideas included in its priorities. An additional priority, to research noise silencing exhausts used on piston aircraft, had been added to the committee's list. He indicated additional noise abatement posters had been distributed and were up, including posters at one self-service fueling station. Any other suggested changes in the draft Work Program would be provided to the Work Plan Committee.

It was reported the Noise Abatement Guidelines and poster had been placed at TAC Air.

C. **NOISE MONITORS** – As the only member of this committee in attendance, Candace Moon reported it had earlier determined it would prefer to retain its historic name as well. Revisions made to the original draft Work Program had been included in Draft #2 provided for this meeting.

The November Noise Report was not yet available.

A handout was provided which showed aircraft noise events as recorded at each noise monitor (monitors 1 & 4 were omitted because of their locations on airport property) for the years 2015, 2016, and 2017. The percentage of change from each prior year was also included. The figures for the monitor in Lone Tree were not totally accurate because that monitor had been down for varying periods of time. It was agreed this information should be placed on the CACNR website, and Heberlein would get it to Coudeyras accordingly.

D. **WORK PLAN** – The committee was appreciative of the input obtained from the committee meetings held at the beginning of this meeting. Following discussion, it was agreed the committees should continue their work on the items in the draft during the interim before the February meeting. Another draft of the overall document would be provided in February, and if it met with approval, the 2019 Work Program could be adopted at that time.

Following a brief discussion, it was determined having time set aside for the committees to meet at the beginning of each overall CACNR meeting should be continued.

E. **STUDY GROUP** – Brad Pierce reported the MOU and its Funding Structure document had been approved by 9 Regular Members and could be considered operable. Other Members continued their review for signature according to their individual meeting schedules. Invoices would be going out soon. The members of the Study Group remained available to provide additional information or attend any meetings upon request.

7. **FAA REPORTS:**

A. **DISTRICT OFFICE** – None

B. **APA AIR TRAFFIC CONTROL TOWER** – None

C. **TRACON** – None

8. **OTHER REGULAR MONTHLY REPORTS:**

A. **ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY** – Robert Doubek, ACPAA Chair, had no new report, as ACPAA had not met since the last CACNR meeting.

B. **AIRPORT DIRECTOR'S REPORT** – In the Airport Director's absence, Mike Fronapfel reported that lawmakers would have limited time to meet an important deadline on federal spending. The current funding stopgap would expire on December 7, meaning lawmakers would need to finalize the remaining FY 2019 appropriations bills or pass another extension by the end of this week, as of this meeting. It would be difficult to predict how the standoff would end and there was a chance there could be a partial government shutdown by December 21, just in time for the holidays. Federal agencies covered by the five FY 2019 appropriations bills the president had already signed would not be impacted but the DOT and FAA funding all would hang in the balance, as would the DHS, TSA and CBP budgets.

C. **METROPLEX** – It was noted the FAA had, on December 4, 2018 at 11:37 a.m., cancelled the Metroplex Elected Official Information Meeting at Centennial Airport scheduled for 6:30 p.m. that evening, because "The FAA has been notified that the media has been invite to attend without concurrence of the FAA. This was not intended to be a public meeting and does not fit within the current intended environment for open and candid discussion with elected officials about the needs of their constituents." Anyone who would be able to attend any other meeting was asked to share the information provided.

D. **NEXTGEN ADVISORY COMMITTEE (NAC)** – Brad Pierce indicated the next NAC meeting would be February 13, 2019.

E. **N.O.I.S.E.** – Brad Pierce indicated the next N.O.I.S.E. meeting would be March 11, 2019.

9. **OLD BUSINESS:**

A. **2019 CACNR MEETING DATES AND LOCATIONS** – A listing of CACNR meeting dates had been provided, and it was agreed to shift the July meeting date to July 10. On the motion of Melissa Coudeyras, duly seconded, action was taken to utilize the location of tonight's meeting – the Arapahoe Board Room, 6924 S. Lima, Centennial 80112 – for all 2019 CACNR meetings.

B. **2019 CACNR REPRESENTATIVES TO ACPAA** – Katy Brown had reported she would not be able to attend the December 2018 ACPAA meeting as previously scheduled. Alison Biggs agreed to write the CACNR report for that meeting, and others agreed to see if anyone could clear their schedule to attend the meeting. Melissa Coudeyras indicated she could attend the February 2019 ACPAA meeting for CACNR; the remainder of the year's meetings would be on the February 2019 CACNR agenda.

C. **CONGRESSIONAL QUIET SKIES CAUCUS** – This topic was put on hold temporarily.

10. **NEW BUSINESS:**

A. **INFORMATION SHARING** – Don Kuskie reported CABA had acknowledged the CACNR MOU, as an Advisory Member, and the signed documents would be provided to Brad Pierce accordingly.

11. **PUBLIC COMMENT:** None

12. NEXT MEETINGS:

A. CACNR – Jan 02, 2019 No Meeting

Feb 06, 2019 6:30 p.m. Arapahoe Board Room, 6924 S. Lima, Centennial 80112
Mar 06, 2019 6:30 p.m. Arapahoe Board Room, 6924 S. Lima, Centennial 80112
Apr 03, 2019 6:30 p.m. Arapahoe Board Room, 6924 S. Lima, Centennial 80112
May 09, 2019 6:30 p.m. Arapahoe Board Room, 6924 S. Lima, Centennial 80112
June 05, 2019 6:30 p.m. Arapahoe Board Room, 6924 S. Lima, Centennial 80112

B. ACPAA – Feb 14, 2019 3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S Peoria St, Englewood, CO
(Katy Brown representing CACNR)

Mar 14, 2019 3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S Peoria St, Englewood, CO
(?? representing CACNR)

Apr 11, 2019 3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S Peoria St, Englewood, CO
(?? representing CACNR)

May 09, 2019 3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S Peoria St, Englewood, CO
(?? representing CACNR)

June 20, 2019 3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S Peoria St, Englewood, CO
(?? representing CACNR)

13. ADJOURNMENT: The meeting was adjourned at 7:53 p.m.

Alison Biggs, Secretary

**Centennial Airport Community Noise Roundtable
Treasurer's Report as of December 31, 2018**

2018 CACNR Budget	\$10,000.00	
GoDaddy Domain Backorder		\$24.98
B.P. UC Davis Expenses		\$1,535.77
M.C. UC Davis Expenses		\$1,087.87
N.O.I.S.E 2018 Membership		\$1,000.00
A.B. 2018 Retreat Expenses		\$20.00
B.P. 2018 Retreat Expenses		\$80.00
Retreat, Misc. Consulting		\$2,900.00
		\$6,648.62
Remainder		<u>\$3,351.38</u>

Centennial Airport Community Noise Roundtable
Treasurer's Report as of February 4, 2019

	MOU Contributions	Expenses
ACPAA	\$10,000.00	
Town of Foxfield	\$250.00	
Cherry Hills Village	\$1,000.00	
Greenwood Village	\$1,000.00	
City of Castle Pines	\$1,000.00	
B.P. UC Davis Expenses (pre-conference)		
M.C. UC Davis Expenses (pre-conference)		
		\$0.00
Remainder		<u>\$13,250.00</u>

**Centennial Airport Community Noise Roundtable
Treasurer's Report as of March 1, 2019**

MOU Contributions		Expenses	
ACPAA	\$10,000.00	B.P. UC Davis Expenses (pre-conference)	\$280.00
Town of Foxfield	\$250.00	M.C. UC Davis Expenses (pre-conference)	\$280.00
Cherry Hills Village	\$1,000.00	Go Daddy 3 year Domain Renewal	\$54.51
Greenwood Village	\$1,000.00	2019 N.O.I.S.E Membership	\$1,000.00
City of Castle Pines	\$1,000.00		
Total Contributions		Total Expenses	
	<u>\$13,250.00</u>		<u>\$1,614.51</u>
Remainder	\$11,635.49		

2018 CACNR COMMITTEE APPOINTMENTS

Appointments Made December 6, 2017

Updated 01/08/19

COMMUNITY OUTREACH:

Melissa Coudeyras, Chair	Liia Koiv-Haus, Work Plan Committee Liaison
Mike Anderson	
Mike Acree	
Jennifer Drybread	
Brett Ford	
Amy Holland	
Ryan McGee	
Maureen Shul	
Sandy Vossler	

FLY QUIET:

Don Kuskie, Chair	Brad Pierce, Work Plan Committee Liaison
Thad Bagnato	
Karen Blilie	
Kathleen Conti	
Robert Doubek	
Dave Goddard	
Mike Straka	
Bill Wasmund	

NOISE MONITORS:

Bette Todd, Chair	Jamie Hartig, Work Plan Committee Liaison
Jim Dawkins	Dylan Heberlein, ACPAA Staff
Tom Dougherty	
Dave Goddard	
John Hirshman	
Candace Moon	
Andrea Suhaka	
Randy Weil	

WORK PLAN:

Alison Biggs, Chair
Liia Koiv-Haus/Karen Hancock
Jamie Hartig
Robert Olislagers
Brad Pierce

STUDY GROUP:

Brad Pierce, Chair
Alison Biggs
Katy Brown
Andrea Suhaka



MONTHLY | **November 2018** Noise Report



Centennial Airport
Arapahoe County Public Airport Authority

1 TABLE OF CONTENTS

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3	About APA's Noise Monitoring Program	3
4	About WebTrak™	4
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6	Noise Monitor Reports.....	6
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9	Radar Track Density Map.....	12
10	Notes and Disclaimer	13

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.

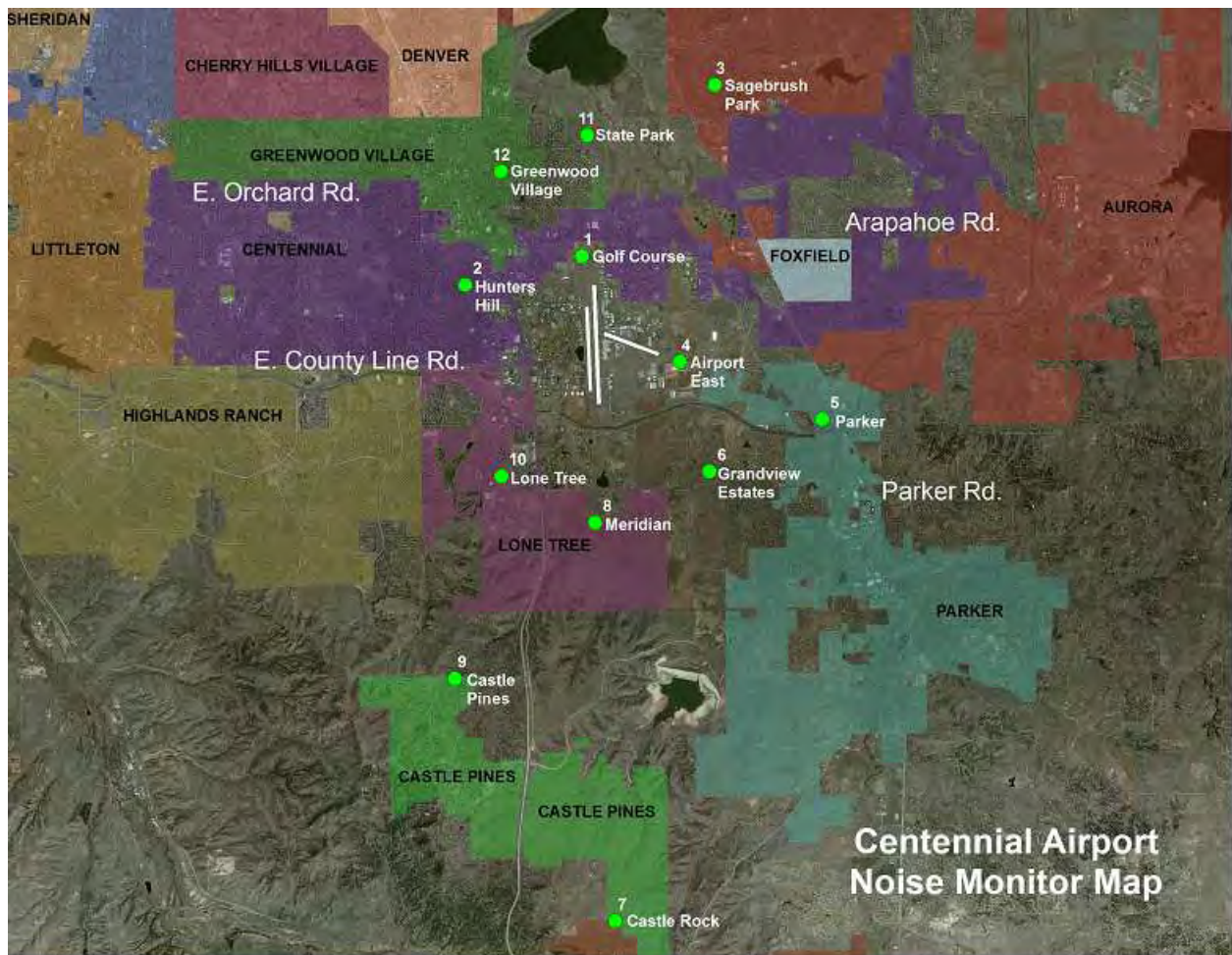
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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.

Overview

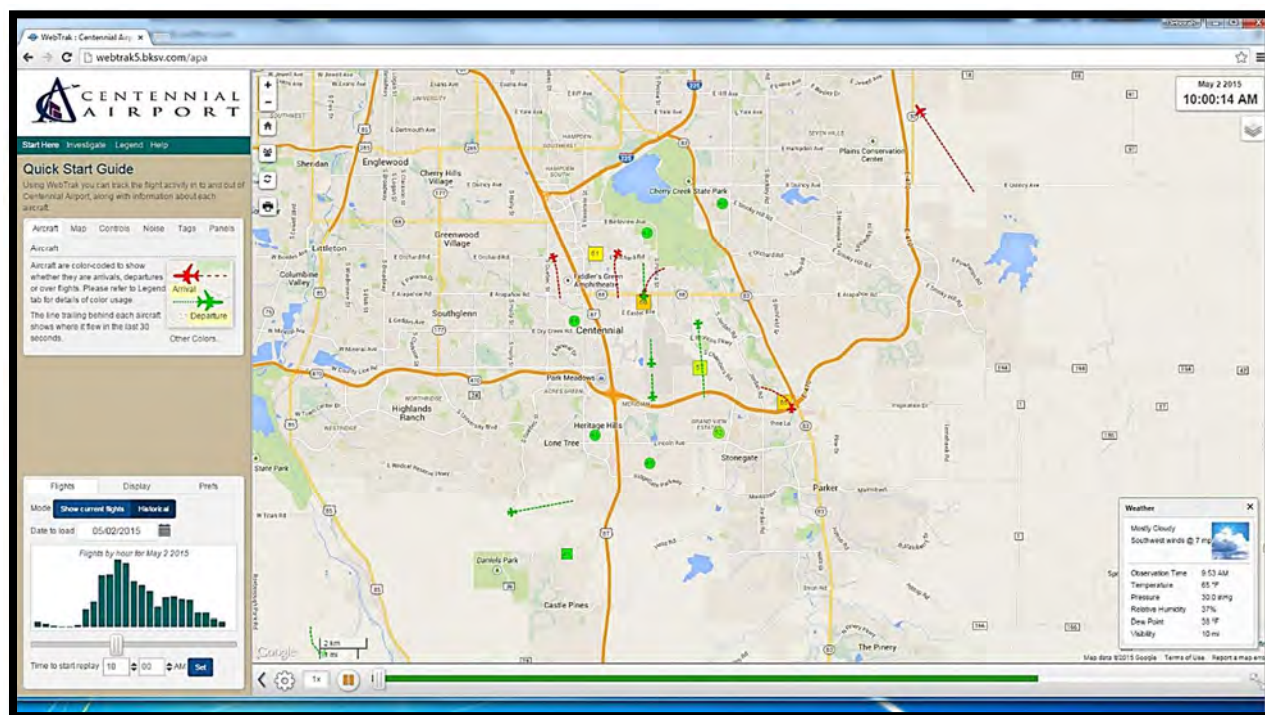
3 ABOUT APA'S NOISE MONITORING PROGRAM

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



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



How to participate

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

APA WebTrak: <http://webtrak.bksv.com/apa>

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

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

APA Noise Hotline:
303-790-4709

5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR ININERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,019	3,495	116	5,630	377	7,912	98	8,387	13,616	77	13,693
February	1,944	3,142	70	5,156	298	5,231	95	5,624	9,274	62	9,336
March	2,216	3,596	201	6,013	331	6,906	186	7,423	12,219	89	12,308
April	1,967	3,266	140	5,373	366	6,537	186	7,089	11,721	164	11,885
May	2,039	3,446	121	5,606	483	7,989	126	8,598	15,561	93	15,654
June	2,346	3,754	281	6,381	576	8,803	196	9,575	15,267	152	15,419
July	2,162	3,899	223	6,284	729	9,647	163	10,539	16,678	193	16,871
August	2,307	4,251	223	6,781	757	9,661	188	10,606	15,550	147	15,697
September	2,193	3,894	286	6,373	917	9,539	175	10,631	14,783	90	14,873
October	2,276	3,621	171	6,068	569	7,641	116	8,326	12,528	26	12,554
November	2,036	3,344	96	5,476	423	7,151	103	7,677	12,629	181	12,810
December				0				0			0
Y-T-D Totals	23,505	39,708	1,928	65,141	5,826	87,017	1,632	94,475	149,826	1,274	151,100

	IFR OVERFLIGHTS				VFR OVERFLIGHTS					TOTAL OPERATIONS
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL		
January	1	0	6	7	124	257	23	404	January	28,121
February	6	3	7	16	83	177	1	261	February	20,393
March	1	3	7	11	129	195	15	339	March	26,094
April	2	7	2	11	136	414	27	577	April	24,935
May	3	8	4	15	112	340	14	466	May	30,339
June	2	2	4	8	126	389	19	534	June	31,917
July	3	7	9	19	65	396	21	482	July	34,195
August	2	7	5	14	93	371	5	469	August	33,567
September	4	8	5	17	141	294	10	445	September	32,339
October	0	1	5	6	129	194	4	327	October	27,281
November	0	4	4	8	56	218	4	278	November	26,249
December				0				0	December	
Y-T-D Totals	24	50	58	132	1,194	3,245	143	4,582	Y-T-D Totals	315,430

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.

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

6 NOISE MONITOR REPORTS

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

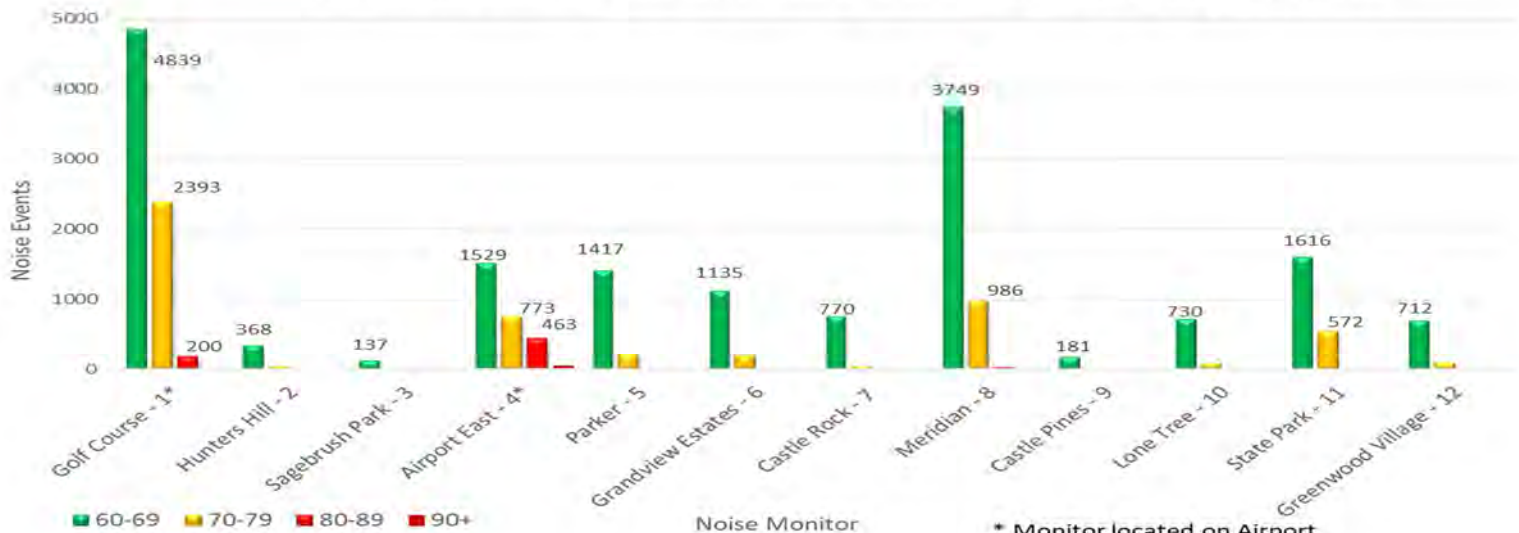
First, the noise event must exceed the ambient noise level. This number varies at every monitor, but is generally greater than 50-55db. Secondly, the noise event must last longer than 5 seconds. Lastly, using radar data, the system must correlate an aircraft with the noise event. This ensures that the sound is not associated with a 'community noise event' such as a lawn mowers or emergency sirens.

