



Airport Community Consultative Committee

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March 7, 2018



Agenda



- 6:30 p.m. Welcome & Introductions
- 6:35 p.m. 2017 Annual Noise Report
- 6:50 p.m. Aircraft Operations
- 7:00 p.m. Runway Use Trial update
- 7:10 p.m. Spring-Summer Construction
- 7:20 p.m. NAV CANADA procedures review
- 7:10 p.m. NMT Update
- 7:30 p.m. Q&A

Annual Noise Report

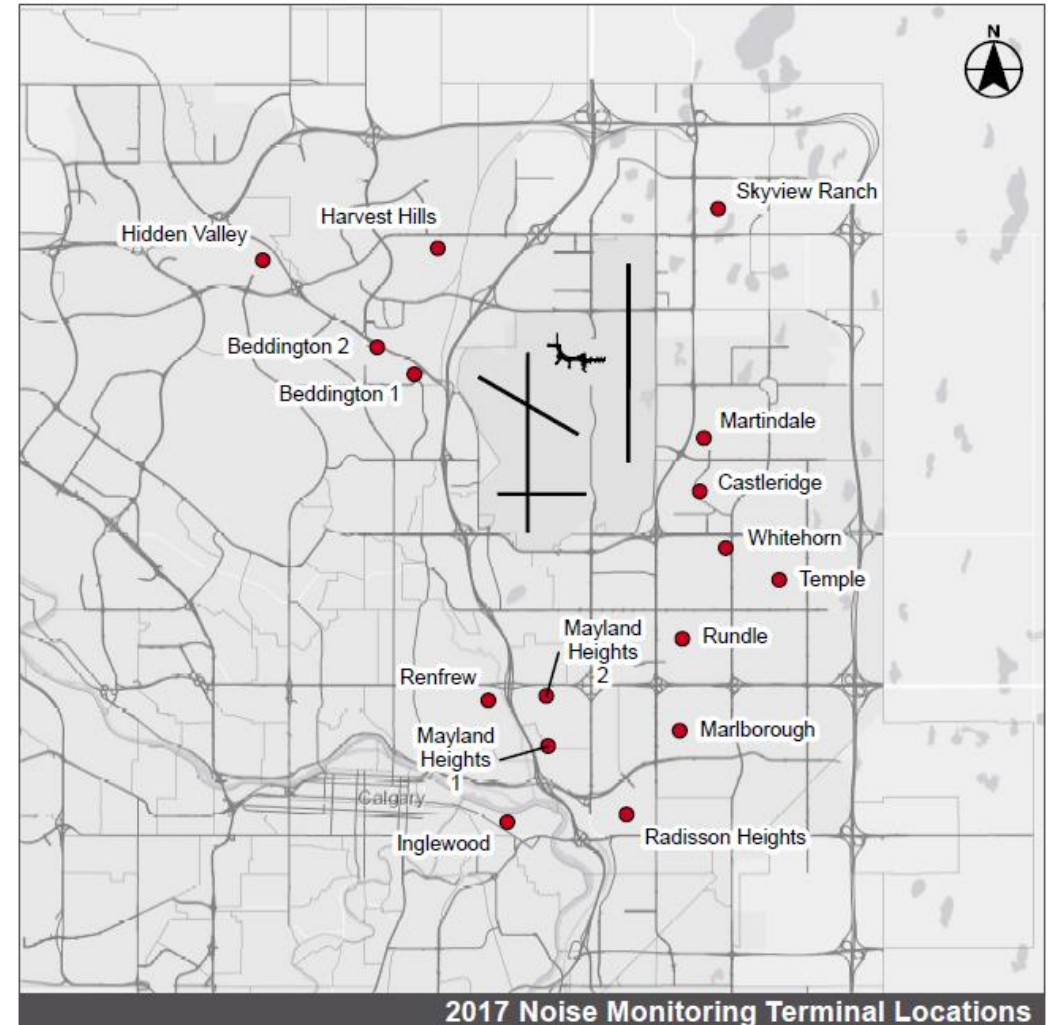
2017



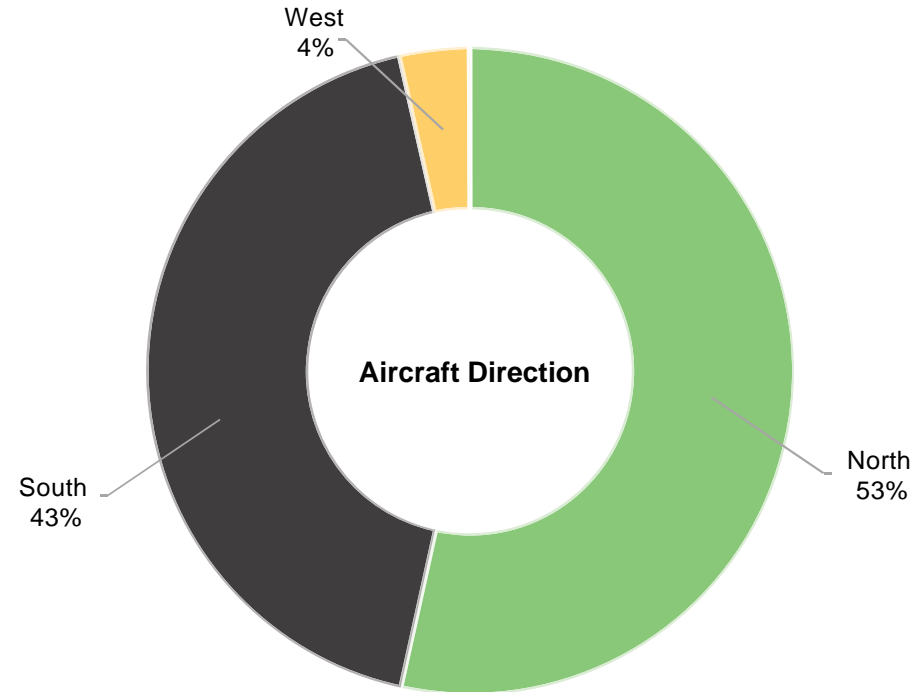
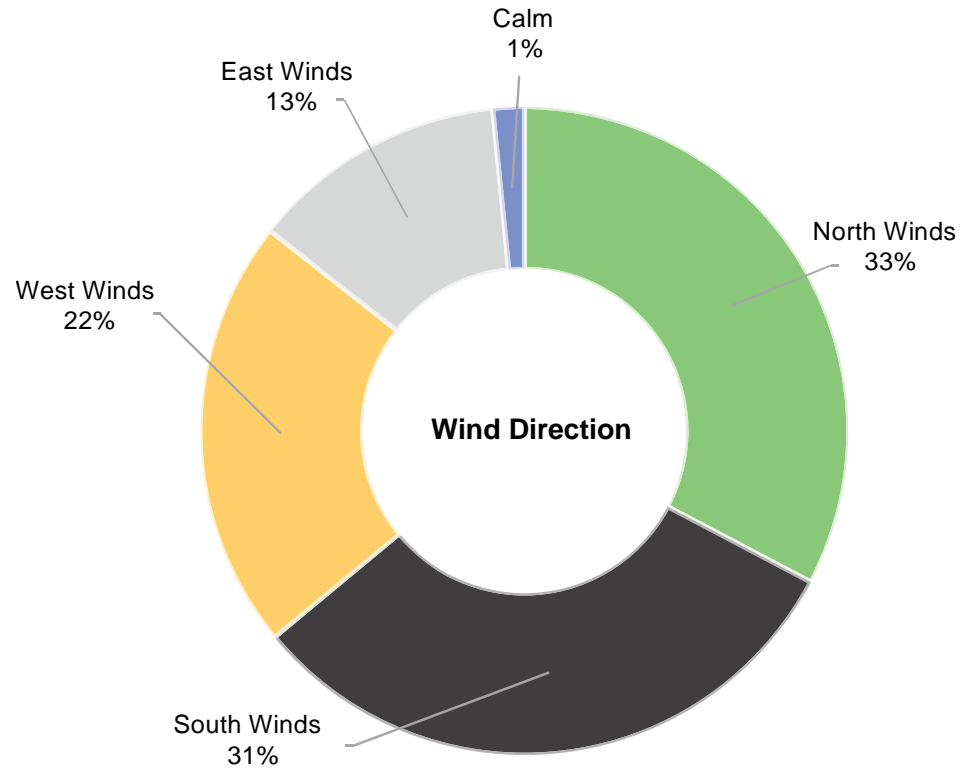
2017 Highlights



- Runway Usage Trial
- Long-Term Noise Monitor Installation for south departures
- Noise Monitoring Terminal (NMT) Network review

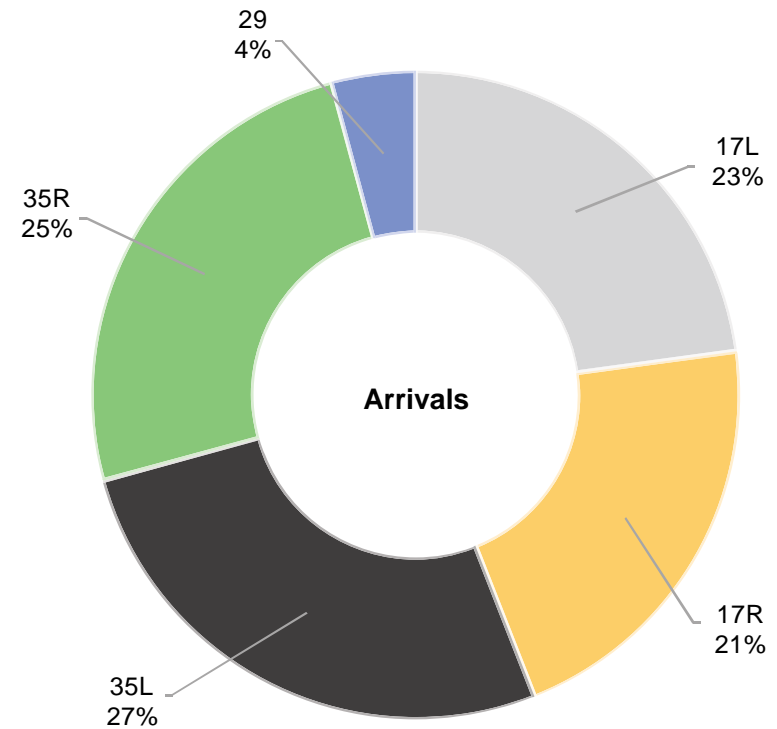
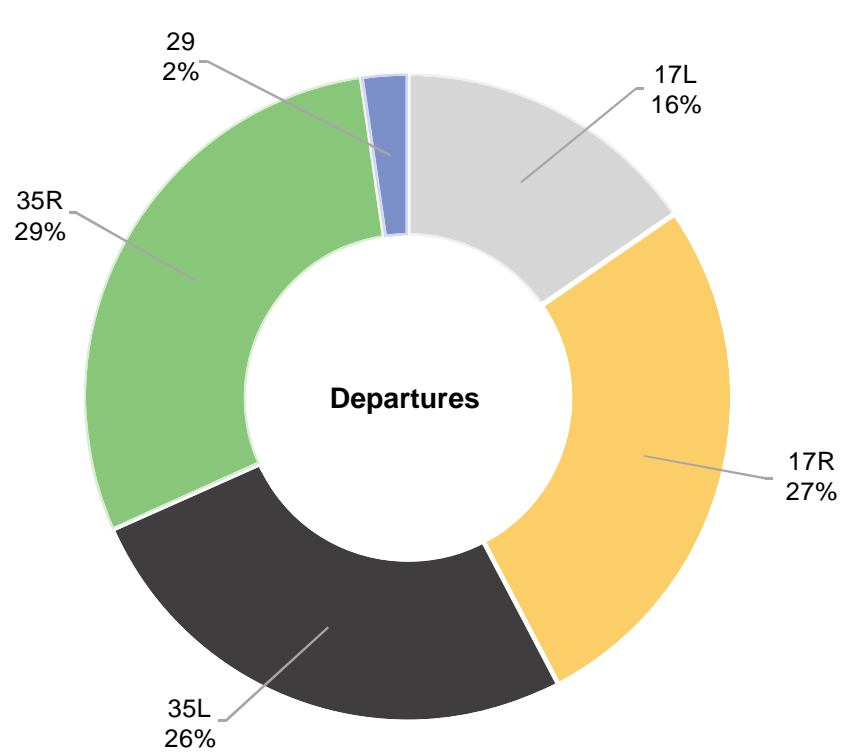