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

November 2018 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course - 1*	4839	2393	200	15	7447
Hunters Hill - 2	368	52	2	0	422
Sagebrush Park - 3	137	10	0	0	147
Airport East - 4*	1529	773	463	47	2812
Parker - 5	1417	218	10	0	1645
Grandview Estates - 6	1135	207	9	0	1351
Castle Rock - 7	770	54	1	0	825
Meridian - 8	3749	986	36	5	4776
Castle Pines - 9	181	6	0	1	188
Lone Tree - 10	730	81	0	0	811
State Park - 11	1616	572	8	3	2199
Greenwood Village - 12	712	99	8	0	819
Totals	17183	5451	737	71	23442

*Monitor located on Airport

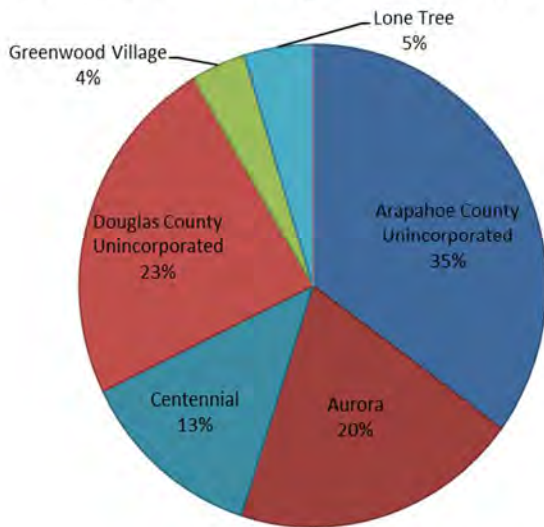
November 2018 Aircraft Noise Event dB Range by Monitor



7 NOVEMBER 2018 NOISE COMPLAINTS

For the month of November, Centennial Airport received 211 complaints from 21 households.

November 2018 Complaints per Municipality



Noise Complaints Response Requested

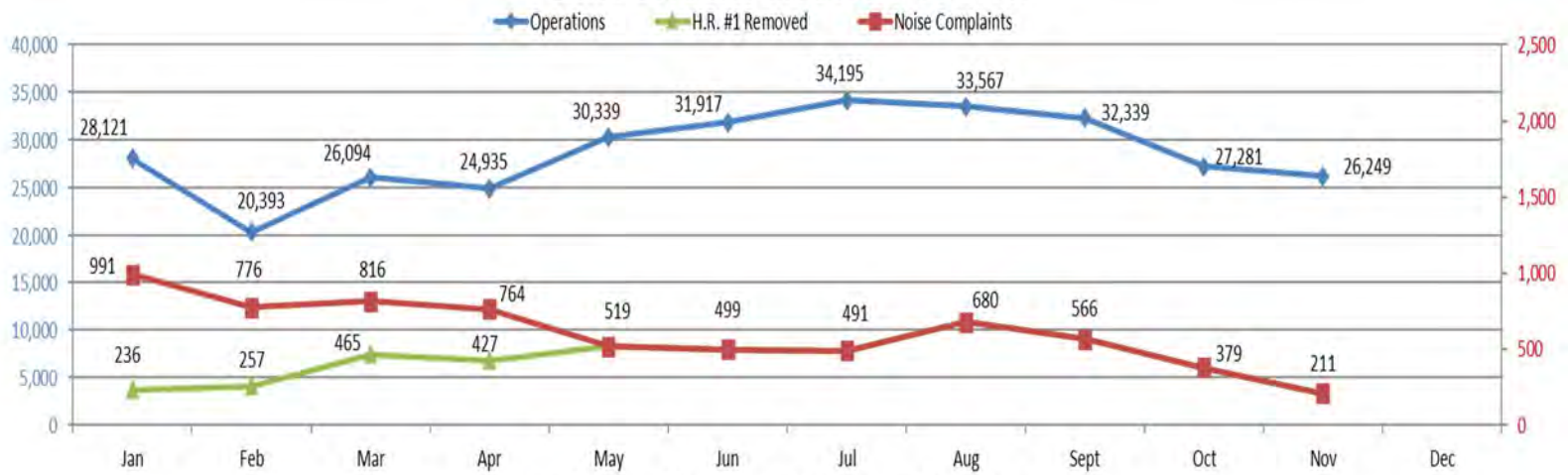
Email	0
Phone	4
Total	4

November 2018 Noise Complaints			YTD	
Municipality	Complaints	Households	Complaints	Households
Arapahoe County Unincorporated	74	8	1518	143
Aurora	42	1	742	11
Castle Pines	0	0	1	1
Castle Rock	0	0	34	4
Centennial	27	1	556	32
Cherry Hills Village	0	0	65	12
Denver	0	0	35	11
Douglas County Unincorporated	50	3	720	39
Greenwood Village	8	4	495	61
Highlands Ranch	0	0	2005	8
Lone Tree	10	4	337	19
Parker	0	0	49	8
Other	0	0	135	13
Total	211	21	6692	362

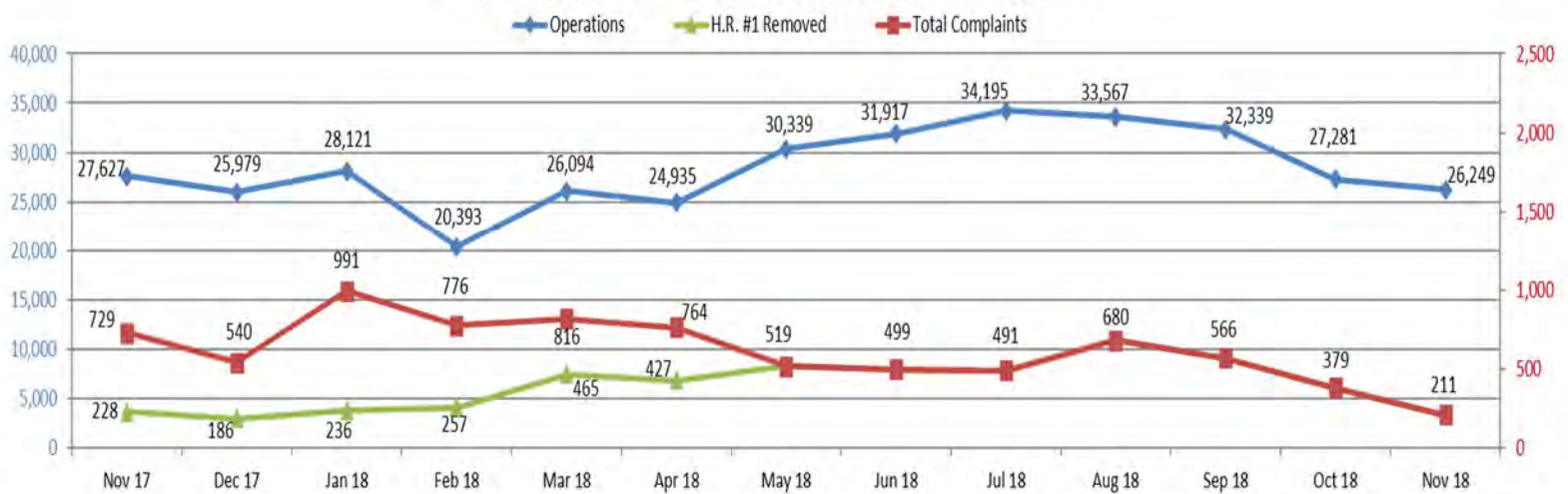
Month Comparison: 2018 Noise Calls - Daytime vs. Nighttime

Time Complaint Received	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	2018 YTD
Day Hours (7:00 am - 9:59pm)	900	683	734	705	420	438	421	577	511	350	186		5926
Night Hours (10:00 pm - 6:59 am)	91	93	82	59	99	61	70	103	55	29	24		766
TOTAL	991	776	816	764	519	499	491	680	566	379	211		6692

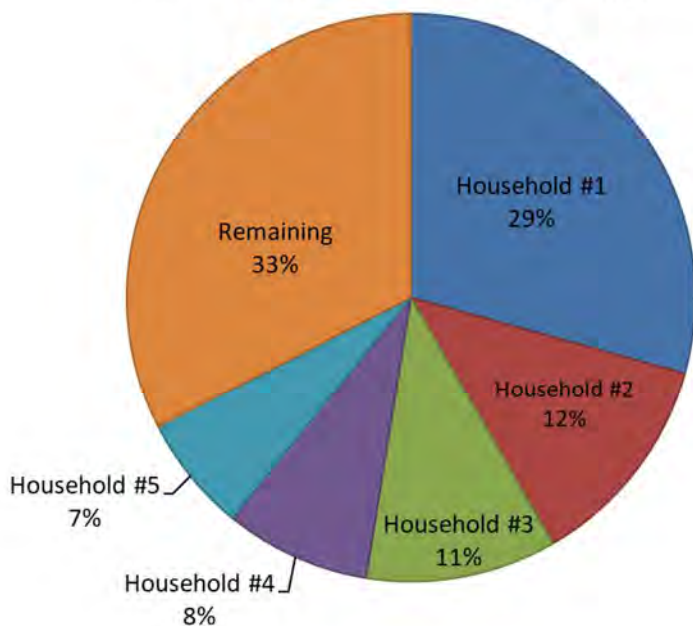
Current 12 Month Trend



Previous Year 13 Month Trend



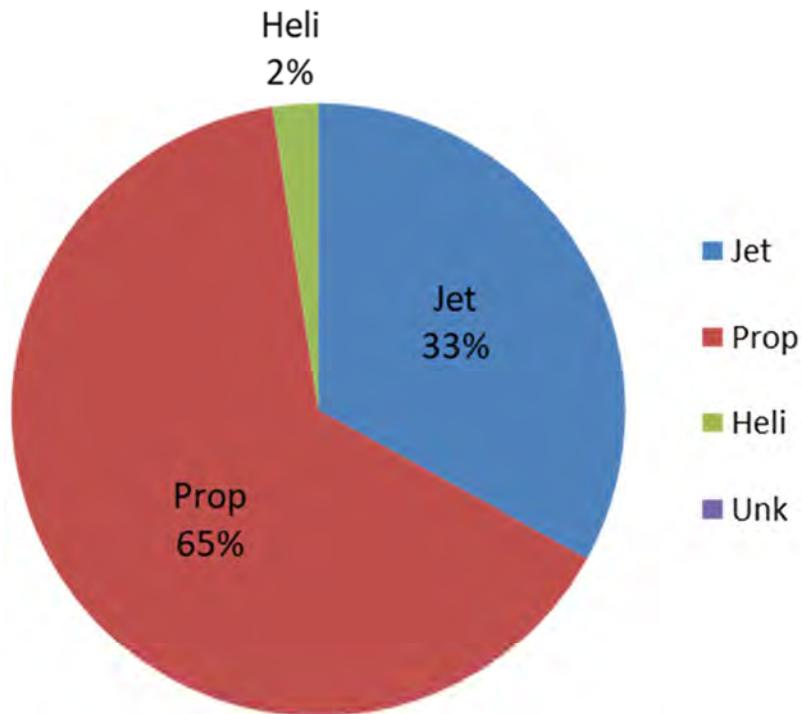
2018 YTD Top 5 Household Complaints



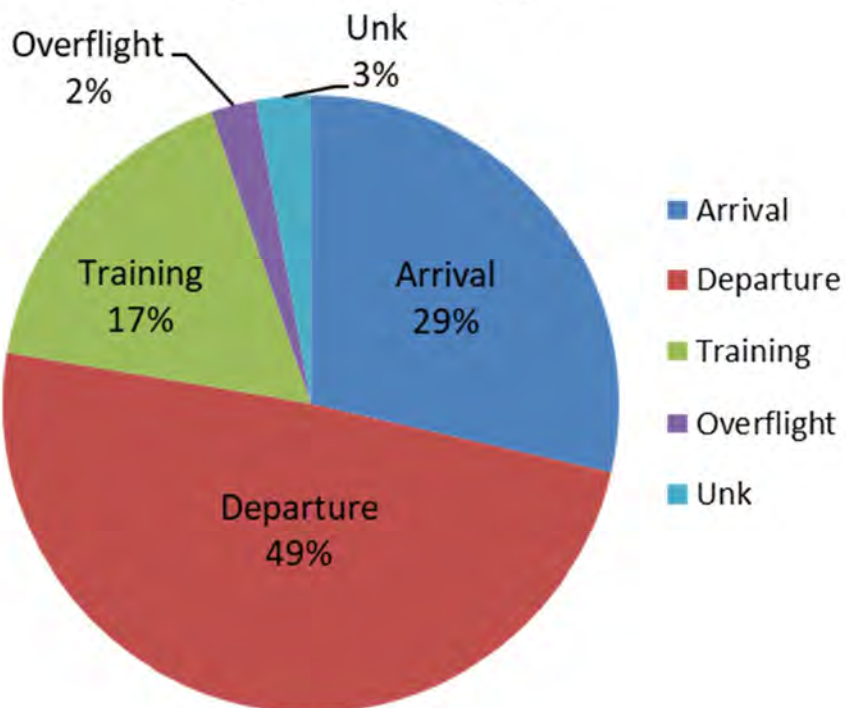
YTD Top 5 Household Complaints

Household	Complaints	Municipality
Household #1	1,962	Highlands Ranch
Household #2	827	Arapahoe County Unincorporated
Household #3	727	Aurora
Household #4	554	Douglas County Unincorporated
Household #5	444	Centennial
Remaining	2,178	
Total	6,692	

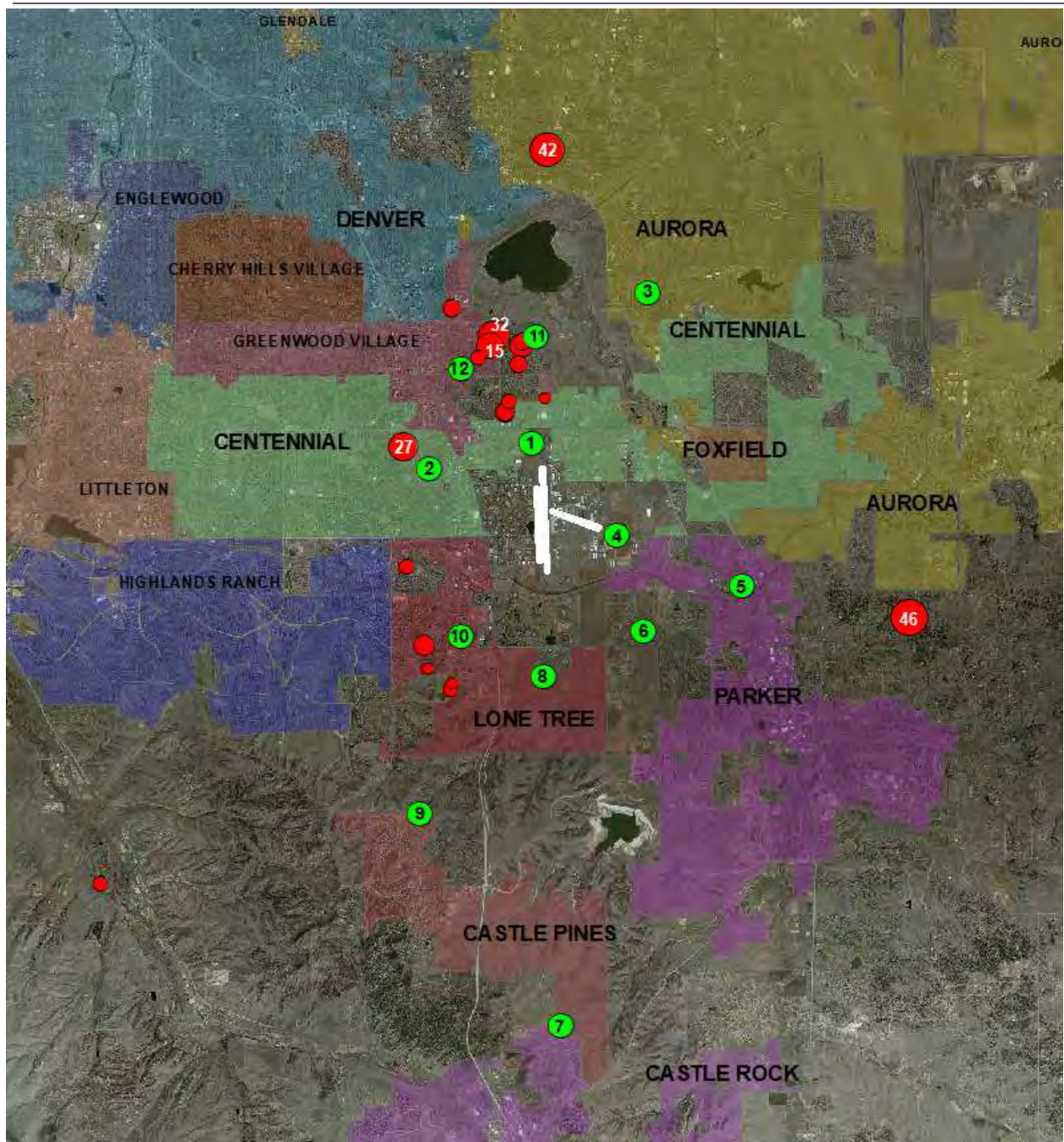
November Complaints by Aircraft Type



November Complaints by Operation Type



8 COMPLAINT MAP



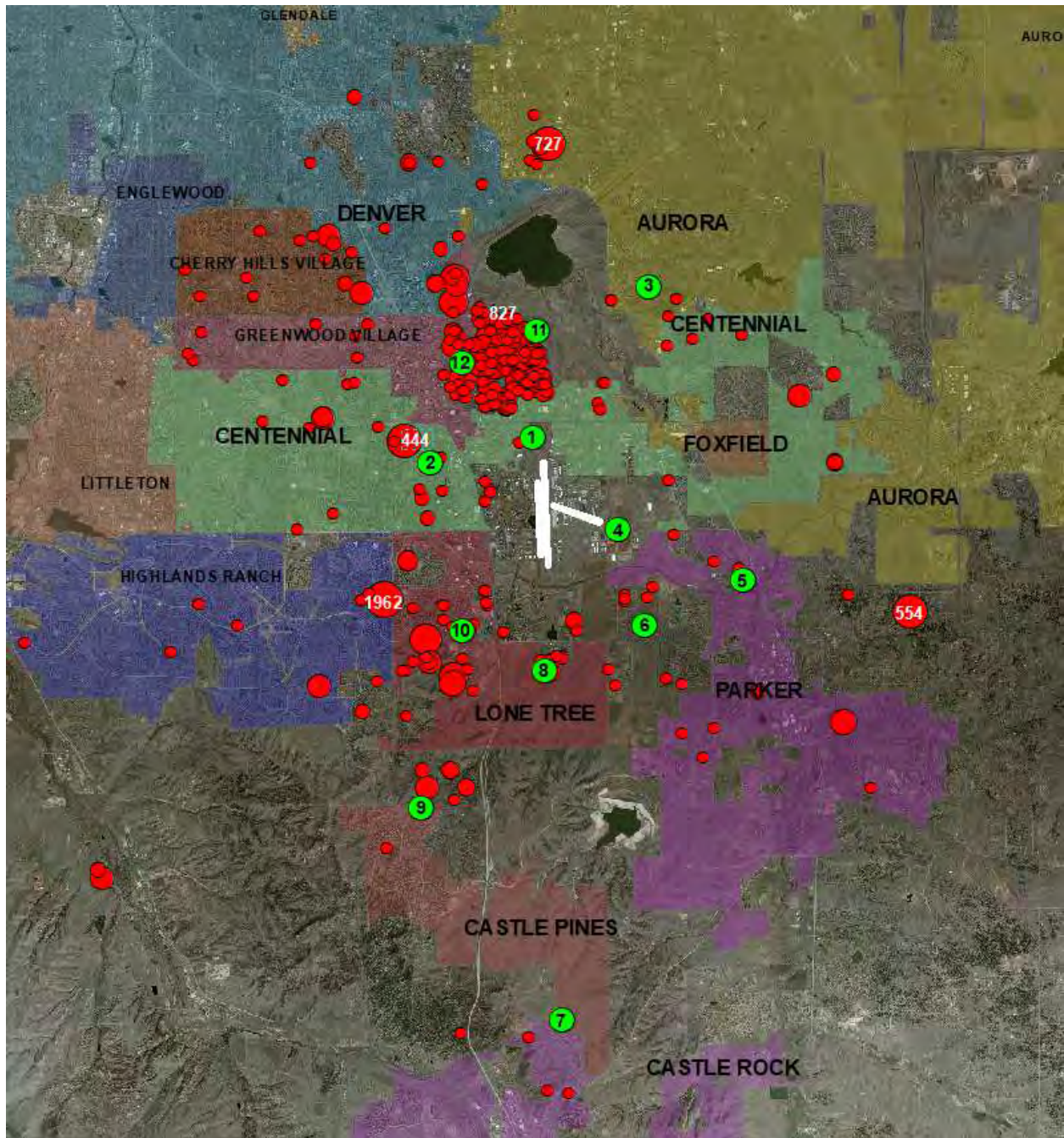
November 2018 Complaints

MAP LEGEND:

Green = Noise Monitor Locations

Red = Household Complaint Locations.