Operational Data: Runway Use



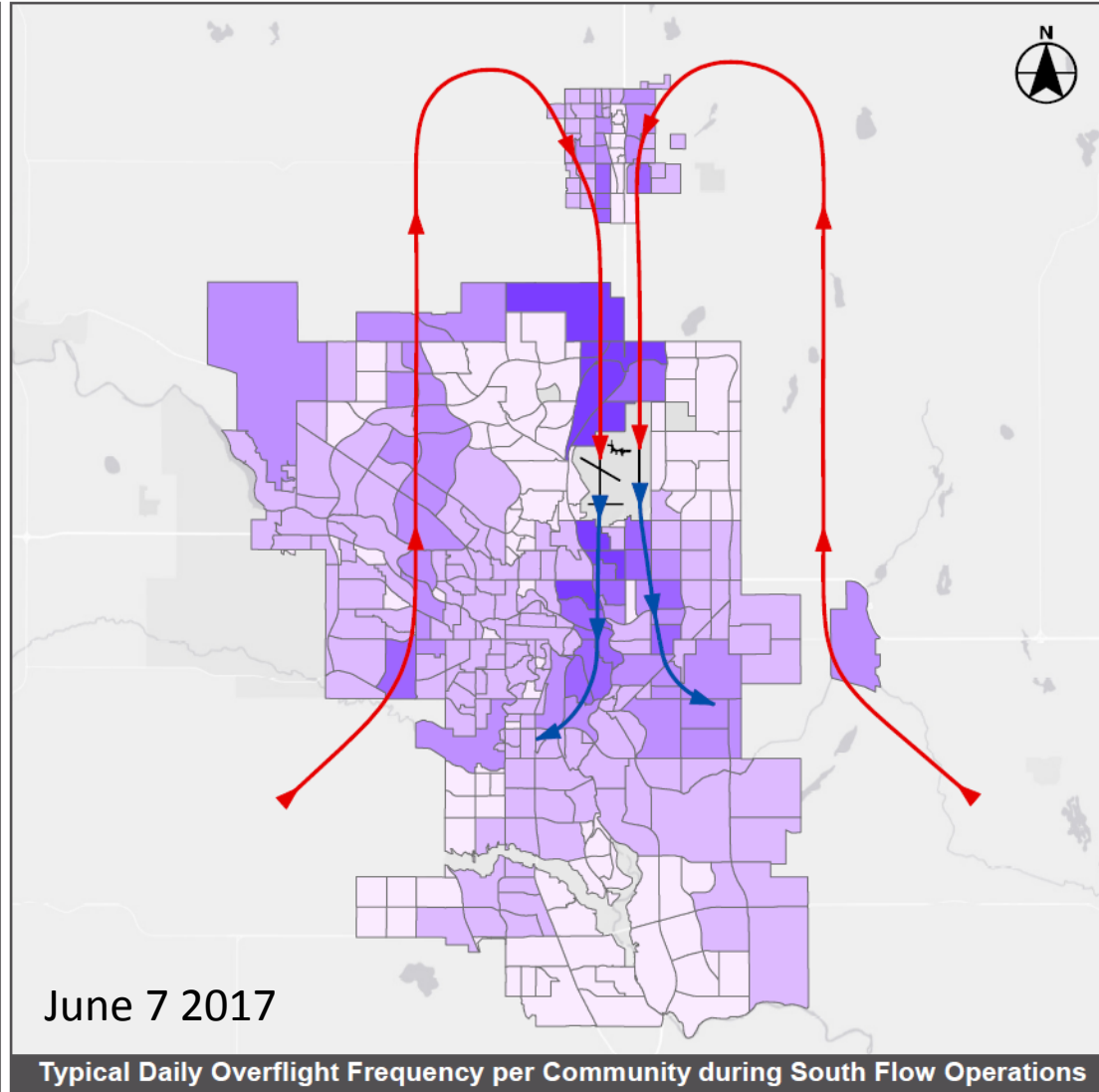
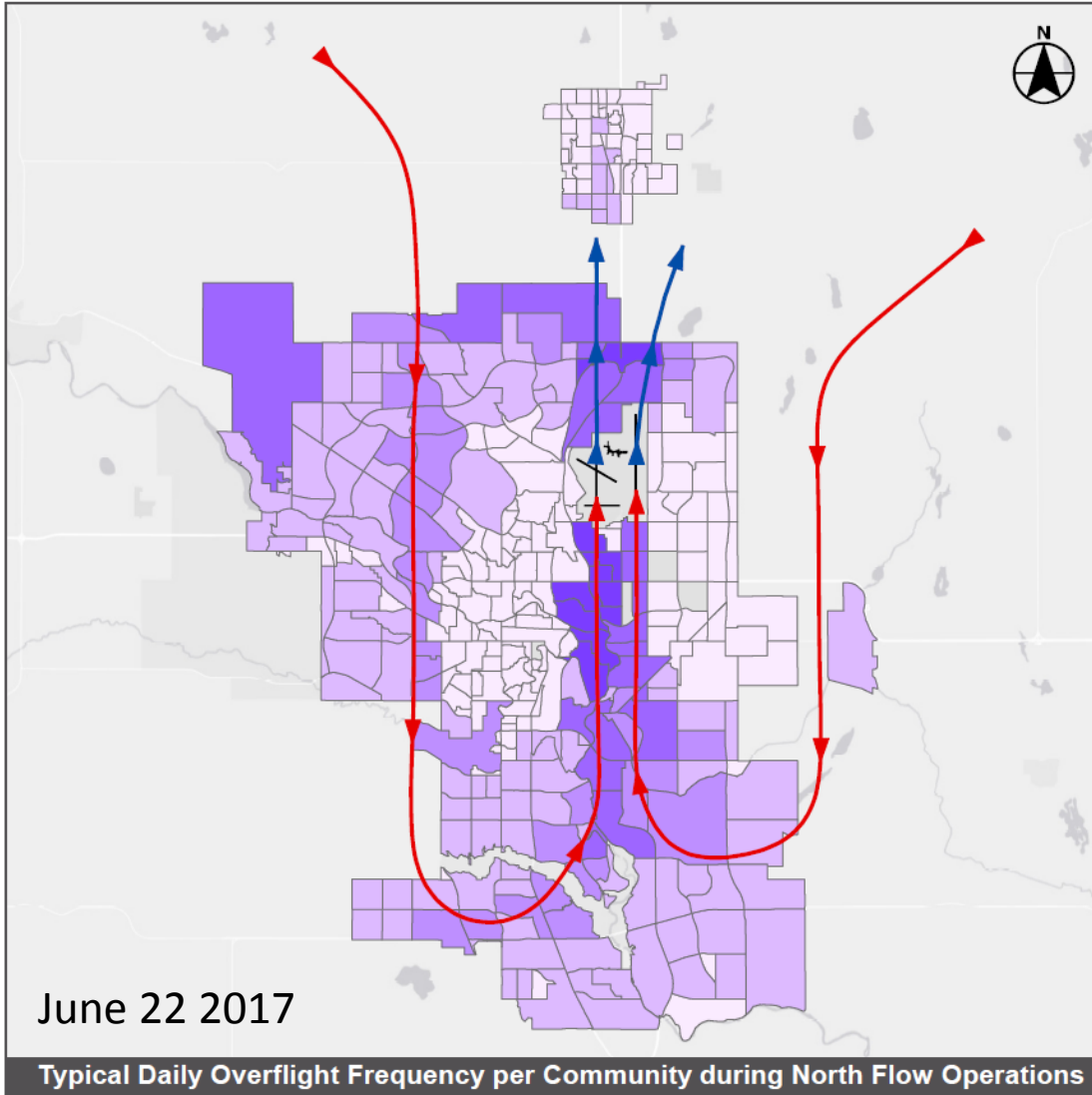
- 224,576 aircraft movements in 2017
- There was a high percentage of westerly and easterly winds in comparison with 2016