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



YTD 2018 Complaints

MAP LEGEND:

*15 households are located outside the map area

Green = Noise Monitor Locations

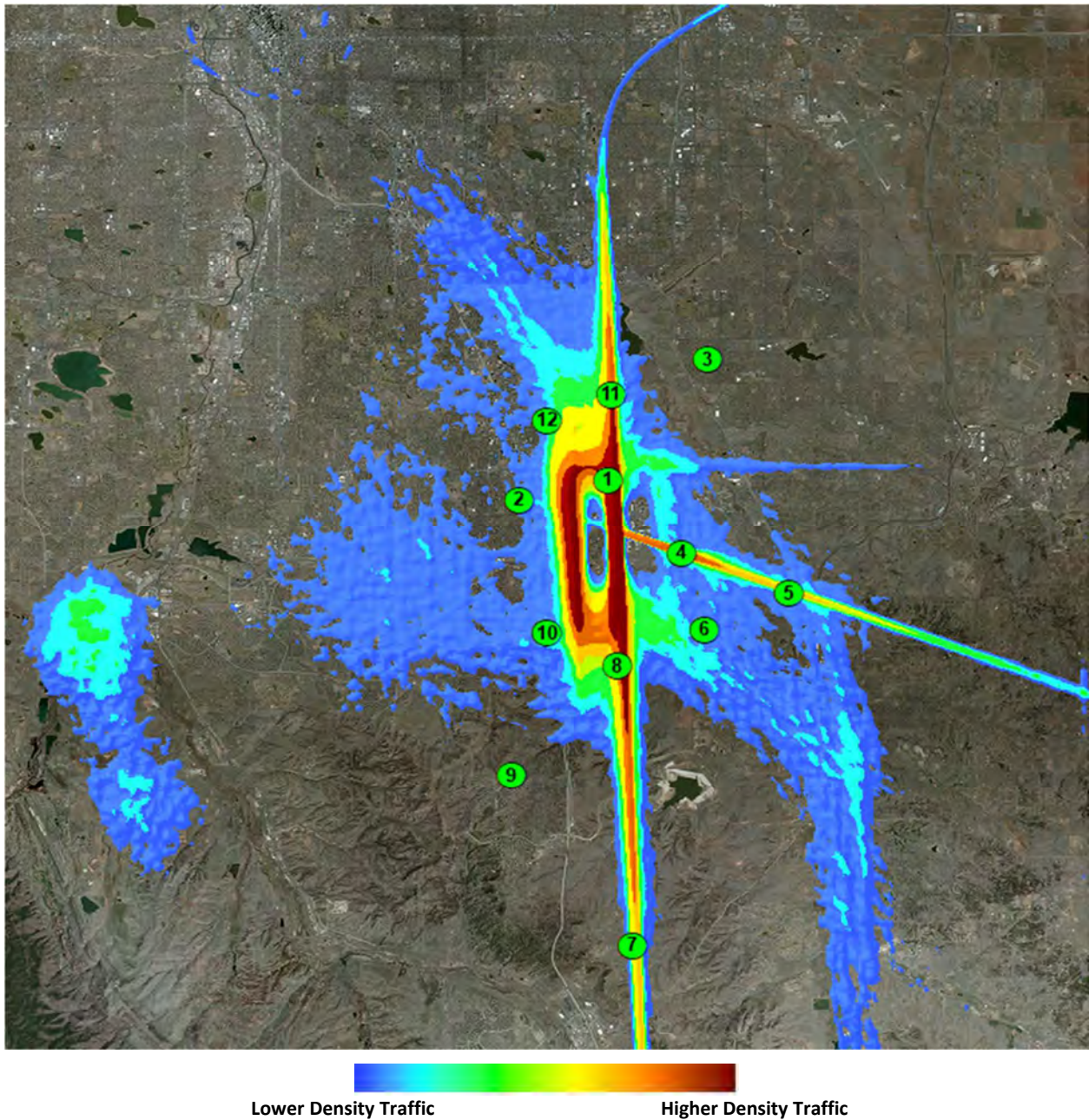
Red = Household Complaint Locations.

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9 RADAR TRACK DENSITY MAP

The following 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.

June 2018 Flight Tracks in/out Centennial Airport



10 NOTES AND DISCLAIMER

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

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



Noise Hotline: 303-790-4709

www.centennialairport.com



MONTHLY
Noise Report

**December 2018 &
Year-End Statistics**



Centennial Airport
Arapahoe County Public Airport Authority

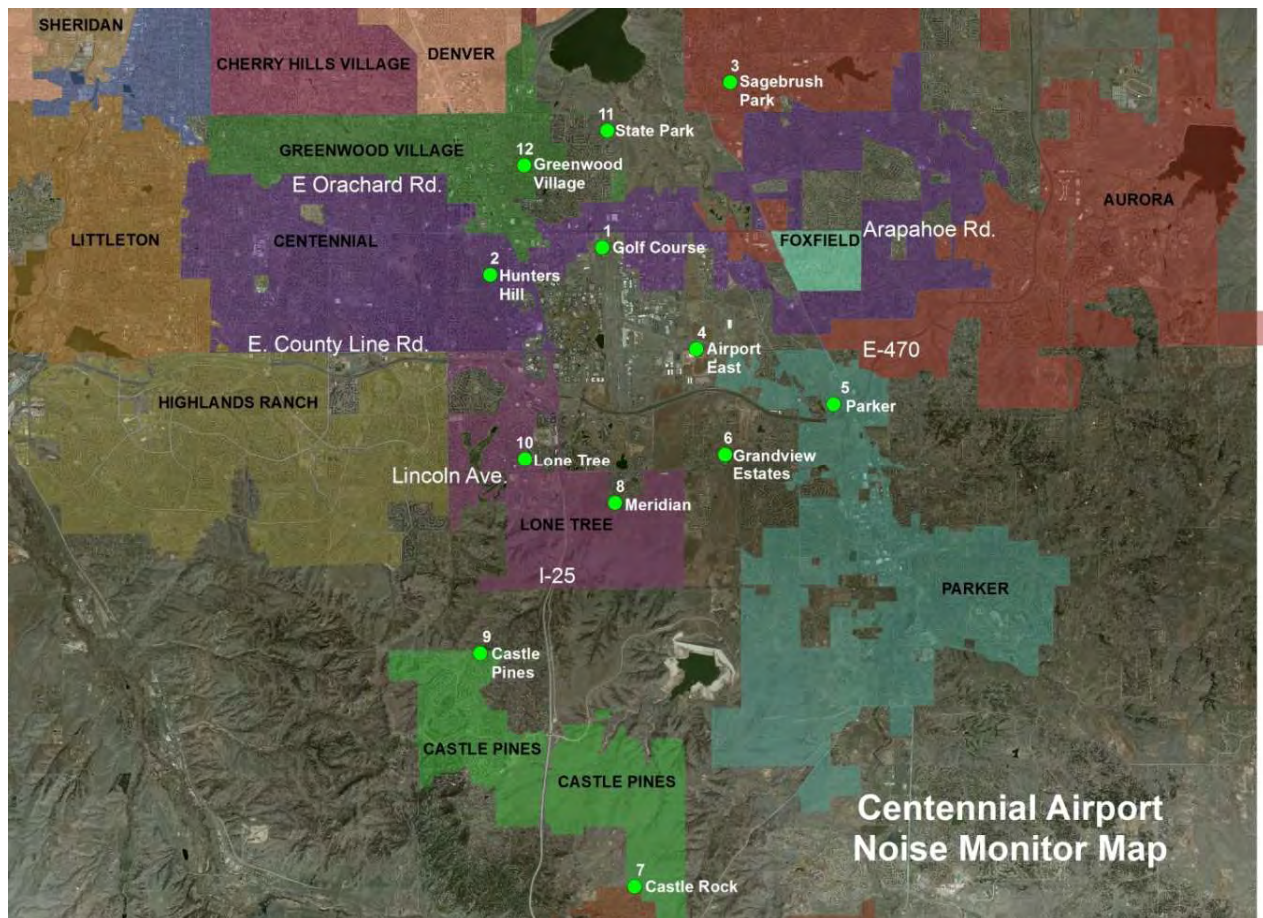
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7	December Complaint Map.....	8
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9	2018 Complaint Map	11
10	Radar Track Density Map.....	12
11	Notes and Disclaimer	13

Overview

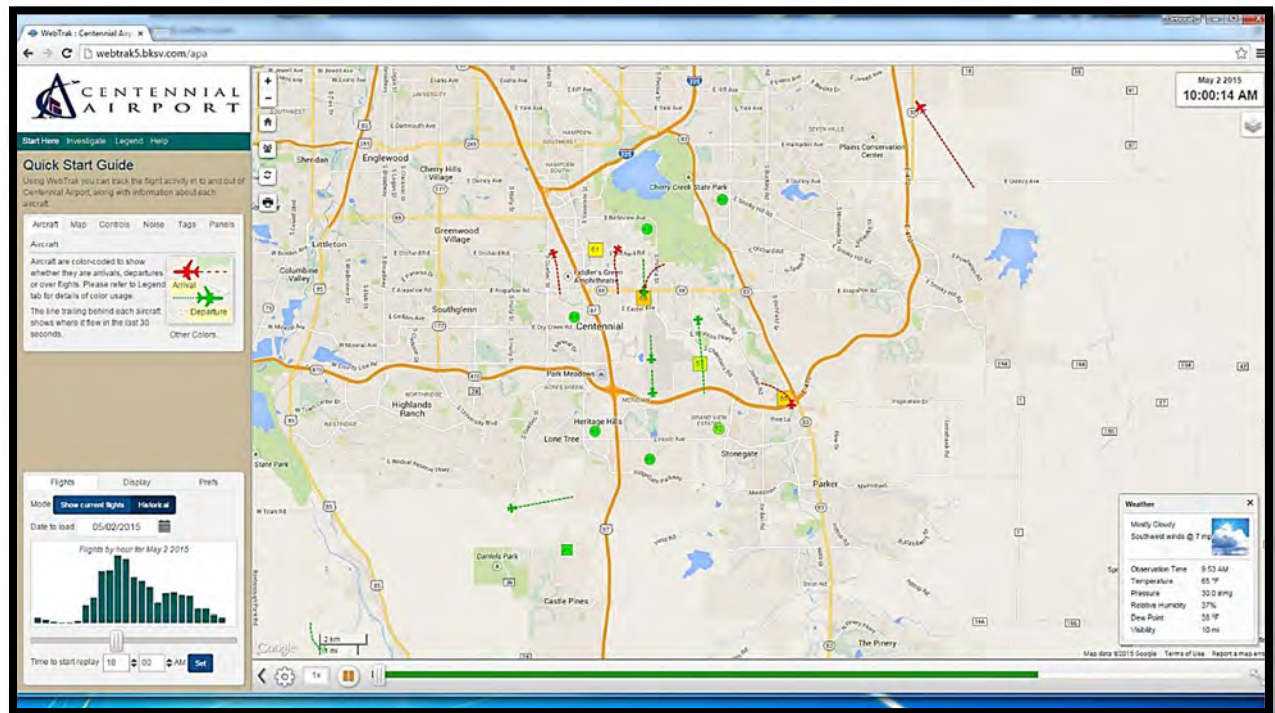
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December	2,199	3,175	162	5,536	600	7,736	114	8,450	13,192	53	13,245
Y-T-D Totals	25,704	42,883	2,090	70,677	6,426	94,753	1,746	102,925	163,018	1,327	164,345

	IFR OVERFLIGHTS				VFR OVERFLIGHTS						TOTAL OPERATIONS
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November	0	4	4	8	56	218	4	278	November		26,249
December	3	13	6	22	92	255	12	359	December		27,612
Y-T-D Totals	27	63	64	154	1,286	3,500	155	4,941	Y-T-D Totals		343,042

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5 NOISE MONITOR REPORTS

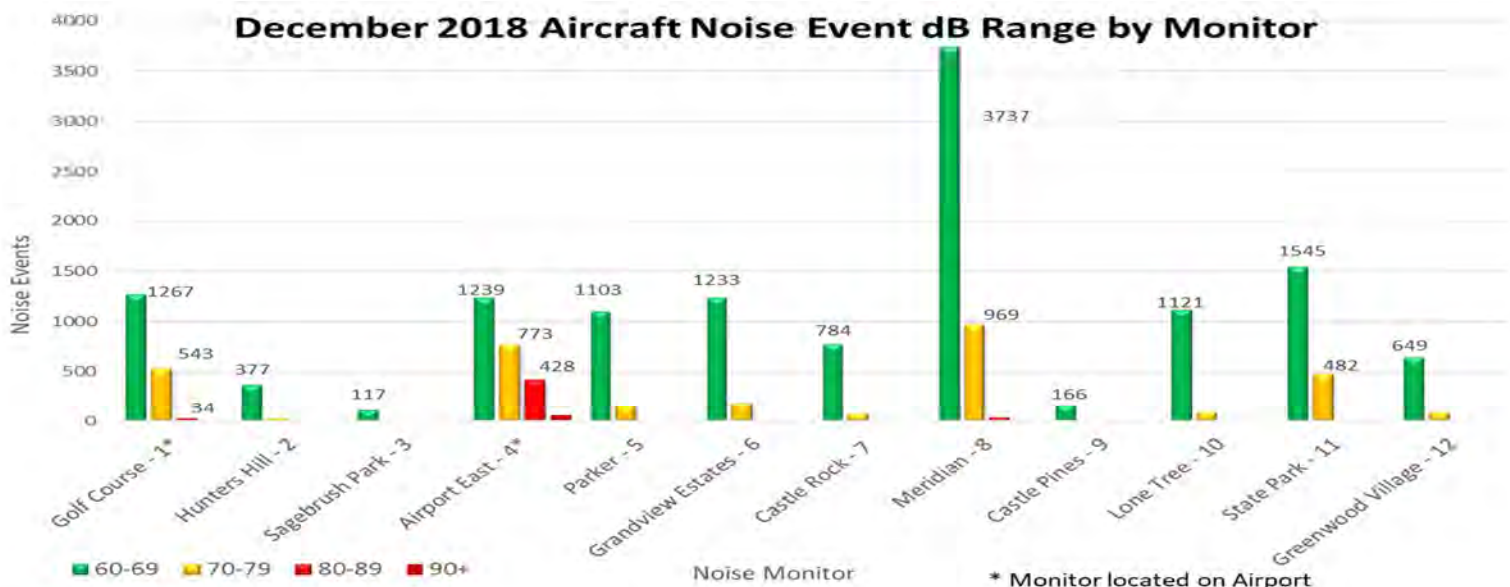
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First, the noise event must exceed the ambient noise level. This number varies at every monitor, but is generally greater than 50-55db. Secondly, the noise event must last longer than 5 seconds. Lastly, using radar data, the system must correlate an aircraft with the noise event. This ensures that the sound is not associated with a 'community noise event' such as a lawn mowers or emergency sirens.

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

December, 2018 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course - 1*	1267	543	34	2	1846
Hunters Hill - 2	377	33	0	0	410
Sagebrush Park - 3	117	12	0	0	129
Airport East - 4*	1239	773	428	56	2496
Parker - 5	1103	163	4	0	1270
Grandview Estates - 6	1233	191	12	2	1438
Castle Rock - 7	784	76	5	0	865
Meridian - 8	3737	969	45	4	4755
Castle Pines - 9	166	6	0	0	172
Lone Tree - 10	1121	89	2	1	1213
State Park - 11	1545	482	13	2	2042
Greenwood Village - 12	649	97	10	0	756
Totals	13338	3434	553	67	17392

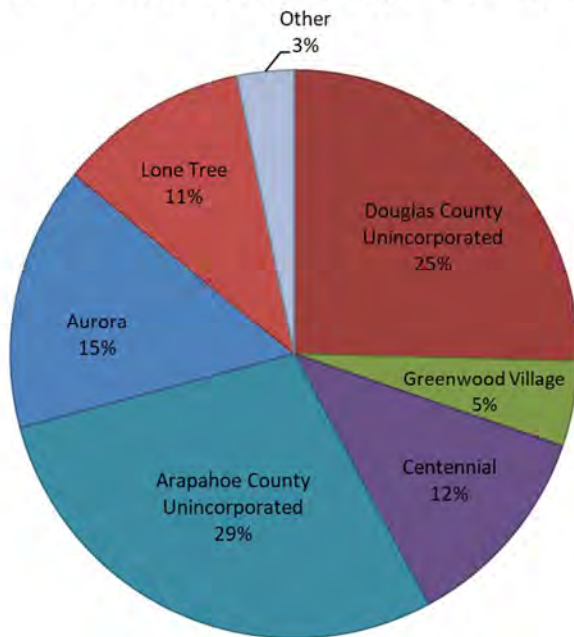
*Monitor located on Airport



6 DECEMBER 2018 NOISE COMPLAINTS

For the month of December, Centennial Airport received 185 Complaints from 22 Households.