Operational Data: Runway Use



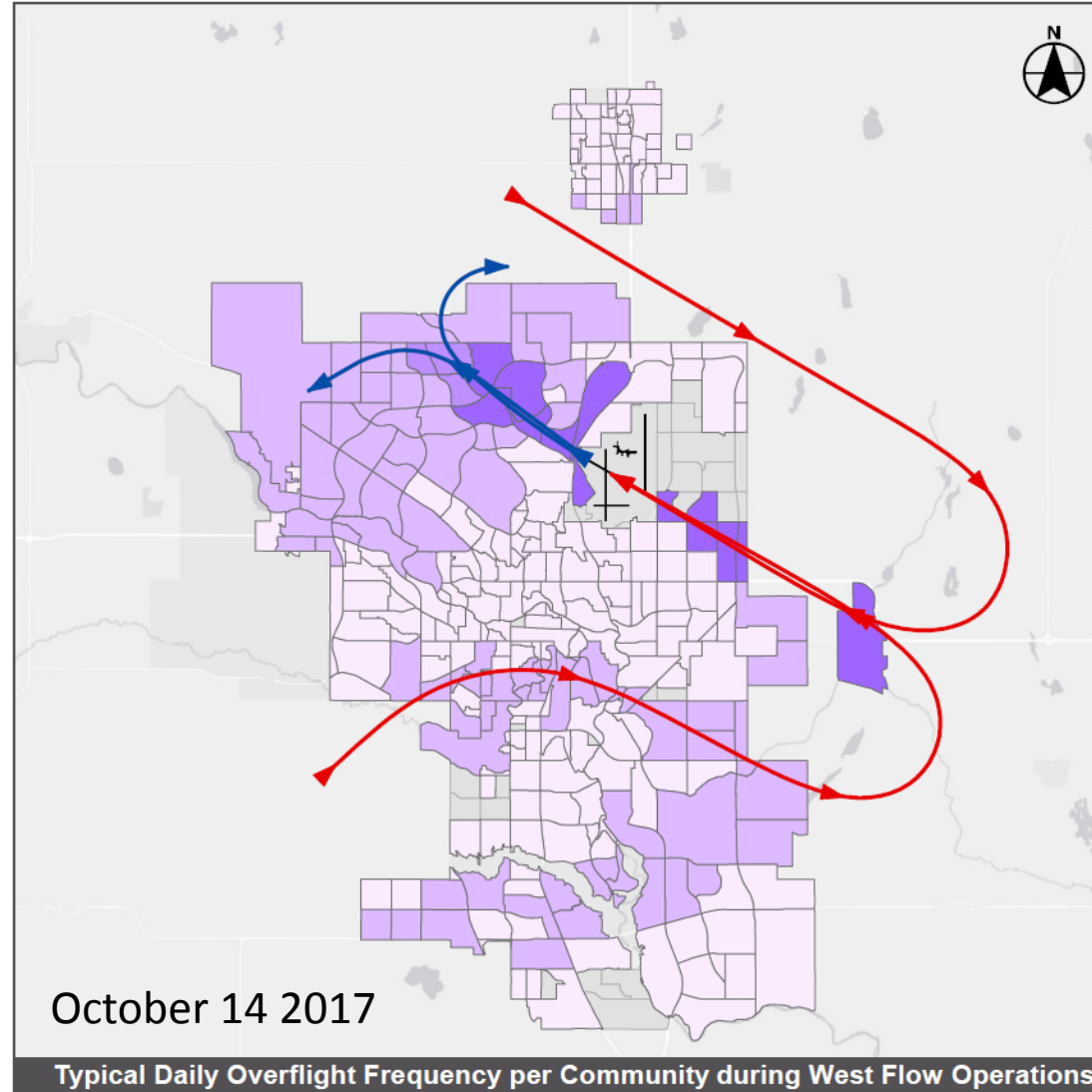
- Annual maintenance and pavement repairs spanned approximately 14 weekends from May until October