December 2018 Complaints per Municipality

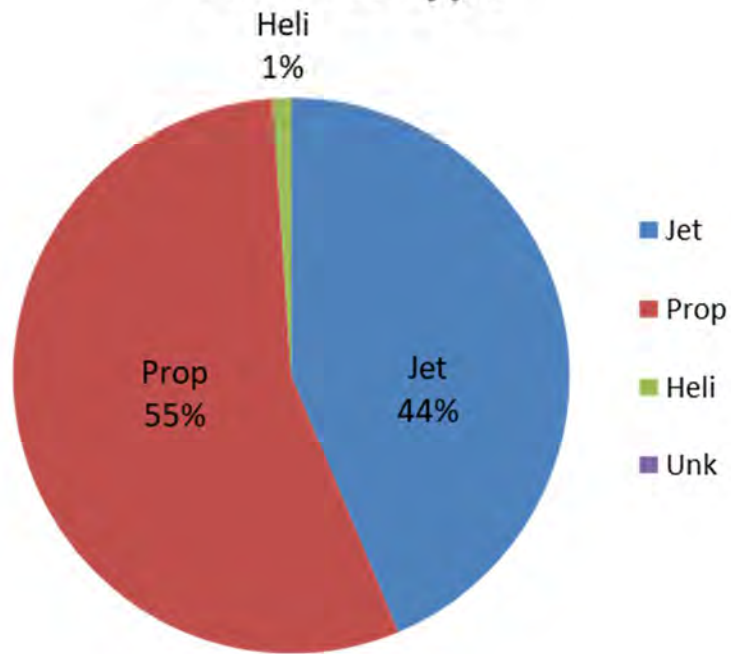


December 2018 Noise Complaints			2018 Year End	
Municipality	Complaints	Households	Complaints	Households
Arapahoe County Unincorporated	53	6	1571	143
Aurora	28	1	770	11
Castle Pines	0	0	1	1
Castle Rock	0	0	34	4
Centennial	22	2	578	33
Cherry Hills Village	0	0	65	12
Denver	0	0	35	11
Douglas County Unincorporated	47	3	767	39
Greenwood Village	9	5	504	62
Highlands Ranch	0	0	2005	8
Lone Tree	20	3	357	19
Parker	0	0	49	8
Other	6	2	140	14
Total	185	22	6876	365

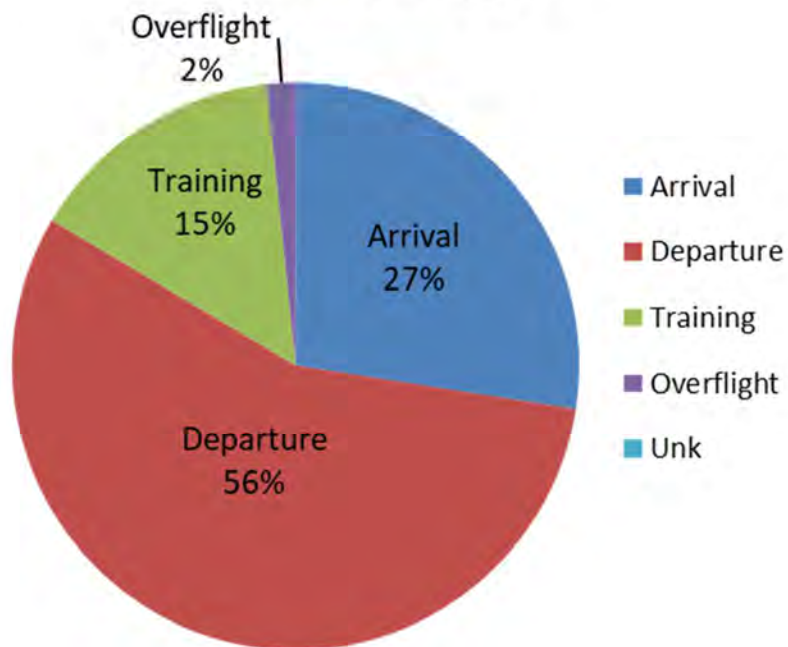
Month Comparison: 2018 Noise Calls - Daytime vs. Nighttime

Time Complaint Received	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	2018 YTD
Day Hours (7:00 am - 9:59pm)	900	683	734	705	420	438	421	577	511	350	186	164	6089
Night Hours (10:00 pm - 6:59 am)	91	93	82	59	99	61	70	103	55	29	24	21	787
TOTAL	991	776	816	764	519	499	491	680	566	379	211	185	6876

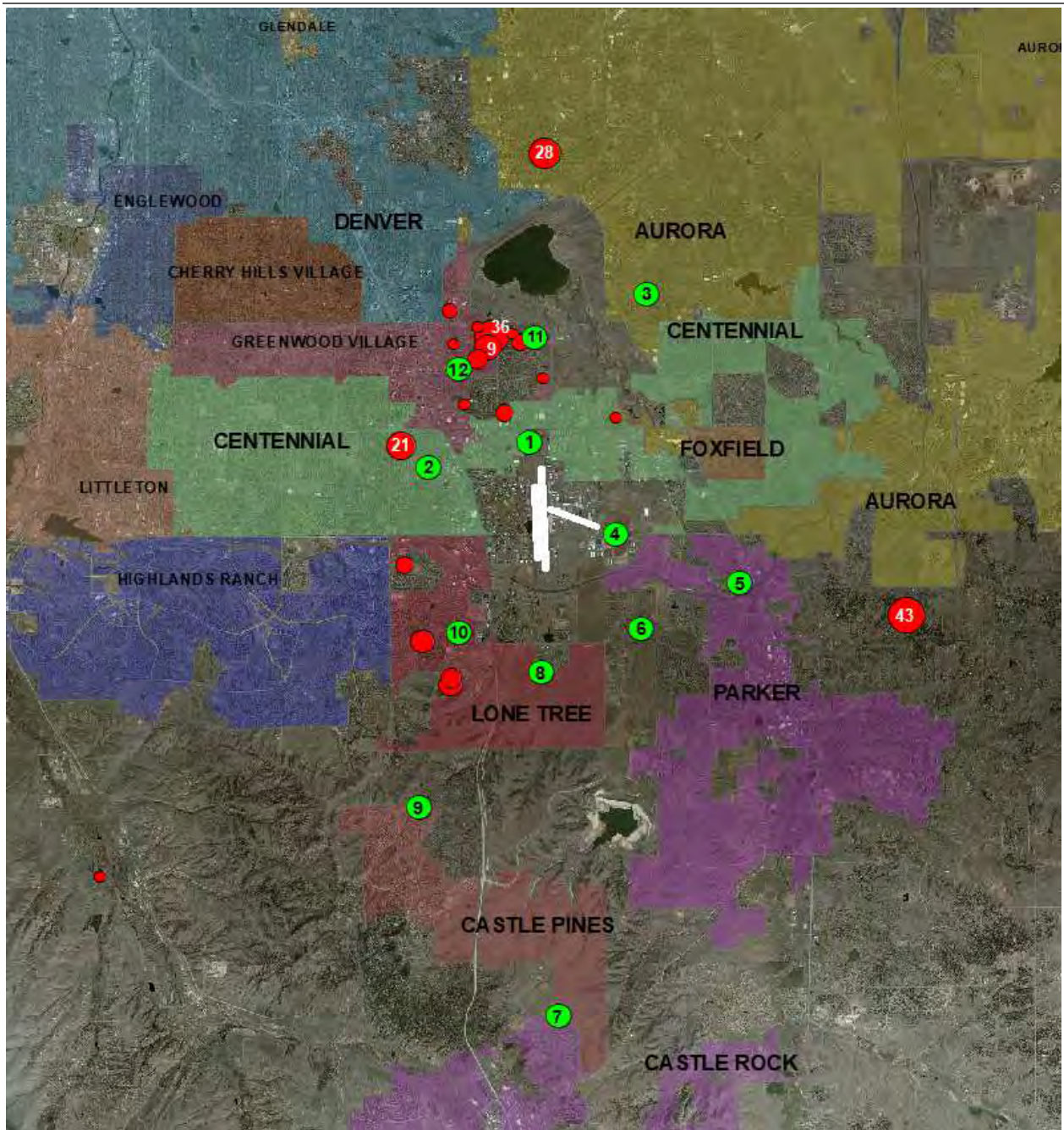
December Complaints by Aircraft Type



December Complaints by Operation Type



7 DECEMBER COMPLAINT MAP



*2 house outside map

December 2018 Complaints

MAP LEGEND:

Green = Noise Monitor Locations

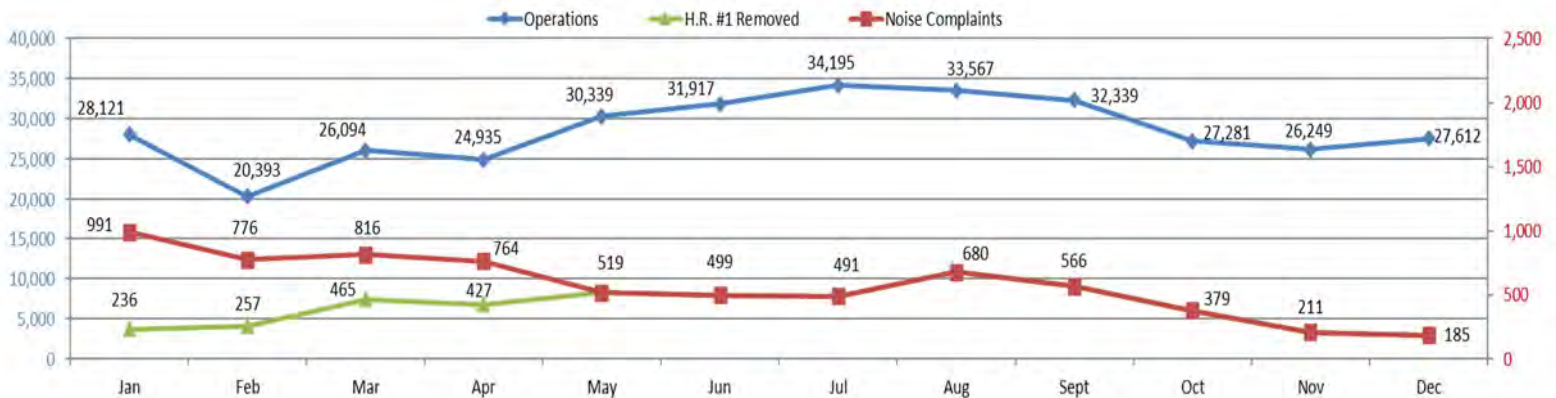
Red = Household Complaint Locations.

*Larger dots equate to more complaints for that particular household

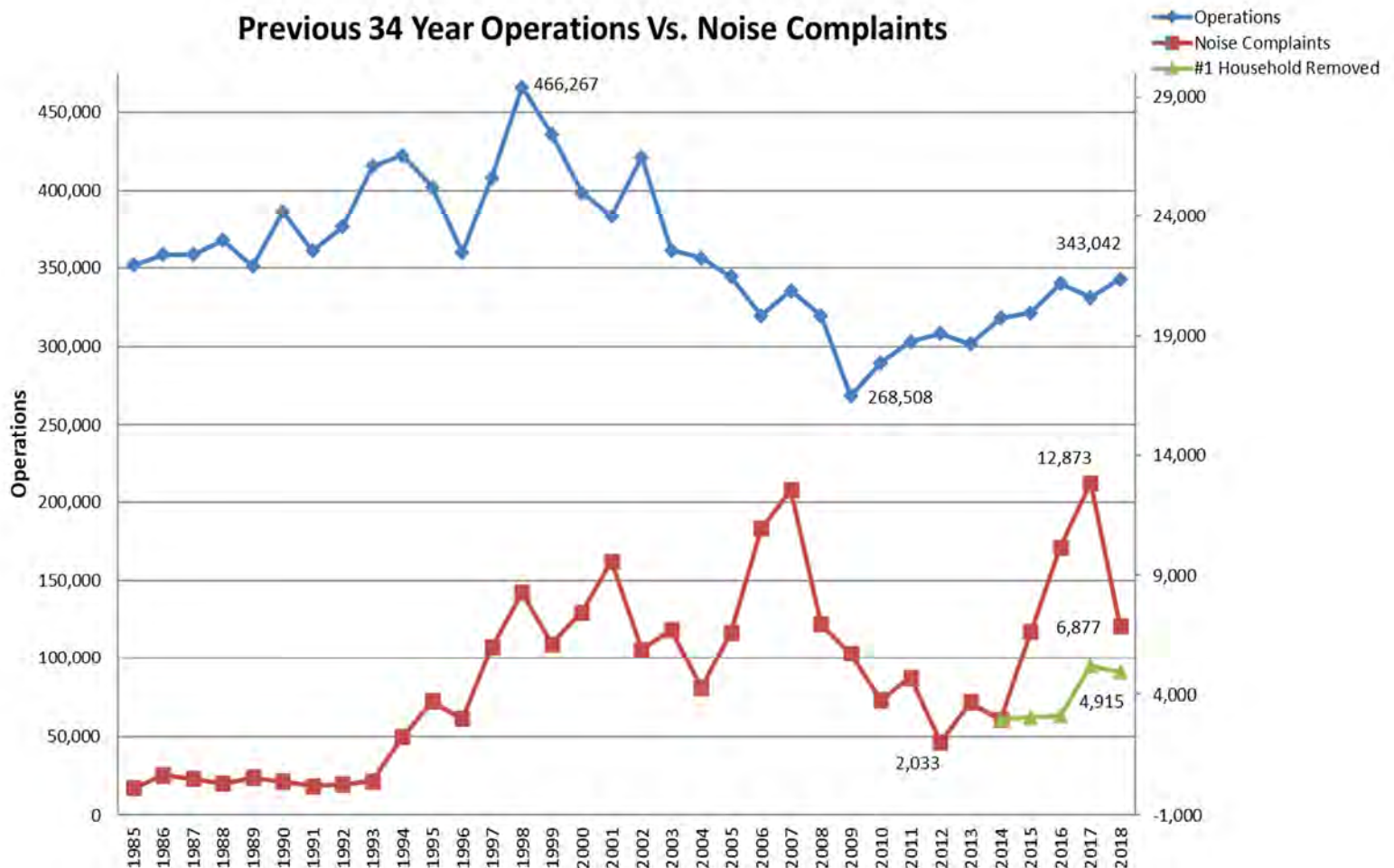
8 2018 YEAR END STATISTICS

In 2018, Centennial Airport received 6,877 complaints from 365 Households. With the #1 household removed, Centennial Airport Received 4,915 complaints.

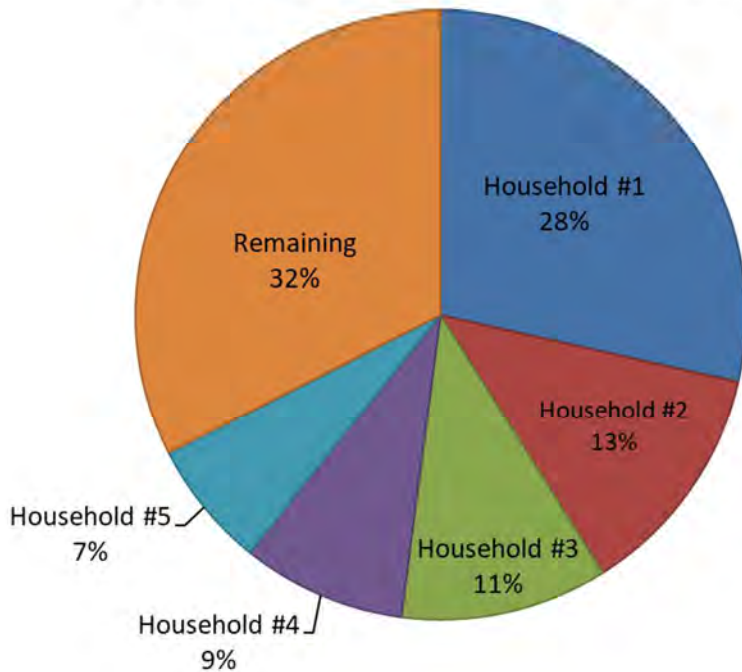
2018 YTD Operations vs. Noise Complaints



Previous 34 Year Operations Vs. Noise Complaints

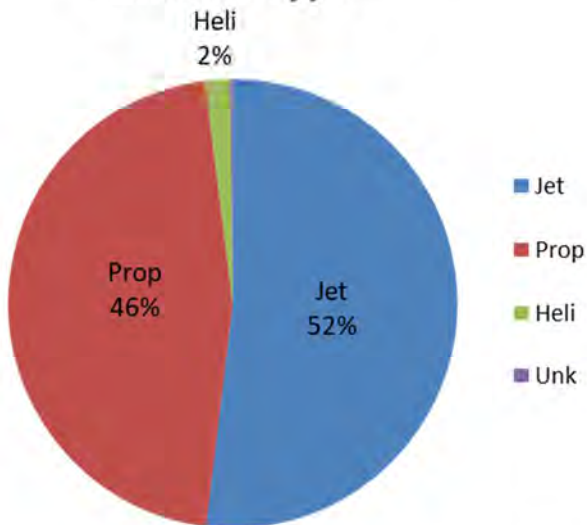


2018 YTD Top 5 Household Complaints



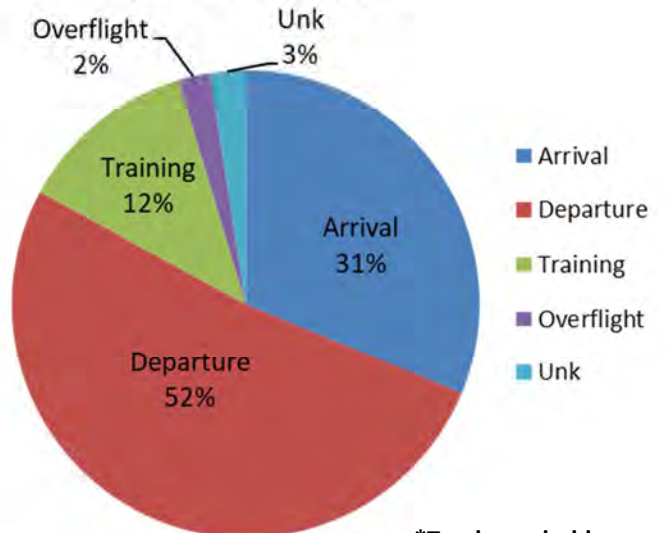
2018 Top 5 Household Complaints		
Household	Complaints	Households
Household #1	1,962	Highlands Ranch
Household #2	863	Arapahoe County Unincorporated
Household #3	755	Aurora
Household #4	597	Douglas County Unincorporated
Household #5	465	Centennial
Remaining	2,235	
Total	6,877	