Operational Data: Flight Frequency



- Legend**
- Typical Departures
 - Typical Arrivals
 - Number of Flights**
 - 1 - 10
 - 11 - 50
 - 51 - 100
 - 101 - 200
 - >200
 - Communities

Operational Data: Flight Frequency

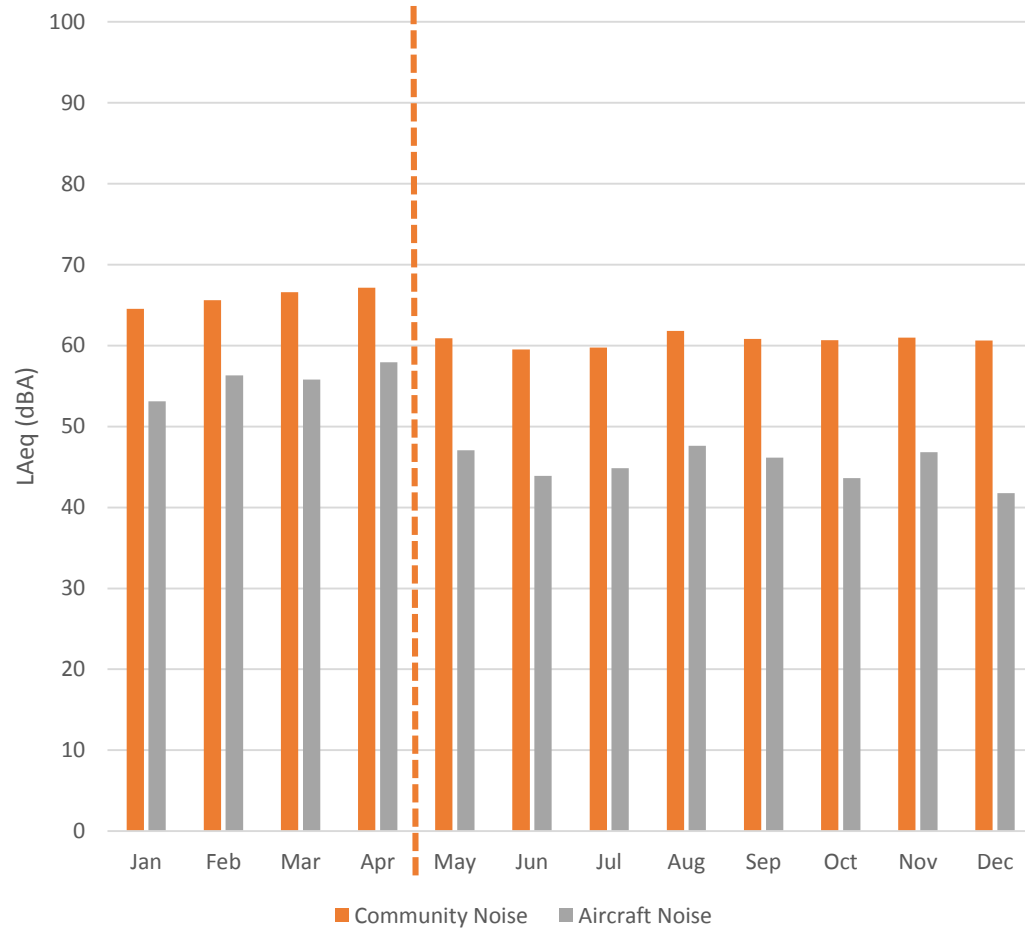


Note: 70% of flights shown

Noise Monitoring Terminals

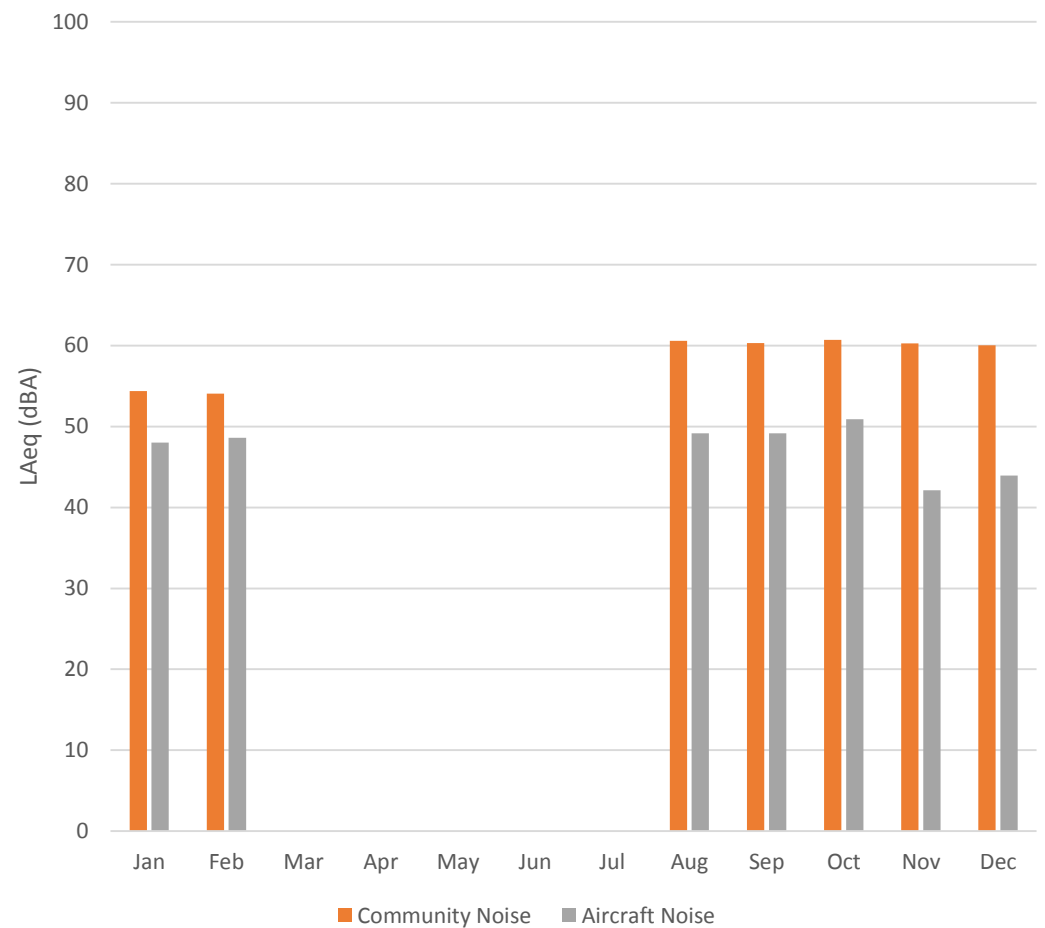


Monthly Noise Levels



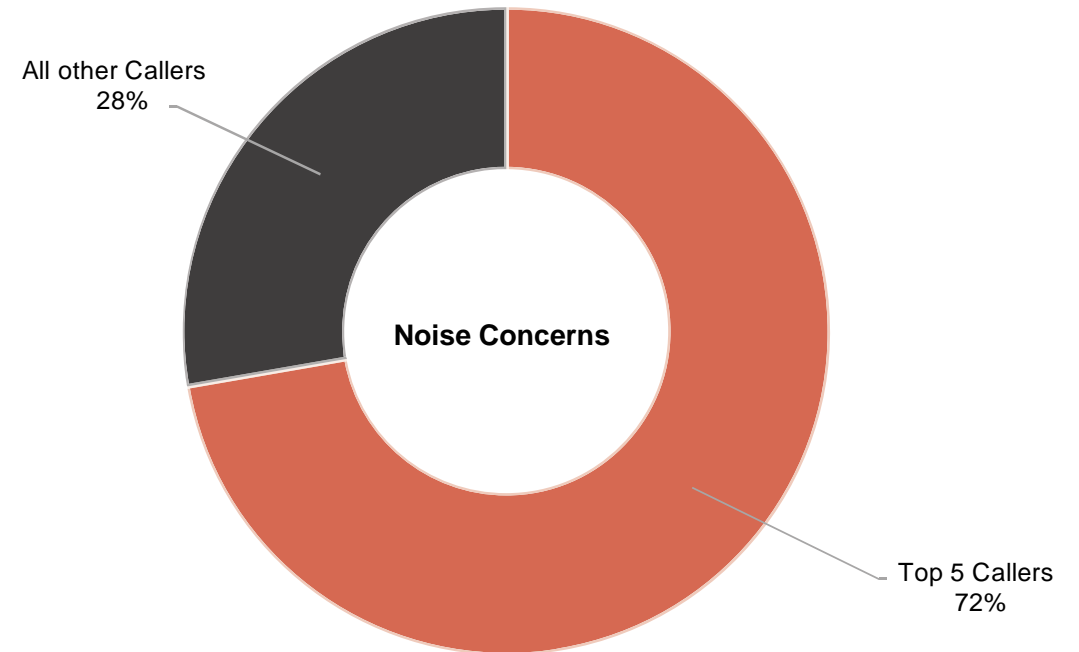
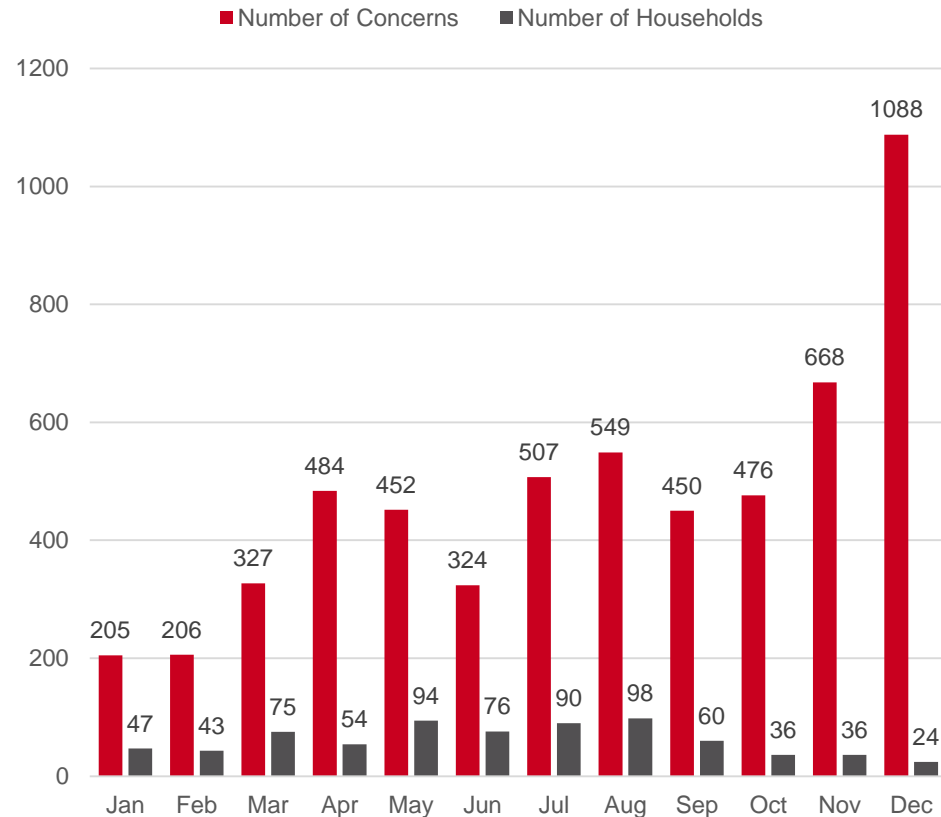
RENFREW

Monthly Noise Levels



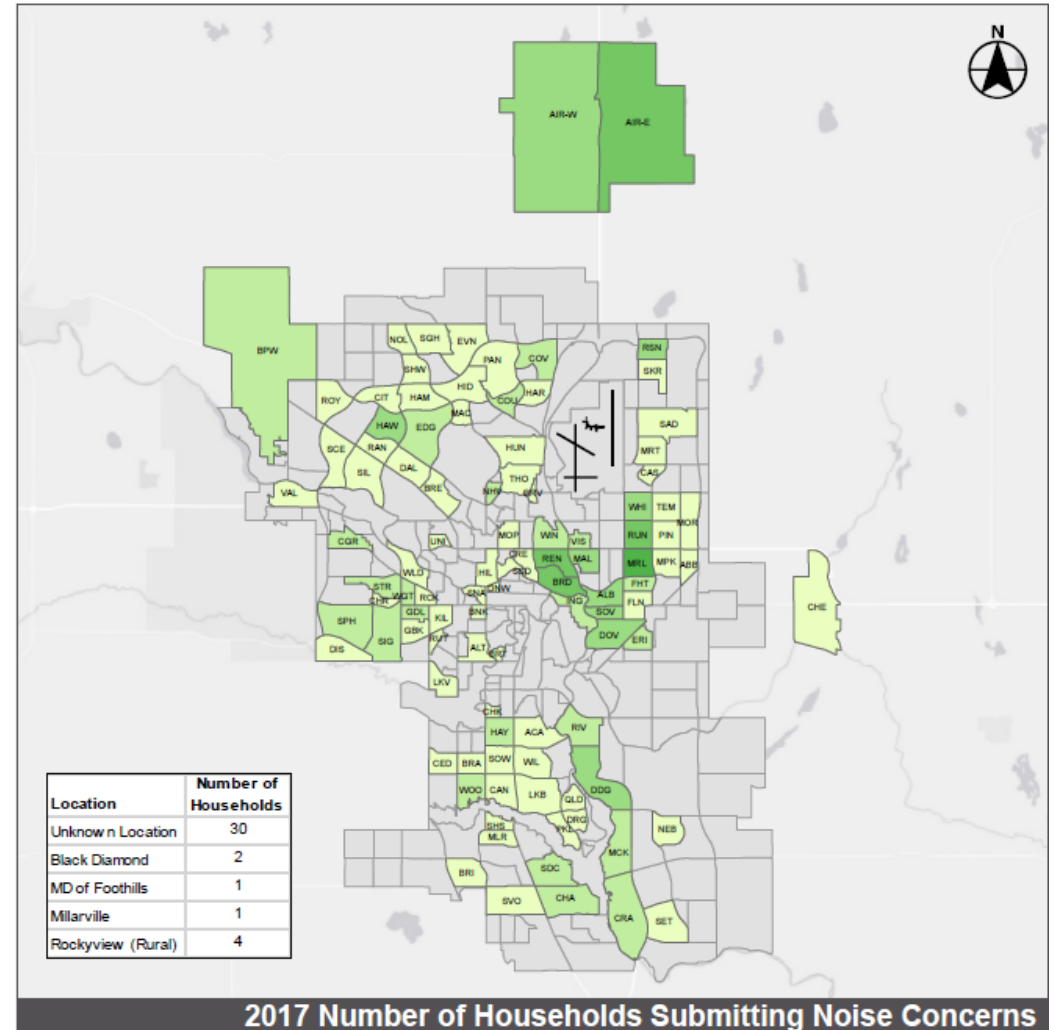
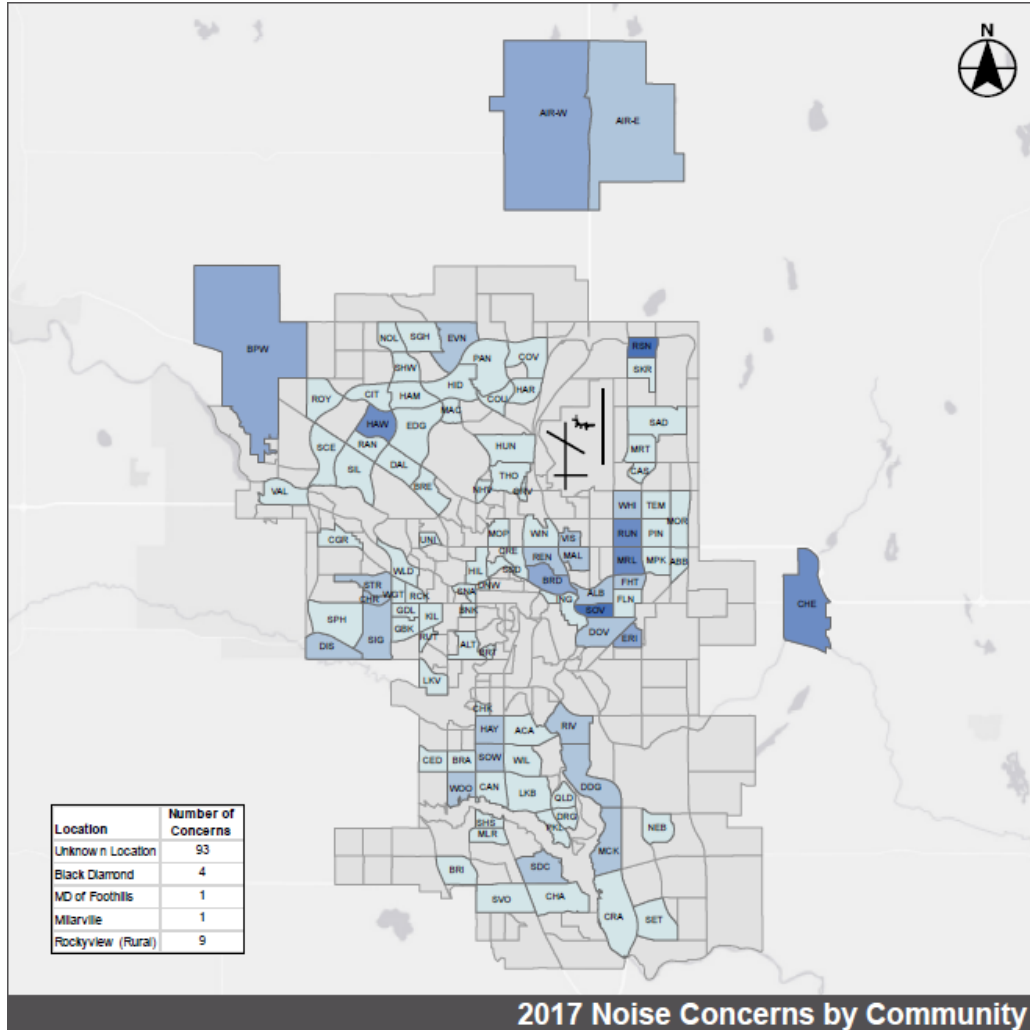
MARLBOROUGH