2018 Complaints by Aircraft Type



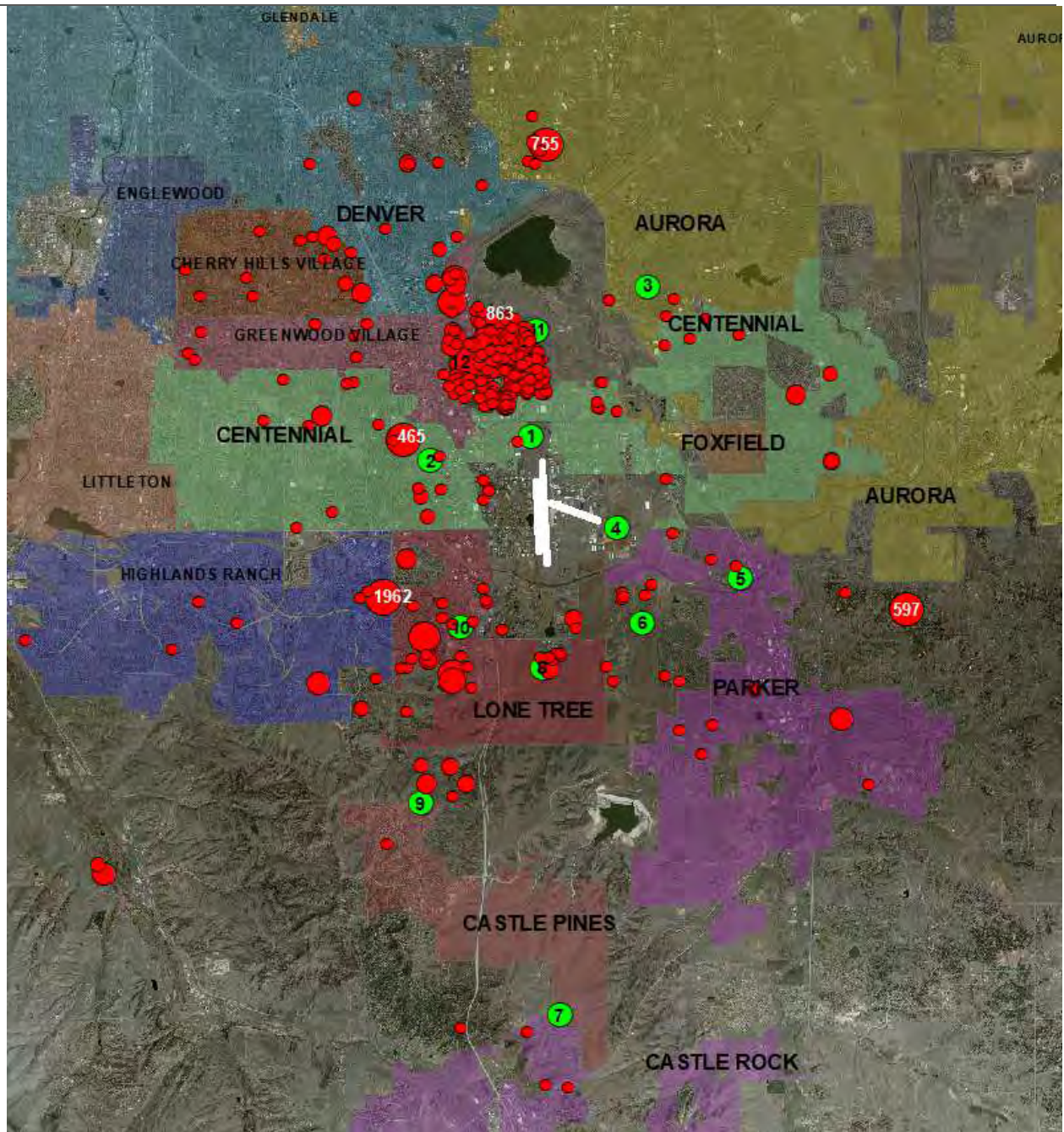
*Top household removed

2018 Complaints by Operation Type



*Top household removed

9 2018 COMPLAINT MAP



*15 households outside map

2018 Complaints

MAP LEGEND:

Green = Noise Monitor Locations

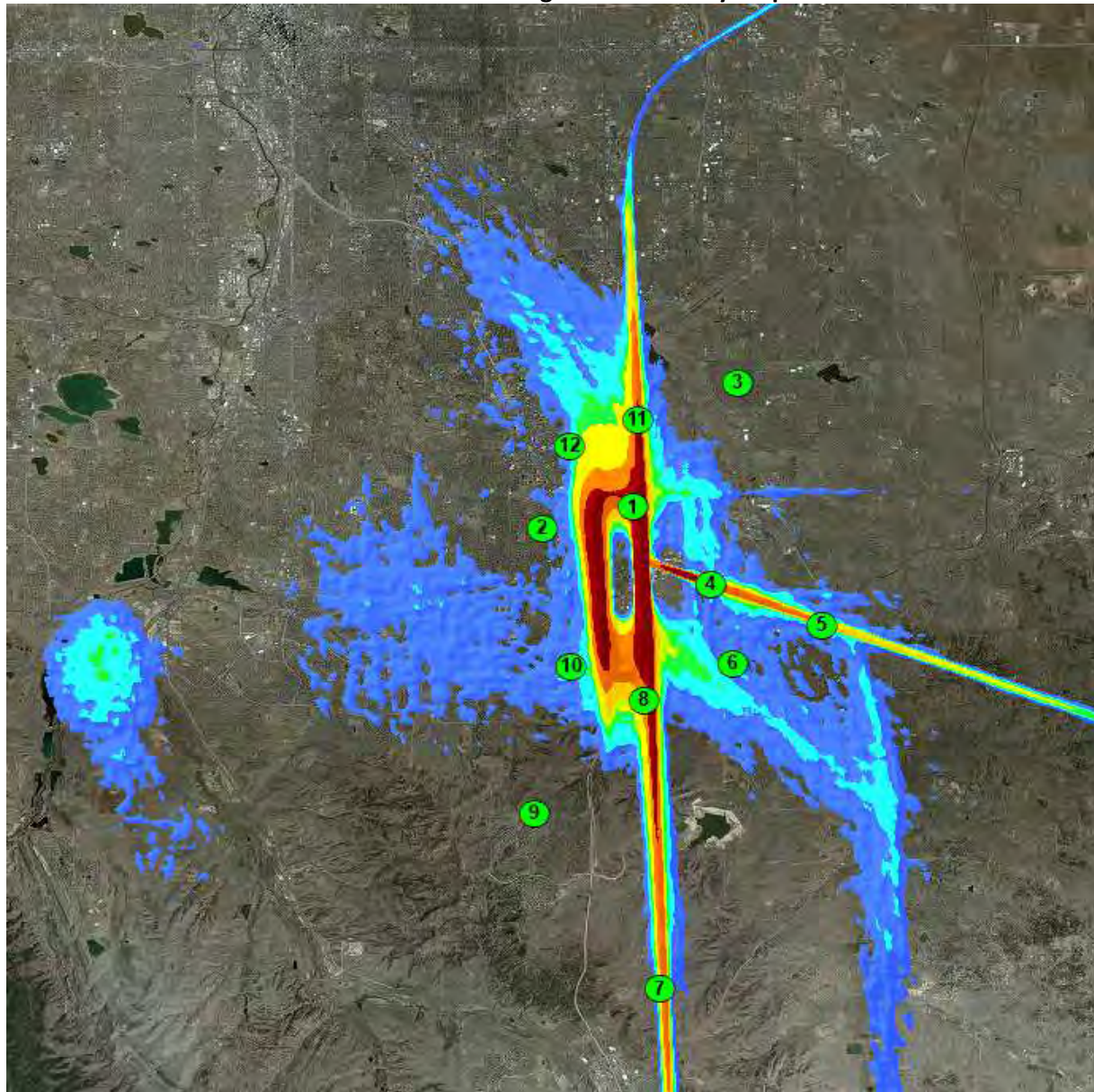
Red = Household Complaint Locations.

*Larger dots equate to more complaints for that particular household

10 RADAR TRACK DENSITY MAP

The following 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.

December 2018 Flight Track Density Map



Lower Density Traffic

Higher Density Traffic

Green = Noise Monitor Locations

11 NOTES AND DISCLAIMER

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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**.



MONTHLY | **January 2019**

Noise Report



Centennial Airport
Arapahoe County Public Airport Authority

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3	About APA's Noise Monitoring Program	3
4	About WebTrak™	4
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6	Noise Monitor Reports.....	6
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10	Notes and Disclaimer	12

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.

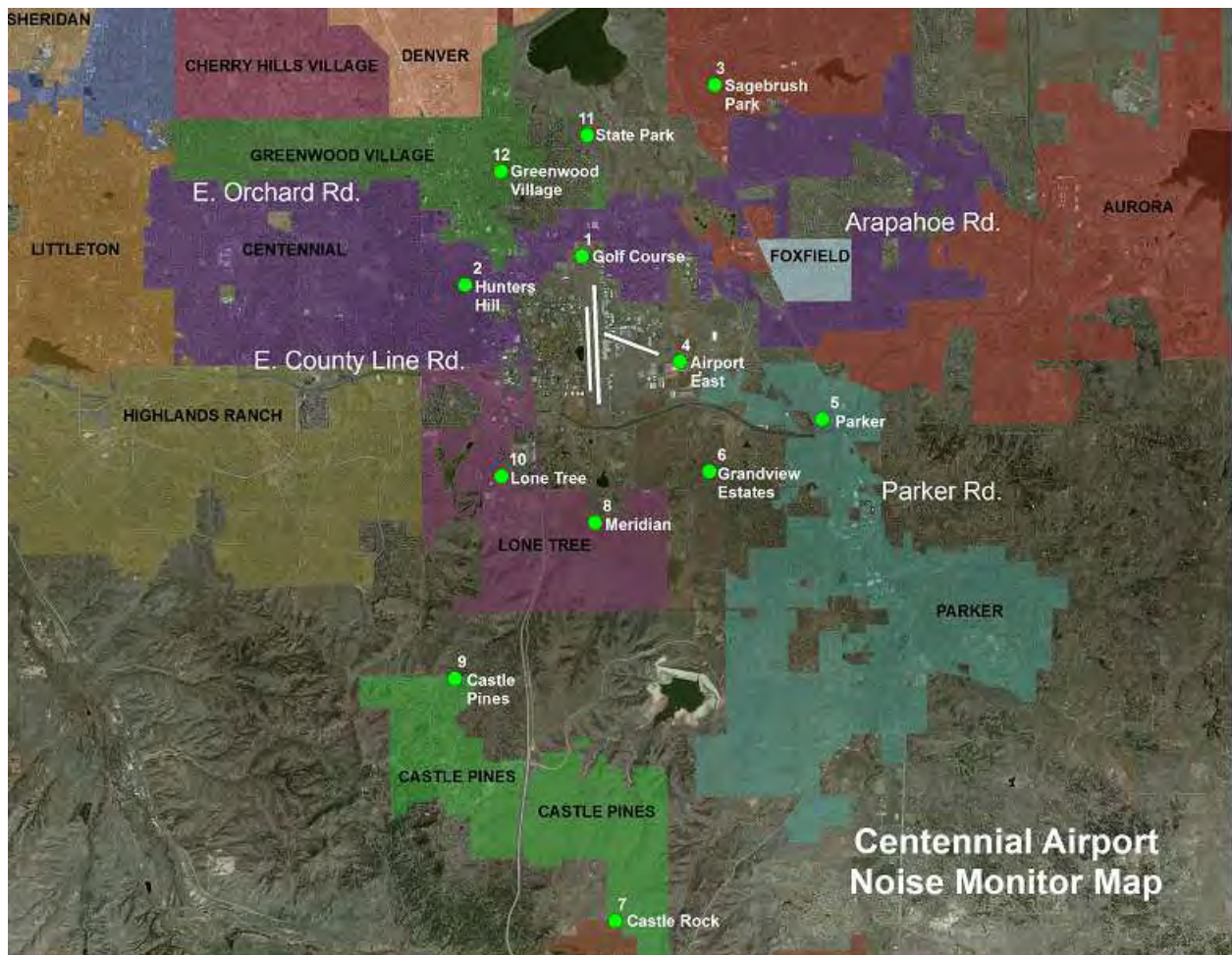
Visual Flight Rules (VFR) – A set of regulations under which a pilot operates an aircraft in weather conditions generally clear enough to allow the pilot to see where the aircraft is going. A flight plan is not required when the pilot is operating under Visual Flight Rules.

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.

Overview

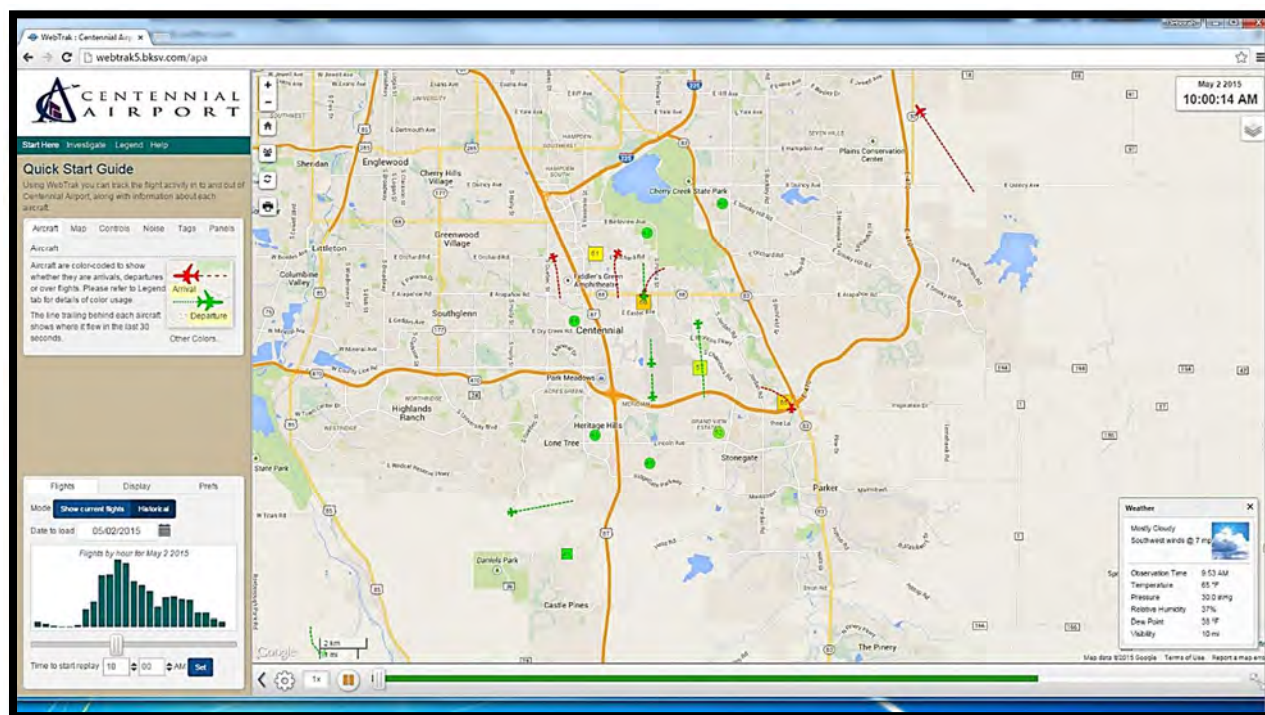
3 ABOUT APA'S NOISE MONITORING PROGRAM

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



4 ABOUT WEBTRAK™

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



How to participate

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

APA WebTrak: <http://webtrak.bksv.com/apa>

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

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

APA Noise Hotline:
303-790-4709

5 OPERATIONS STATISTICS

	IFR ITINERANT				VFR ININERANT				LOCAL		
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL	G.A.	MILITARY	TOTAL LOCAL
January	2,142	3,332	98	5,572	460	7,586	68	8,114	11,190	45	11,235
February				0				0			0
March				0				0			0
April				0				0			0
May				0				0			0
June				0				0			0
July				0				0			0
August				0				0			0
September				0				0			0
October				0				0			0
November				0				0			0
December				0				0			0
Y-T-D Totals	2,142	3,332	98	5,572	460	7,586	68	8,114	11,190	45	11,235

	IFR OVERFLIGHTS				VFR OVERFLIGHTS				TOTAL OPERATIONS	
	AIR TAXI	G.A.	MILITARY	TOTAL INTINERANT	AIR TAXI	G.A.	MILITARY	TOTAL		
January	2	15	7	24	127	242	18	387	January	25,332
February				0				0	February	
March				0				0	March	
April				0				0	April	
May				0				0	May	
June				0				0	June	
July				0				0	July	
August				0				0	August	
September				0				0	September	
October				0				0	October	
November				0				0	November	
December				0				0	December	
Y-T-D Totals	2	15	7	24	127	242	18	387	Y-T-D Totals	25,332

Definitions

Air Taxi – A company that operates aircraft that carry cargo or mail, or passengers on an on demand or charter basis.

General Aviation (G.A.) – All civil aviation operations other than scheduled air services and non-scheduled air transport operations for remuneration or hire.

Local – Operations are performed by aircraft which operate in the local traffic pattern or within sight of the airport; flight in local practice areas located within a 20-mile radius of the airport; execute simulated instrument approaches or low passes at the airport.

IFR Itinerant – Operations other than local operations conducted under Instrument Flight Rules.

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

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

6 NOISE MONITOR REPORTS

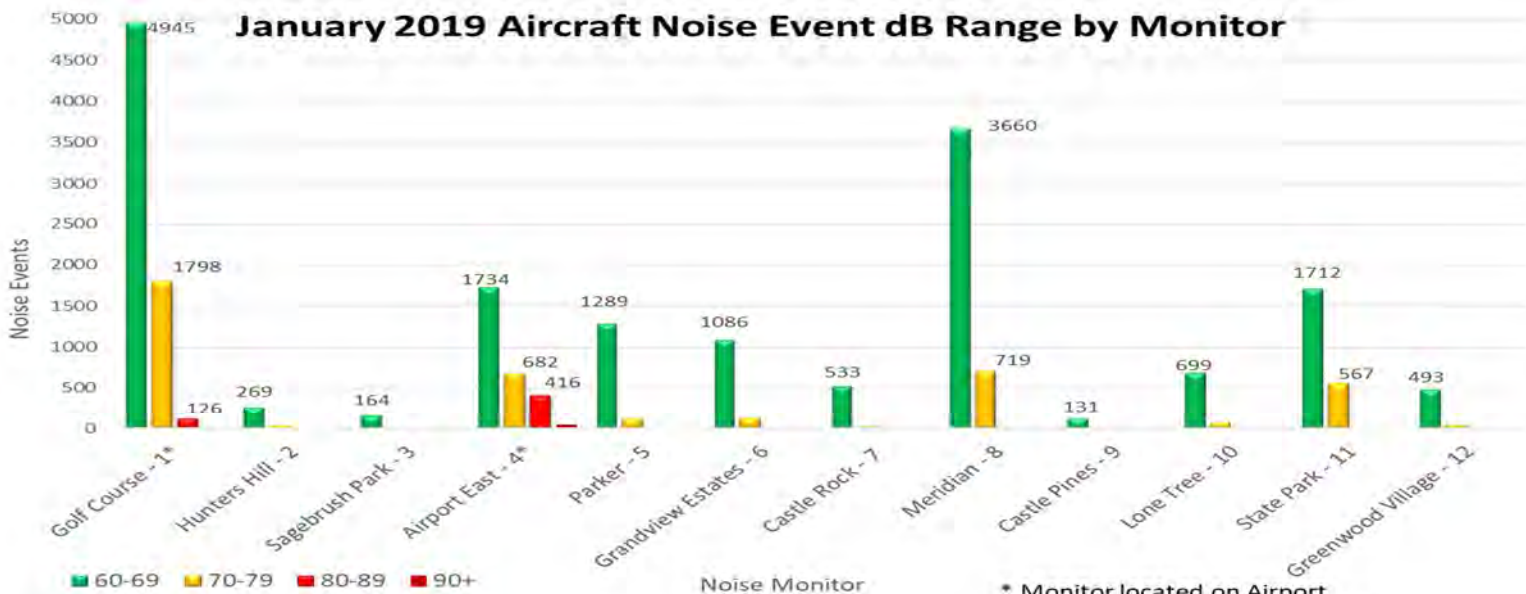
The following data displays the amount and associated decibel level of aircraft noise events at a given monitor. An aircraft noise event must contain the following characteristics:

First, the noise event must exceed the ambient noise level. This number varies at every monitor, but is generally greater than 50-55db. Secondly, the noise event must last longer than 5 seconds. Lastly, using radar data, the system must correlate an aircraft with the noise event. This ensures that the sound is not associated with a 'community noise event' such as a lawn mowers or emergency sirens.

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

January 2019 Aircraft Noise Event Decibel Range By Monitor					
Monitor	60-69	70-79	80-89	90+	Totals
Golf Course - 1*	4945	1798	126	10	6879
Hunters Hill - 2	269	48	4	0	321
Sagebrush Park - 3	164	22	0	0	186
Airport East - 4*	1734	682	416	40	2872
Parker - 5	1289	123	4	0	1416
Grandview Estates - 6	1086	139	6	0	1231
Castle Rock - 7	533	35	0	0	568
Meridian - 8	3660	719	21	2	4402
Castle Pines - 9	131	12	0	0	143
Lone Tree - 10	699	74	1	0	774
State Park - 11	1712	567	10	2	2291
Greenwood Village - 12	493	51	1	2	547
Totals	16715	4270	589	56	21630

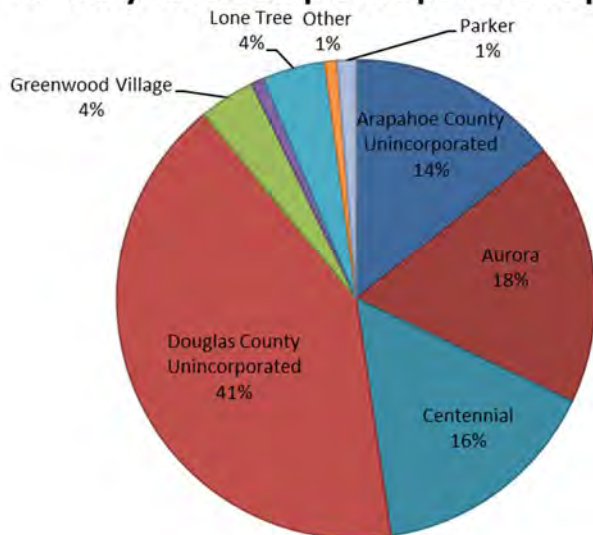
*Monitor located on Airport



7 JANUARY 2019 NOISE COMPLAINTS

For the month of November, Centennial Airport received 237 complaints from 20 households.

January 2019 Complaints per Municipality



Noise Complaints Response Requested

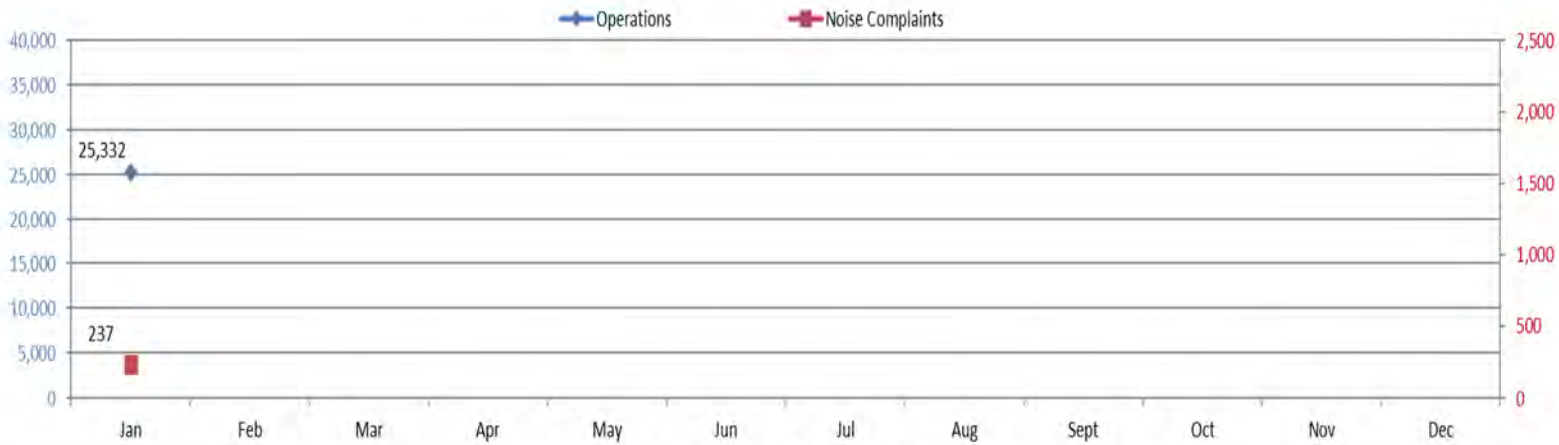
Email	4
Phone	0
Total	4

January 2019 Noise Complaints			YTD	
Municipality	Complaints	Households	Complaints	Households
Arapahoe County Unincorporated	34	5	34	5
Aurora	42	1	42	1
Castle Pines	0	0	0	0
Castle Rock	0	0	0	0
Centennial	37	2	37	2
Cherry Hills Village	0	0	0	0
Denver	0	0	0	0
Douglas County Unincorporated	98	4	98	4
Greenwood Village	9	1	9	1
Highlands Ranch	2	2	2	2
Lone Tree	10	2	10	2
Parker	3	2	3	2
Other	2	1	2	1
Total	237	20	237	20

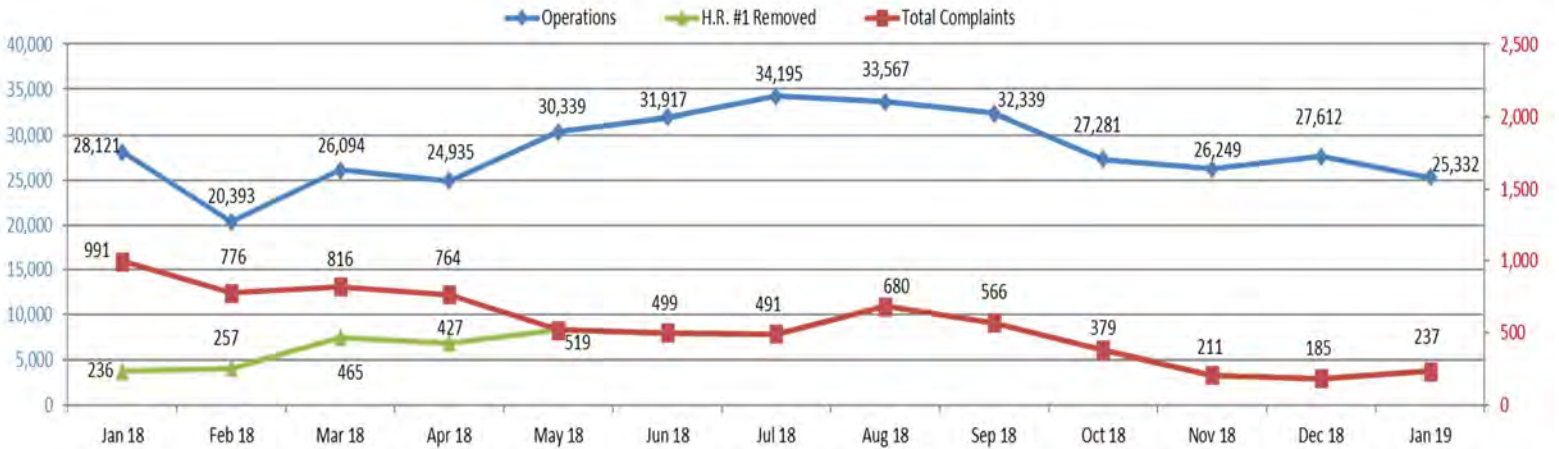
Month Comparison: 2019 Noise Calls - Daytime vs. Nighttime

Time Complaint Received	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	2018 YTD
Day Hours (7:00 am - 9:59pm)	203												203
Night Hours (10:00 pm - 6:59 am)	34												34
TOTAL	237	0	0	0	0	0	0	0	0	0	0	0	237

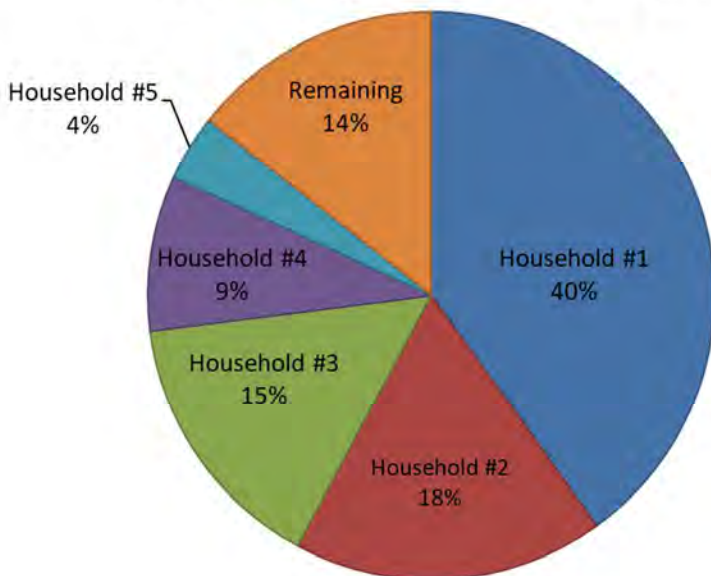
Current 12 Month Trend



Previous Year 13 Month Trend



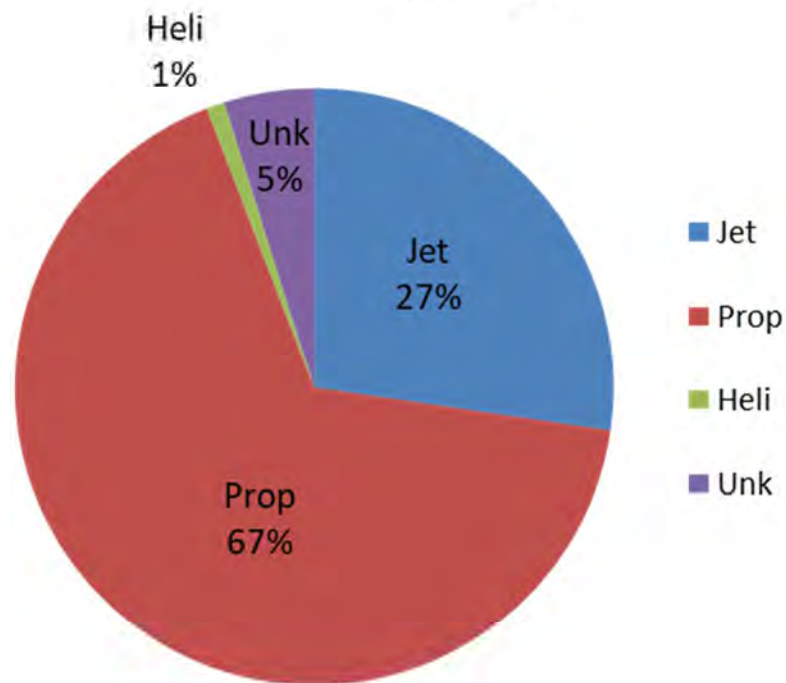
2019 YTD Top 5 Household Complaints



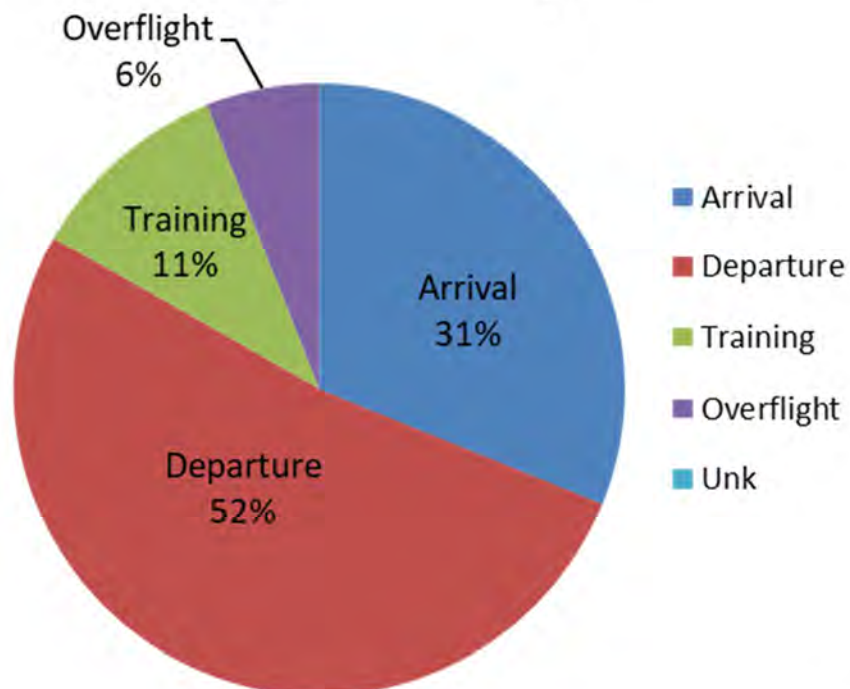
YTD Top 5 Household Complaints

Household	Complaints	Municipality
Household #1	95	Douglas County Unincorporated
Household #2	42	Aurora
Household #3	36	Centennial
Household #4	21	Arapahoe County Unincorporated
Household #5	9	Greenwood Village
Remaining	34	
Total	237	

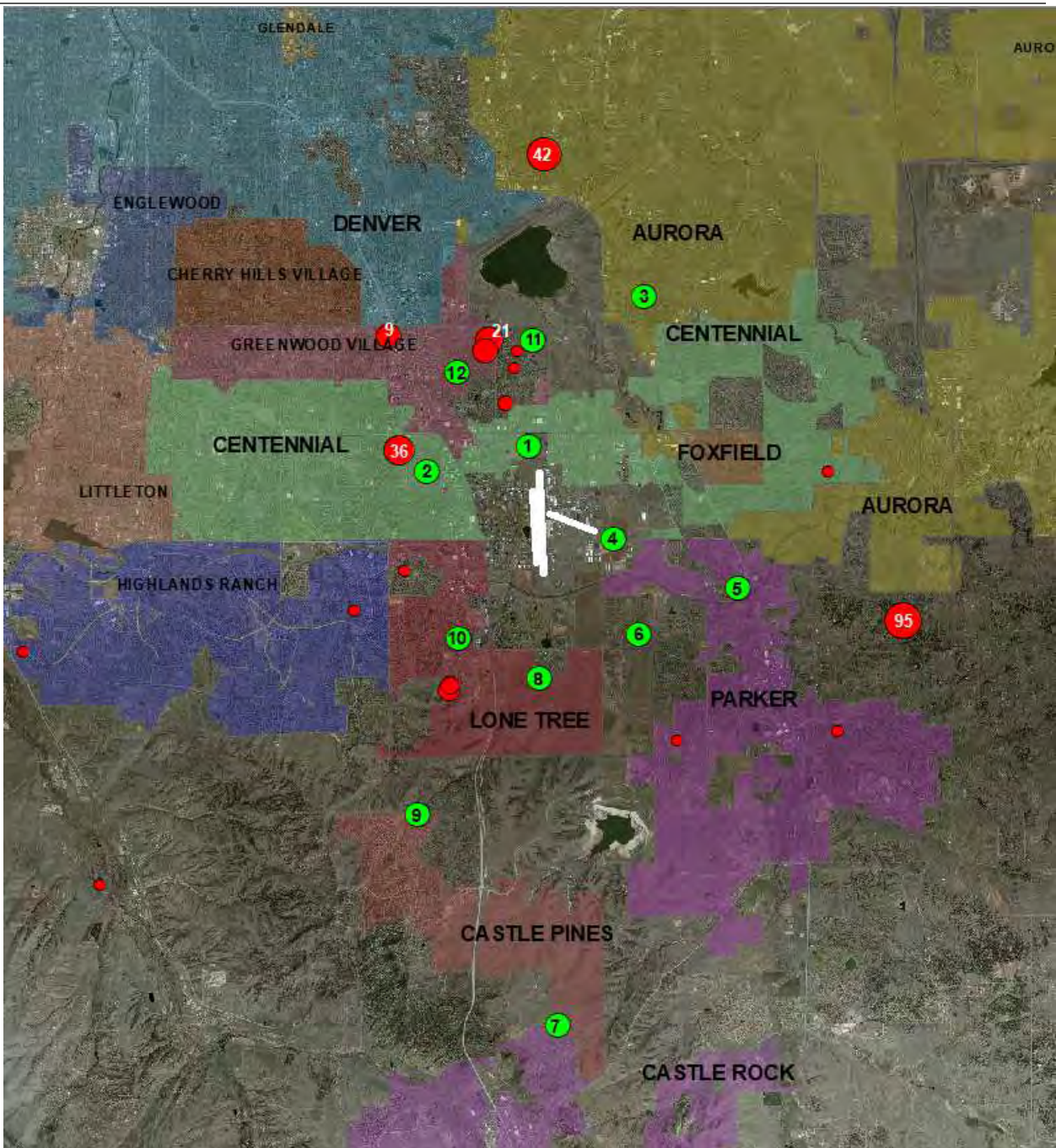
January 2019 Complaints by Aircraft Type



January 2019 Complaints by Operation Type



8 COMPLAINT MAP



January 2019 Complaints

*2 households outside map

MAP LEGEND:

Green = Noise Monitor Locations

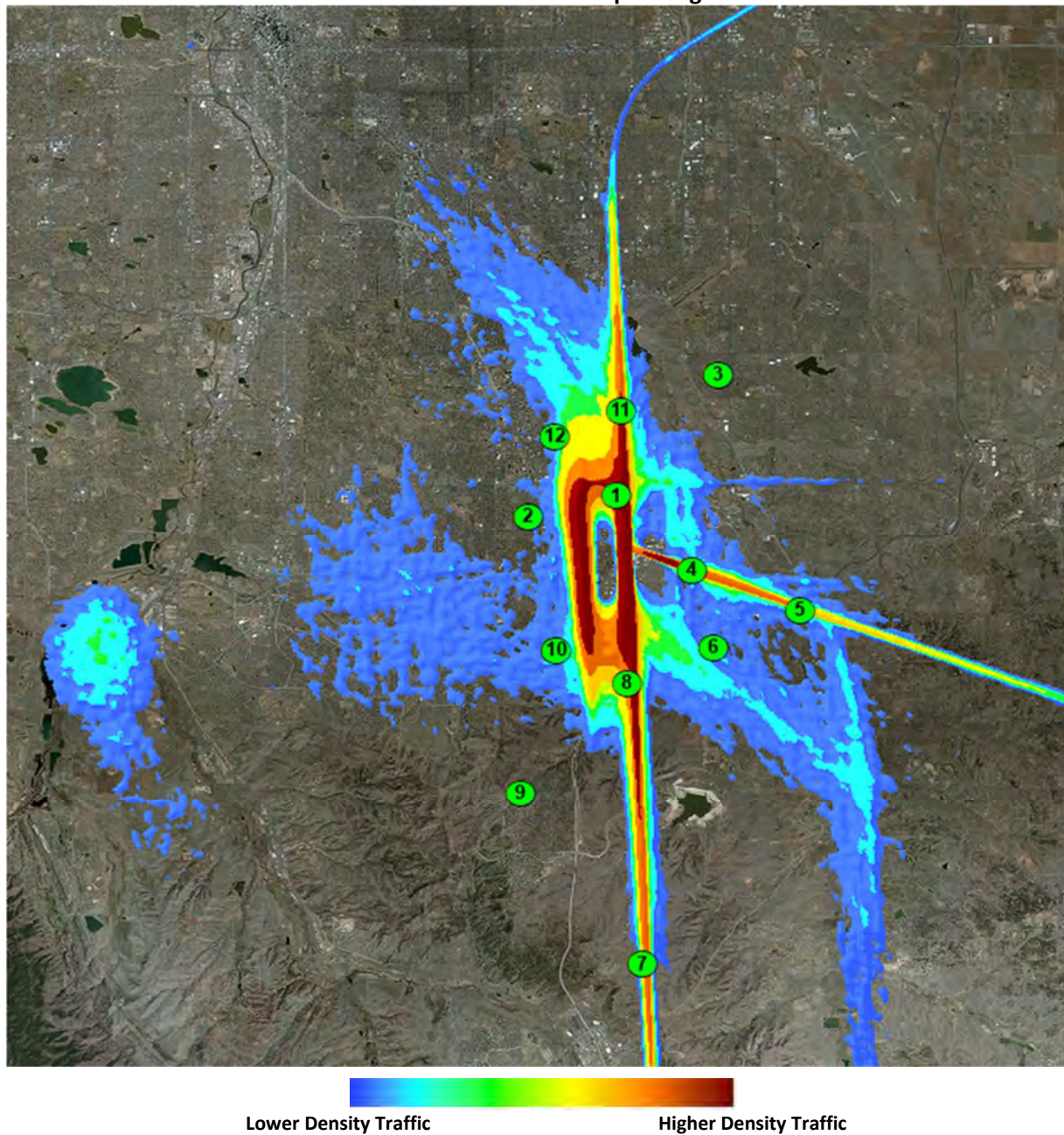
Red = Household Complaint Locations.

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

9 RADAR TRACK DENSITY MAP

The following 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.

December 2018 Centennial Airport Flight Tracks



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Noise Hotline: 303-790-4709

www.centennialairport.com

ACPAA BOARD MEETING NOTES – FEBRUARY 14, 2019

Robert Doubek, Chair

An Executive Session regarding Centennial Hotel, LLC was held prior to start of the regular Board Meeting.

The Board meeting resumed and Abe Laydon, newly elected Douglas County Commissioner, was welcomed to the Board as a new member representing Douglas County. He serves with Jim Huffman and John Seiber. In addition, Abe has been appointed to serve on the Centennial Airport Community Airport Noise Roundtable.

An election of Airport Authority Board Officers was held, with the following officers elected starting from 2/14/2019 for two-year terms:

Chair: Nancy A. Sharpe

Chair Pro-Tem: Thad Bagnato

Clerk: Jeff Baker

Treasurer: Robert Doubek

Assistant Clerk: Bill L. Holen

Jurisdiction to proceed with a Public Hearing was established and GAMA Aviation was approved to conduct Mobil Aircraft Ground services.

The Public Hearing also included a presentation from Clifford Neuman, attorney for Centennial Hotel, and others, regarding the airports claim of default of the Ground Lease.

The Public Hearing was closed, and a second Executive Session resumed pertaining to the Centennial Hotel, LLC.

Rjd/2/28/2019

CACNR Report to Arapahoe County Public Airport Authority
December 13, 2018

FROM: Centennial Airport Community Noise Roundtable

SUBJECT: Centennial Airport Community Noise Roundtable Update

RECOMMENDATION: Advisory

BACKGROUND: Since the last report, the Centennial Airport Community Noise Roundtable has held two regular meetings, on November 14, 2018 and December 5, 2018. During those meetings:

- Welcomed the news that the Memorandum of Understanding (MOU) and its accompanying funding structure have been officially approved by more than the number of Regular Members required for it to become operational. Those approving it include Douglas County, Aurora, Castle Pines, Centennial, Cherry Hills Village, Greenwood Village, Lone Tree, Parker, and the Arapahoe County Public Airport Authority. The Colorado Aviation Business Association, an Advisory Member, has also formally acknowledged the MOU and its role with CACNR. The remainder of potential MOU participants are considering approval according to their individual meeting schedules.
- Agreed to forego January 2, 2019 regular meeting, due to its proximity to the end of the holiday season.
- Continued fine-tuning 2019 Work Program; adoption anticipated on February 6, 2019.
- Approved committees to proceed as generally outlined in the draft program during the interim.
- In addition to consideration of the September and October Noise Reports, received comparative information about annual noise events at each noise monitors; the latest provided comparative percentage changes between 2015 and 2016, and between 2016 and 2017. Having such additional information should be useful to future CACNR efforts related to noise reduction for our communities.
- Continued efforts to stay informed about the FAA's Metroplex plans.
- Had representation at meetings of N.O.I.S.E. and the NextGen Advisory Committee during the last two months and will be represented at the UC Davis Noise and Emissions symposium in March.
- Agreed to move its regular monthly meetings to the Arapahoe Board Room, 6924 S. Lima, Centennial, CO during 2019.
- Wishes ACPAA and the Centennial Airport Staff the happiest of holidays!
- The approved minutes from October 3, 2018 and November 14, 2018 are attached.

Alison Biggs, CACNR Secretary

FAA Metroplex Meeting Summary 12/6/18
Melissa Coudeyras

Dave Sume- Administrator of northwest region
Mark Phipps-co lead on Metroplex
Marina -environmental lead

Restarting from 2104-stopped 2017
Radar navigation to Performance based Navigation Pnav (satellite based)
Nextgen (RNAV) implemented in 2012.

DIA-arrivals in 4 corners, departures out of 4 sides. Not changing these patterns.
New method safer to allow for better control of arrival departure paths. More efficient arrival paths—
optimized profile descent—reduced fuel burn, less carbon emissions, less noise. Gradual descent not
stair step descent. Can use speed more effectively. Encoding change to make notifying plane from tower
less complicated.

Mayor of Columbine Valley stated that concern from residents was over concentrated flight paths—3
mile width. Dispersion of flights not changing. Comparable to what they are today. Per FAA
representatives.
Vague as to what they will be.

FAA stated that they took feedback from last workshops and incorporated it into the plan.
Public workshops May 2019 will also take feedback from public.

Draft Environmental Assessment-Noise, Air Quality, endangered species etc. Draft assessment will be
released with public workshops April 2019. 30 day public comment. Final EA released September 2019.
March 26, 2020 proposed project implementation.

Community involvement- no person identified to send comments to.

Phoenix metroplex is only one that did not go through.

Michael Fronapfel

From: Dylan Heberlein
Sent: Friday, February 8, 2019 1:53 PM
To: Alison Biggs; Andrea Suhaka; Bette Todd; Brad Pierce; Bryce Matthews; Candace Moon; Chuck Lawson; Dave Goddard; Deidra Tjerandsen; Dennis Fria; Don Kuskie; Doug Tisdale; Harold Anderson -; Heather Vidlock; jahirshman@gmail.com; Jennifer Drybread; Jennifer Houlne; Jim Dawkins - Arapahoe County Roundtable Rep; Joe Fowler; Kandice Krull; Karen Blilie; Katy Brown; Lane Recher; linda.bruce@faa.gov; BFord@crgov.com; Maureen Shul; Michael Fronapfel; Mike Sutherland; Porter Ingram; Randi Gallivan; Rex Lucas; Robert Doubek; Robert Olislagers; Ryan Sarni; Shawn Reuth; Steve Moran; Sue Rosser; ssquyer@comcast.net; Thad Bagnato; Todd Green; Dylan Heberlein; jhartig@douglas.co.us; melissa.coudeyras@castlepinesgov.com; kconti@arapahoegov.com; rweil@cherryhillsvillage.com; aaron.repp@gmail.com; rmcgee@parkeronline.org; ben.price@castlepinesgov.com; aholland@parkeronline.org; Jonathan.Vavra-Fong@faa.gov; Diana.Hanley@FAA.gov; ronald.l.curry@faa.gov; Svossler@crgov.com; Koiv-Haus, Liia; tdougherty@greenwoodvillage.com; krider@douglas.co.us; bill.wasmund@gmail.com; mstraka@mycaba.org; gardner_k@netzero.com; Gina Conley; mike.anderson@cityoflonetree.com; Alex Montoya; Jolene Nagle; mhalstead@arapahoegov.com
Subject: FW: FAA NextGen System Update
Attachments: 01.09.2019 Letter to Mayor Piko regarding FAA Metroplex issue.pdf; 01.09.2019 Letter to Mayor Brinkman regarding FAA Metroplex issue.pdf

Members of the Roundtable,

Please see the email below from Chairman Pierce pertaining to municipal responses the Denver Metroplex.

Thank you,

Dylan Heberlein

Senior Planner/Noise and Environmental



Arapahoe County Public Airport Authority
Centennial Airport
7800 South Peoria St. Unit G1
Englewood, CO 80112

(303)-790-0598 ext. 2921

From: "LeGare, Bob" <blegare@auroragov.org>
Date: February 8, 2019 at 8:32:14 AM MST
To: "Adams, George" <gadams@auroragov.org>, "Twombly, James" <jtombly@auroragov.org>, "Venegas, Roberto" <rvenegas@auroragov.org>, "Crews, Michael" <mcrews@auroragov.org>, Elected <Elected@auroragov.org>
Cc: Brad Pierce <bmpierce2@comcast.net>
Subject: Fwd: FAA NextGen System Update

Fyi - Not sure who is included in this me emails so I'm just forwarding it FYI.

Bob LeGare, Mayor
City of Aurora Colorado
Sent from my iPhone

Begin forwarded message:

From: "Alshadood, Maytham" <Maytham.Alshadood@mail.house.gov>
Date: February 7, 2019 at 11:19:09 PM MST
To: "Alshadood, Maytham" <Maytham.Alshadood@mail.house.gov>
Cc: "Meuse, Justin" <Justin.Meuse@mail.house.gov>
Subject: FAA NextGen System Update

Hello,

For your awareness, I am attaching the two letters that Congressman Crow sent to Mayor Stephanie Piko of Centennial and Mayor Debbie Brinkman of Littleton regarding the Federal Aviation Administration's (FAA) [Next Generation Air Transportation System \(NextGen\)](#).

The concern is that the proposed FAA airspace redesign will cause air traffic to be concentrated over certain portions of the City of Centennial and the City of Littleton. In order to make sure that our communities and constituents have been heard and involved in the process, Congressman Crow and staff initiated a conversation with the FAA and an update is provided in the attached letters.

Please feel free to reach out to our Legislative Director, Justin Meuse, at Justin.Meuse@mail.house.gov if you have any questions.

With my best,

ميثم الشدود

Maytham Alshadood

District Director

Congressman Jason Crow (CO-6)

3300 S, Parker Rd. Suite 100

Aurora, CO 80014

Cell: (720) 582-0422

Maytham.Alshadood@mail.house.gov

<https://Crow.house.gov>

Congress of the United States
House of Representatives
Washington, DC 20515-0606

January 9, 2019

Mayor Debbie Brinkman
City of Littleton
2255 W. Berry Avenue
Littleton, CO 80120

Dear Mayor Brinkman:

I appreciated speaking about the Federal Aviation Administration's (FAA) Next Generation Air Transportation System (NextGen) airspace modernization and the impact it will have on our constituents in Littleton and the surrounding communities. My staff had a conversation with the FAA and I would like to provide you with an update.


I share your concerns about increased noise complaints resulting from the Metroplex - Denver proposed airspace redesign in and around the Centennial Airport. As you mentioned in our conversation, the project does not need to undergo the traditional Environmental Impact Study (EIS) process. It received a categorical exemption because the FAA estimates the project will save 0.6 million gallons – \$1.8 million – of fuel and cause an estimated 5.4 thousand metric ton drop in carbon emissions.

The project will instead navigate a less rigorous Environmental Assessment (EA). Please know that I will fight for both you and me – and our constituents – to be able to participate in the FAA's processes and be heard. Possible opportunities will include:

- Public workshops in May 2019. I will request that the FAA hold one or more of these workshops in Littleton so that you, me and our constituents can learn more about the proposal.
- A formal comment period between June and September 2019. If the draft proposal adversely affects our constituents, we should work together to submit formal comments to the FAA detailing these effects.

I will keep you apprised of all opportunities as the FAA works through their process and I look forward to working with you. If you or your staff have any additional questions, please don't hesitate to reach out to my staff, Justin Meuse, at 202-225-7882 or at Justin.Meuse@mail.house.gov.

Sincerely,



JASON CROW
Member of Congress

Congress of the United States
House of Representatives
Washington, DC 20515-0606

January 9, 2019

Mayor Stephanie Piko
City of Centennial
13133 East Arapahoe Road
Centennial, CO 80112

Dear Mayor Piko:

I appreciated our meeting last month about the Federal Aviation Administration's (FAA) Next Generation Air Transportation System (NextGen) airspace modernization and the impact it will have on our constituents in Centennial and the surrounding communities. My staff had a conversation with the FAA and I would like to provide you with an update.


I share your concerns about increased noise complaints resulting from the Metroplex - Denver proposed airspace redesign in and around the Centennial Airport. As you mentioned in our meeting, the project does not need to undergo the traditional Environmental Impact Study (EIS) process. It received a categorical exemption because the FAA estimates the project will save 0.6 million gallons – \$1.8 million – of fuel and cause an estimated 5.4 thousand metric ton drop in carbon emissions.

The project will instead navigate a less rigorous Environmental Assessment (EA). Please know that I will fight for both you and me – and our constituents – to be able to participate in the FAA's processes and be heard. Possible opportunities will include:

- Public workshops in May 2019. I will request that the FAA hold one or more of these workshops in Centennial so that you, me and our constituents can learn more about the proposal.
- A formal comment period between June and September 2019. If the draft proposal adversely affects our constituents, we should work together to submit formal comments to the FAA detailing these effects.

I will keep you apprised of all opportunities as this process continues and I look forward to working with you. If you or your staff have any additional questions, please don't hesitate to reach out to my staff, Justin Meuse, at 202-225-7882 or at Justin.Meuse@mail.house.gov.

Sincerely,



JASON CROW
Member of Congress

Michael Fronapfel

From: Robert Olislagers
Sent: Saturday, February 9, 2019 10:08 AM
To: Dylan Heberlein
Cc: Alison Biggs; Andrea Suhaka; Bette Todd; Brad Pierce; Bryce Matthews; Candace Moon; Chuck Lawson; Dave Goddard; Deidra Tjerandsen; Dennis Fria; Don Kuskie; Doug Tisdale; Harold Anderson -; Heather Vidlock; jahirshman@gmail.com; Jennifer Drybread; Jennifer Houlne; Jim Dawkins - Arapahoe County Roundtable Rep; Joe Fowler; Kandice Krull; Karen Blilie; Katy Brown; Lane Recher; linda.bruce@faa.gov; BFord@crgov.com; Maureen Shul; Michael Fronapfel; Mike Sutherland; Porter Ingram; Randi Gallivan; Rex Lucas; Robert Doubek; Ryan Sarni; Shawn Reuth; Steve Moran; Sue Rosser; ssquyer@comcast.net; Thad Bagnato; Todd Green; jhartig@douglas.co.us; melissa.coudeyras@castlepinesgov.com; kconti@arapahoegov.com; rweil@cherryhillsvillage.com; aaron.repp@gmail.com; rmcgee@parkeronline.org; ben.price@castlepinesgov.com; aholland@parkeronline.org; Jonathan.Vavra-Fong@faa.gov; Diana.Hanley@FAA.gov; ronald.l.curry@faa.gov; Svossler@crgov.com; Koiv-Haus, Liia; tdougherty@greenwoodvillage.com; krider@douglas.co.us; bill.wasmund@gmail.com; mstraka@mycaba.org; gardner_k@netzero.com; Gina Conley; mike.anderson@cityoflonetree.com; Alex Montoya; Jolene Nagle; mhalstead@arapahoegov.com
Subject: Re: FAA NextGen System Update

Dear Roundtable Members,

The letters and Rep. Crow's involvement are very much appreciated as we near roll-out of the EA and the proposed routes for the DEN Metroplex.

That said, I was a bit mystified by the statement in the letters that a Cat Ex was already issued in advance of the EA on the basis of the carbon emissions and fuel use reductions. I forwarded the letters to Peter Kirsch, the attorney we have been working with on Metroplex. He confirmed that you cannot issue a Cat Ex before an EA has been issued.

I just wanted you to be well-informed on this issue since a Cat Ex would already have made the proposed DEN Metroplex a fait accompli.

Thank you,

Robert

On Feb 8, 2019, at 1:53 PM, Dylan Heberlein <dheberlein@centennialairport.com> wrote:

Members of the Roundtable,

Please see the email below from Chairman Pierce pertaining to municipal responses the Denver Metroplex.

Thank you,

Dylan Heberlein

Senior Planner/Noise and Environmental

<image001.png> <image003.png>
Arapahoe County Public Airport Authority
Centennial Airport
7800 South Peoria St. Unit G1
Englewood, CO 80112

(303)-790-0598 ext. 2921

From: "LeGare, Bob" <blegare@auroragov.org>
Date: February 8, 2019 at 8:32:14 AM MST
To: "Adams, George" <gadams@auroragov.org>, "Twombly, James" <jtwombly@auroragov.org>, "Venegas, Roberto" <rvenegas@auroragov.org>, "Crews, Michael" <mcrews@auroragov.org>, Elected <Elected@auroragov.org>
Cc: Brad Pierce <bmpierce2@comcast.net>
Subject: Fwd: FAA NextGen System Update

Fyi - Not sure who is included in this me emails so I'm just forwarding it FYI.

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City of Aurora Colorado
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From: "Alshadood, Maytham" <Maytham.Alshadood@mail.house.gov>
Date: February 7, 2019 at 11:19:09 PM MST
To: "Alshadood, Maytham" <Maytham.Alshadood@mail.house.gov>
Cc: "Meuse, Justin" <Justin.Meuse@mail.house.gov>
Subject: FAA NextGen System Update

Hello,

For your awareness, I am attaching the two letters that Congressman Crow sent to Mayor Stephanie Piko of Centennial and Mayor Debbie Brinkman of Littleton regarding the Federal Aviation Administration's (FAA) [Next Generation Air Transportation System \(NextGen\)](#).

The concern is that the proposed FAA airspace redesign will cause air traffic to be concentrated over certain portions of the City of Centennial and the City of Littleton. In order to make sure that our communities and constituents have been heard and involved in the process, Congressman Crow and staff initiated a conversation with the FAA and an update is provided in the attached letters.

Please feel free to reach out to our Legislative Director, Justin Meuse, at Justin.Meuse@mail.house.gov if you have any questions.

With my best,

ميثم الشدود

Maytham Alshadood

District Director

Congressman Jason Crow (CO-6)

3300 S, Parker Rd. Suite 100

Aurora, CO 80014

Cell: (720) 582-0422

Maytham.Alshadood@mail.house.gov

<https://Crow.house.gov>

<01.09.2019 Letter to Mayor Piko regarding FAA Metroplex issue.pdf>

<01.09.2019 Letter to Mayor Brinkman regarding FAA Metroplex issue.pdf>

MEMORANDUM

DATE: February 6, 2019
TO: ACPAA Board Members
FROM: Dylan Heberlein-Senior Planner/Noise&Environmental
RE: Land Use Review

The following is a list of Land Use Development referrals that have been reviewed by Centennial Airport staff from 10/1/2018 through 12/31/2018:

Date	Previously Referred	Development	Location	Referring Entity	Type	Recom.
10/1/2018	<input type="checkbox"/>	Crown Point F1 AMD 18 - Parker Adventist Medical Office Bldg	9397 Crown Crest Blvd Parker, Co. 80138	Town of Parker	C	A
10/1/2018	<input type="checkbox"/>	Crown Point F1 AMD 18 - Parker Adventist Medical Office Bldg	SEC E-470 and Parker Rd.	Town of Parker	C	A
10/1/2018	<input type="checkbox"/>	Keensen Storage Yard	NEC Blackhawk St. and E. Easter Ave.	City of Centennial	C	S
10/5/2018	<input type="checkbox"/>	Berkeley Homes Filing No. 1	NWC Canyonside Blvd. and Cross Canyon Tr.	Castle Pines	R	S
10/5/2018	<input checked="" type="checkbox"/>	Berkely Homes Filing No.1 Prelim and Final Plat	SW of Reuter-Hess Reservoir in Castle Pines	Castle Pines	R	S
10/5/2018	<input checked="" type="checkbox"/>	Canyons Berkeley Homes Filing No. 1 Preliminary Plan and Final Plat Case	SEC Hess Rd. and I-25	Castle Pines	R	S
10/22/2018	<input type="checkbox"/>	Hotel Inverness Renovation	NEC Inverness Dr. W and Inverness Lane W.	Arapahoe County	C	A
10/31/2018	<input type="checkbox"/>	Republic Waste Services	SEC Fremont Dr. and S Jordan Rd.	City of Centennial	C	A
11/6/2018	<input type="checkbox"/>	Cherrywood Commercial AMD3 L5 - Multi-tenant Com.	SEC E-470 and Jordan Rd.	Town of Parker	C	S
11/8/2018	<input type="checkbox"/>	Peakview Place MDP Amd. 2 and Final Plat	NEC Quebec St. and Caley Ave.	City of Centennial	C	A
11/9/2018	<input type="checkbox"/>	6090 S. Franklin Street Subdivision	SEC Maplewood Ave. and S. Franklin St.	City of Centennial	R	A
11/13/2018	<input type="checkbox"/>	Xcel Temporary Construction Staging Area for Pawnee-Daniels Park Transmission Line Project	NEC Hess Rd. and I-25	Douglas County	I	S
11/22/2018	<input checked="" type="checkbox"/>	The Canyons Filing No. 1, Amd 3	SEC Hess Rd. and I-25	Castle Pines	R	S
11/27/2018	<input type="checkbox"/>	Dove Valley V Filing No. 8	SWC Chambers Rd. and Potomac St.	Arapahoe County	C/I	S
11/27/2018	<input type="checkbox"/>	The Canyons Coffeehouse Site Improvement Plan	SEC Hess Rd. and I-25	Castle Pines	C	S
12/5/2018	<input type="checkbox"/>	Meridian International Business Center North Filing 1, 2nd Amendment	NEC I-25 and E-470	Douglas County	R	N
12/6/2018	<input checked="" type="checkbox"/>	Vantage Point Filing 1 AMD1, Lot 1 - Multifamily Site Plan	NEC Parker Rd. and Cottonwood Dr.	Town of Parker	R	S
12/9/2018	<input type="checkbox"/>	Fox Run Lofts	SEC Fremont St. and Potomac St.	Arapahoe County	R	S

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

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

Date	Previously Referred	Development	Location	Referring Entity	Type	Recom.
12/12/2018	<input type="checkbox"/>	Stroh Crossing F1 L3 B10- Firestone	NEC Stroh Rd. and Parker Rd.	Town of Parker	C	A
12/12/2018	<input checked="" type="checkbox"/>	The Canyons Filing No. 1, 2nd Amd	SEC Hess Rd. and I-25	Castle Pines	R	S
12/14/2018	<input type="checkbox"/>	Douglas County Zoning Resolution Amendment	N/A	Douglas County		A
12/27/2018	<input type="checkbox"/>	Clinton Street Apartments	NEC Geddes Ave and Clinton St.	City of Centennial	R	S

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

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



E County Line Rd

Inverness Way-E

Interport Blvd

Inverness Way-S

Inverness Dr-S

Inverness Pkwy

S Valley Hwy

S Park Meadows Center Dr

60 DNL

65 DNL

470

25

Aviator Way

Aviator Ln

Compark Blvd

Liberty Blvd

S Jamaica St

Liberty Cir

S Peoria St

E 470 (Toll road)

Centennial Trail

Blanca Ct

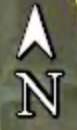
Lansing Cir

S Meridian Blvd

Belford Ave

Google Earth

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CACNR/ACPAA 2019 MEETING SCHEDULES

With

CACNR REPRESENTATIVES TO 2019 MEETINGS OF THE ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY

3:00 p.m., Wright Brothers Room, Centennial Airport, 7800 S. Peoria Street, Englewood, CO

CACNR MEETING	ACPAA MEETING	CACNR REPRESENTATIVE	REPORT DUE DATE (to Dylan)
None	None		None
February 06 (cancelled)	February 14	Katy Brown	February 08
March 06	March 14		March 8
April 03	April 11		April 05
May 01	May 09		May 03
June 05	June 20		June 07
July 10	None		August 01
August 07	August 08		No time to write
September 04	September 12		September 06
October 02	October 10		October 04
November 06	November 14		November 08
December 04	December 12		December 06

ROSTER – CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

	<u>PREFERRED TELEPHONE</u>	<u>OTHER (cell, home, etc.)</u>	<u>COMMITTEE(S)</u>	<u>EMAIL ADDRESS</u>
<u>ARAPAHOE COUNTY:</u>				
Kathleen Conti	303-795-4285	303-795-4630; 303-507-5170	(c) Fly Quiet	kconti@arapahoegov.com
Thad Bagnato	303-481-4260	303-918-7202 (c)	Fly Quiet	tbagnato@creativebakerysolutions.com
Jim Dawkins	303-906-0041 (c)		Noise Monitors (chair)	jimdawkins@comcast.net
vacant				
<u>DOUGLAS COUNTY:</u>				
Abe Laydon	303-660-7401			alaydon@douglas.co.us
Jamie Hartig	303-660-7460	303-814-4361	CACNR Treasurer; Work Plan	jhartig@douglas.co.us
Alison Biggs	303-790-4767	303-859-0231 (c)	CACNR Secretary; Study Group; Work Plan (chair)	albiggs@aol.com
Mike Acree	303-880-7253		Community Outreach	mikeacree@aol.com
<u>AURORA, City of:</u>				
Brad Pierce	303-739-7514	303-241-5559 (c)	CACNR Chair; Study Group (chair); Work Plan	bmpierce2@comcast.net
Liia Koiv-Haus	303-739-7137	860-287-8205 (c)	Work Plan	lkoiv@auroragov.org
<u>CASTLE PINES, City of:</u>				
Melissa Coudeyras	831-224-9573		Community Outreach (chair)	melissa.coudeyras@castlepinesgov.com
Ben Price	720-261-2241			ben.price@castlepinesgov.com
<u>CASTLE ROCK, Town of:</u>				
Brett Ford			Community Outreach	bford@cr.gov
Sandy Vossler	720-733-3556		Community Outreach	svossler@cr.gov
<u>CENTENNIAL, City of:</u>				
Candace Moon	303-754-3354		Noise Monitors	cmoon@centennialco.gov
Andrea Suhaka	303-770-0058		Study Group	standy@ecentral.com
<u>CHERRY HILLS VILLAGE, City of:</u>				
Al Blum				alblum@cherryhillsvillage.com
Randy Weil	303-725-1706		Noise Monitors	rweil@cherryhillsvillage.com
<u>FOXFIELD, Town of:</u>				
Dave Goddard	720-202-1011		Fly Quiet; Noise Monitors	dgoddard@townoffoxfield.com
Vacant				
<u>GREENWOOD VILLAGE, City of:</u>				
Tom Dougherty	303-804-4132		Noise Monitors	tdougherty@greenwoodvillage.com
Karen Blilie	303-220-1257		Fly Quiet	kblilie@comcast.net
<u>LONE TREE, City of:</u>				
Mike Anderson	303-708-1818		Community Outreach	mike.anderson@cityoflonetree.com
Jennifer Drybread	303-708-1818		Community Outreach	jennifer.drybread@cityoflonetree.com
<u>PARKER, Town of:</u>				
Amy Holland	303-419-5107 (c)		Community Outreach	aholland@mars-llc.com
Ryan McGee	303-841-2332, extension 3338		Community Outreach	rmcgee@parkeronline.org
<u>AIRCRAFT OWNERS AND PILOTS ASSOCIATION (AOPA):</u>				
Robert Doubek	303-771-8148		Fly Quiet	idadrase@centurylink.net
John Hirshman	720-232-6820		Noise Monitors	jahirshman@gmail.com
<u>ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY (ACPAA):</u>				
Robert Olislagers	303-790-0598 (APA main number)		Work Plan	rolislagers@centennialairport.com
Mike Fronapfel	303-218-2903	303-522-4650 (c)		mfronapfel@centennialairport.com

	<u>PREFERRED TELEPHONE</u>	<u>OTHER (cell, home, etc.)</u>	<u>COMMITTEE(S)</u>	<u>EMAIL ADDRESS</u>
<u>COLORADO AVIATION BUSINESS ASSOCIATION (CABA):</u>				
Don Kuskie	303-304-9476	303-618-1846	Fly Quiet (chair)	dkuskie@xjetworld.com
Mike Straka	303-881-3315 (c)		Fly Quiet	mstraka@mycaba.org
<u>COLORADO DEPARTMENT OF TRANSPORTATION – AERONAUTICS DIVISION (C-DOT):</u>				
Todd Green	303-512-5256	308-293-6067		todd.green@state.co.us
vacant				
<u>FEDERAL AVIATION ADMINISTRATION APA CONTROL TOWER:</u>				
Diana Hanley	720-873-2771			diana.hanley@faa.gov
Ron Curry	720-873-2774			ronald.l.curry@faa.gov
<u>FEDERAL AVIATION ADMINISTRATION DISTRICT OFFICE:</u>				
Linda Bruce	303-342-1264			linda.bruce@faa.gov
Kandice Krull	303-342-1261			kandice.krull@faa.gov
<u>FEDERAL AVIATION ADMINISTRATION TERMINAL RADAR APPROACH CONTROL (TRACON):</u>				
Steve Martin (Support Manager)				steve.martin@faa.gov
Bill Dunn (Support Specialist)				bill.dunn@faa.gov
<u>OTHERS:</u>				
Harold Anderson	303-799-3996	303-898-8032 (c)		handerson30@hotmail.com
John Baldyga NATCA - (tower union rep)				john.s.baldyga@faa.gov
Katy Brown	303-860-0262		Study Group	kbrown@cherryhillsvillage.com
Joe Fowler	303-814-4367	303-660-7460		jfowler@douglas.co.us
Dennis Fria (APA Tower Mgmt. Program Analyst)				dennis.fria@faa.gov
Randi Gallivan (Foxfield town clerk)	303-680-1544			clerk@townoffoxfield.com
Keith Gardner		303-885-5976		gardner_k@netzero.com
Karen Hancock	303-739-7107		Work Plan	khancock@auroragov.org
Dylan Heberlein	303-218-2921		Noise Monitors/Reports	dheberlein@centennialairport.com
Gerald Huthoefer	303-342-1525			gerald.huthoefer@faa.gov
Jennifer Houlne (Centennial Planner II)	303-754-3357			jhoulne@centennialco.gov
Porter Ingram	303-739-7227			pingrum@auroragov.org
Chuck Lawson (Huntington Acres HOA)				teshnaha@gmail.com
Jolene Nagle (Arapahoe County Admin)	303-795-4682			jinagle@arapahoe.gov
Rex Lucas				rexlucas303@gmail.com
Bryce Matthews (possible Parker alternate)	303-805-3174			bmatthews@parkeronline.org
Aaron Repp (APA)	303-218-2922			aaron.repp@gmail.com
Kati Rider (Douglas County)	303-814-4354			krider@douglas.co.us
Ryan Sarni (Cherry Creek Vista South)	720-369-3112			ryansarni@yahoo.com
Maureen Shul	720-733-0491	303-378-8868 (c)	Community Outreach	mashul1010@aol.com
Susan Squyer	303-906-9890			ssquyer@comcast.net
Mike Sutherland	303-908-6545 (c)			sutherlandmichael@comcast.net
Doug Tisdale	303-589-0758 (c)			DougTisdale@me.com
Bette Todd	303-916-4540		Noise Monitors (chair)	bet430@aol.com
Heather Vidlock	303-486-5774			hvidlock@greenwoodvillage.com
Bill Wasmund	720-560-9419 (c)		Fly Quiet	bill.wasmund@gmail.com

ATTENDANCE RECORD for 2018 - 2019 CACNR MEETINGS		2018	2018	2018	2018	2018	2018	2018	2018	2018	2019	2019	2019		TOTAL % of MEETINGS						
		APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR		%	REPRESENTED					
ARAPAHOE COUNTY	Kathleen Conti				absent	absent	X	X	X		N	N			33%	67%					
	Thad Bagnato		X	X	absent	absent				X	O	O			33%						
	Jim Dawkins	absent	absent	absent	absent	absent	absent	absent	absent	absent					0%	0%					
	Vacant	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	M	M			n/a						
DOUGLAS COUNTY	David Weaver/Vacant		absent	absent			n/a	n/a		n/a	E	E			0%	56%					
	Jamie Hartig	X	absent	absent	X	X	absent	X	X	absent	E	E			56%						
	Alison Biggs	X	X	X	X	X	X	X	X	X	T	T			100%	100%					
	Mike Acree										I	I			0%						
AURORA	Brad Pierce	X	X	X	X	X		X	X	X	N	N			89%	100%					
	Liia Koiv-Haus	X	X	X	X		X	X	X		G	G			78%						
CASTLE PINES	Melissa Coudeyras	X	X	X	X	X	absent	X		X	N	N			78%	89%					
	Ben Price						absent		X		O	O			11%						
CASTLE ROCK	Brett Ford	X					absent	absent		absent	M	M			11%	67%					
	Sandy Vossler		X	X	X	X	absent	absent	X	absent	E	E			56%						
CENTENNIAL	Candace Moon	X		X	absent	X	X	absent	X	X	E	E			67%	78%					
	Andrea Suhaka		X	X	absent		X	absent		X	T	T			44%						
CHERRY HILLS VILLAGE	Katy Brown	X	X	absent		X	X	absent	X	absent	I	I			56%	67%					
	Randy Weil			absent	X			absent		absent	N	N			11%						
FOXFIELD	Dave Goddard	absent	absent	absent	absent	absent	absent	absent	absent	absent	G	G			0%	0%					
	Vacant	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a					n/a						
GREENWOOD VILLAGE	Tom Dougherty	absent	X	X	X		X	absent	X		N	N			56%	78%					
	Karen Blilie	absent				X		absent		X	O	O			22%						
LONE TREE	S. Squyer/Mike Anderson 6/6/18	X	X	X	X	X	X	X	X	X	M	M			100%	100%					
	Jennifer Drybread										E	E			0%						
PARKER	Amy Holland	X	absent	absent	absent	X	X	X	X	X	E	E			67%	67%					
	Ryan McGee		absent	absent	absent						T	T			0%						
ACPAA	Robert Olislagers	X		X	X	X	X				I	I			56%	100%					
	Michael Fronapfel	X	X	X	X		X	X	X	X	N	N			89%						
AOPA	Robert Doubek	X	X	X	X	X	X	X	X	X	G	G			100%	100%					
	John Hirshman	X	X	X											33%						
CABA	Don Kuskie	X	X	absent	absent	X	X	X	X	X	N	N			78%	78%					
	Mike Straka			absent	absent						O	O			0%						
CDOT AERONAUTICS DIVISION	Todd Green	absent	absent	absent	absent	absent	absent	absent	absent	absent	M	M			0%	0%					
	Vacant	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	E	E			n/a						
FAA APA CONTROL TOWER	Diana Hanley Dennis Fria	absent	X		absent	absent	absent	absent	absent	absent	E	E			11%	22%					
	Ron Curry	absent		X df	absent	absent	absent	absent	absent	n/a	T	T			11%						
FAA DISTRICT OFFICE	Linda Bruce	absent	absent	absent	absent	absent	absent	absent	absent	absent	I	I			0%	0%					
	Kandace Krull	absent	absent	absent	absent	absent	absent	absent	absent	absent	N	N			0%						
FAA TRACON	Steve Martin	absent	absent	absent	absent	absent	absent	absent	absent	absent	G	G			0%	0%					
	Bill Dunn	absent	absent	absent	absent	absent	absent	absent	absent	absent					0%						
CACNR BYLAWS ADOPTED JUNE 6, 2010:																					
ARTICLE III.d. Members’ representatives/alternates are expected to attend all regular and special meetings. If a member’s voting representative or alternate does not attend at least 75% of such meetings, from April through March of the year following, the member will be notified for potential appointment of a replacement(s). A vacancy in the position of any member’s representative/ alternate shall be filled as soon as possible by that member.																					

MEMO

FROM: Alison Biggs, CACNR Secretary
TO: CACNR
RE: March CACNR Election

This is a reminder that the annual election of CACNR officers will take place at the March 6, 2019 meeting. The offices to be filled include:

Chair

Vice Chair

Secretary

Treasurer

Terms of office are one year, commencing at the close of the March meeting and continuing until the close of the March meeting in 2020.

The general duties of each office are included in Appendix II of the CACNR Bylaws, included below:

APPENDIX II

RESPONSIBILITIES OF CACNR MEMBERS, REPRESENTATIVES/ALTERNATES, AND OFFICERS

MEMBERS Members of CACNR will:

1. appoint their representatives and alternates, or their replacements, in a timely fashion;
2. understand and support the objectives and activities of CACNR;
3. communicate with CACNR through their representatives/alternates.

REPRESENTATIVES/ALTERNATES: All members' representatives/alternates to CACNR will:

1. coordinate with each other to assure their member's representation at all CACNR meetings;
2. become familiar with the agenda and other meeting materials prior to each meeting;
3. assure confidentiality of designated information shared during CACNR meetings;
4. support the work of CACNR through active participation in the formation and implementation of CACNR's Work Program;
5. present new or differing ideas in a cooperative, respectful and objective manner;
6. assume responsibilities related to the CACNR Work Program as requested by the Chair.

CHAIR The Chair of CACNR will:

1. chair all regular and special meetings of CACNR, and coordinate with the Vice Chair if unable to be present at any meeting;
2. assure business of CACNR is conducted in accordance with Robert's Rules of Order Newly Revised;
3. assure business of CACNR is conducted with decorum and with respect for differing points of view;
4. notify any member whose representative(s) or alternate(s) have not attended at least 75% of CACNR meetings as established in Article III d. of the bylaws, or have behaved in a manner detrimental to the advancement of CACNR's Work Program or have displayed disruptive or rude behaviors, documenting such absences or behaviors, and requesting replacement of that representative or alternate;
5. represent CACNR to the general public and at outside functions as appropriate;
6. coordinate CACNR activities with Centennial Airport, the FAA, and any other appropriate agencies or organizations;
7. oversee implementation of the CACNR Work Program and develop plans to advance its various components;
8. as necessary, appoint committees to address the various matters relating to CACNR's Work Program;
9. upon the resignation of any officer, appoint a replacement to fill the unexpired term, subject to the approval of CACNR's voting representatives;
10. upon the absence of the Secretary at any meeting, appoint a temporary replacement for that meeting;
11. sign CACNR checks;
12. determine the time and place for any special meeting requested by at least 25% of the voting representatives;

13. prepare the agenda for all regular and special meetings, in coordination with Centennial Airport staff;
14. in coordination with the Treasurer, prepare a CACNR budget for approval of the voting representatives;
15. assume other responsibilities and tasks as directed by the members' representatives.

VICE CHAIR The Vice Chair of CACNR will:

1. perform the duties of the Chair in her/his absence;
2. work closely with the Chair to develop and implement plans to advance CACNR's Work Program;
3. assist the Chair in monitoring the implementation of the CACNR Work Program;
4. sign CACNR checks in the absence of either the Chair or the Treasurer;
5. assume other responsibilities and tasks as requested by the Chair or as directed by the members' representatives.

SECRETARY The Secretary of CACNR will:

1. be accountable for taking and processing minutes of each regular and special meeting of CACNR;
2. record meeting attendance at each regular and special meeting of CACNR;
3. coordinate with airport staff to assure maintenance of the CACNR archives;
4. assure the records of all meetings are available to the members' representatives and to the general public;
5. assume responsibility for maintaining and updating the CACNR Work Program;
6. provide for notice of the annual review and updating of the CACNR Work Program as required by the bylaws;
7. receive any written, proposed amendments to the bylaws, confirm such amendments have been provided by at least 25% of the members' voting representatives, and provide electronic notification of the proposed amendments to the CACNR members' representatives at least 72 hours in advance of the next meeting.
8. sign CACNR checks in the absence of either the Chair or the Treasurer;
9. assume other responsibilities and tasks as requested by the Chair or as directed by the members' representatives.

TREASURER The Treasurer of CACNR will;

1. serve as the principal finance officer of CACNR;
2. monitor and provide oversight for CACNR funds and expenses;
3. in coordination with the Chair, prepare a CACNR budget for approval of the voting representatives;
4. provide financial reports to CACNR at every regularly scheduled meeting, and as otherwise requested;
5. sign CACNR checks;
6. Assume other responsibilities and tasks as requested by the Chair or as directed by the members' representatives.