Noise Concerns



- Total # of concerns decreased by 11%
- Two individuals submitted over 1,000 complaints each making 48% of the total concerns

Noise Concerns

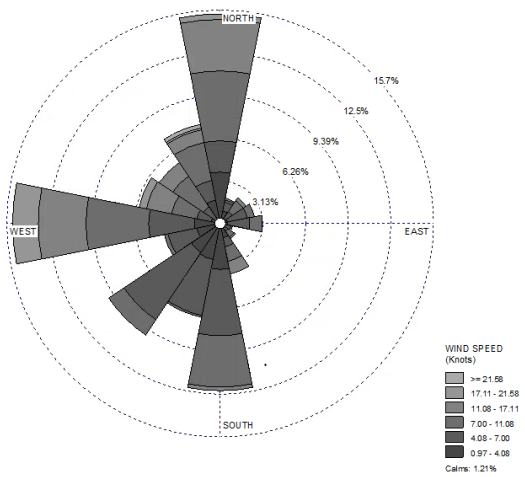
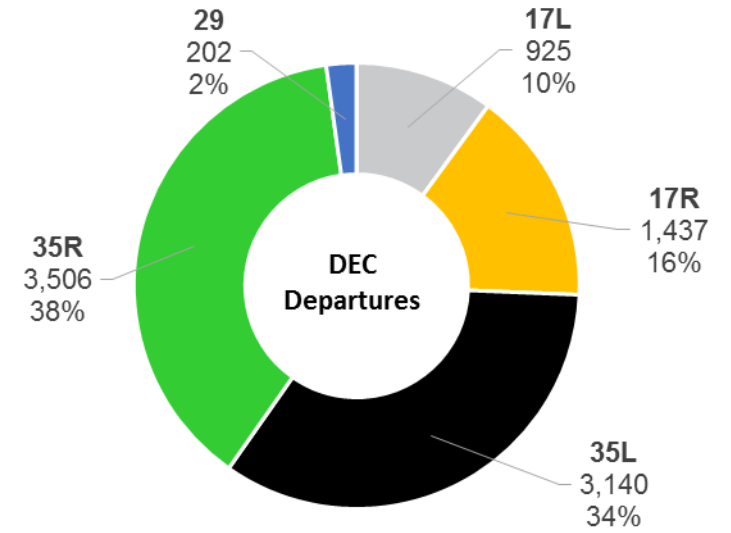
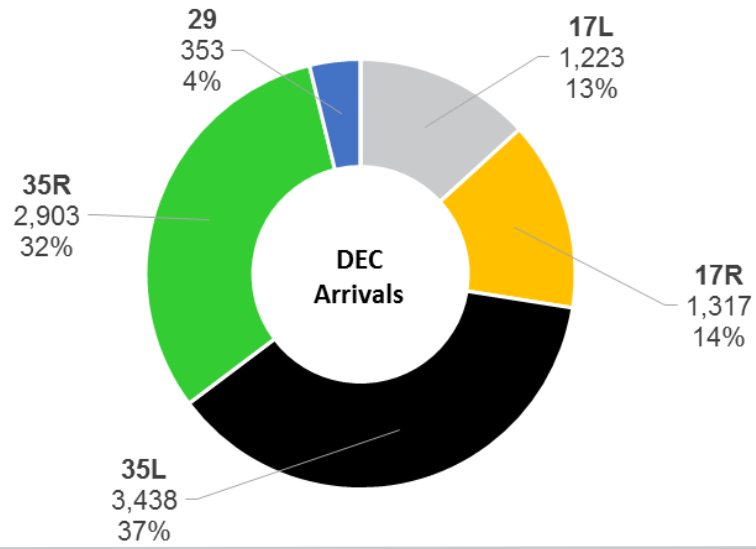
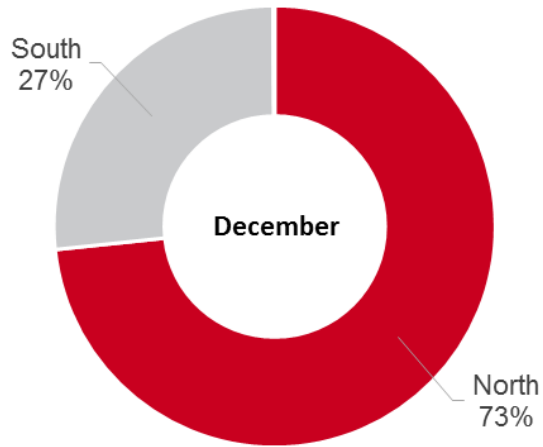


Aircraft Operations

December 2017 – February 2018

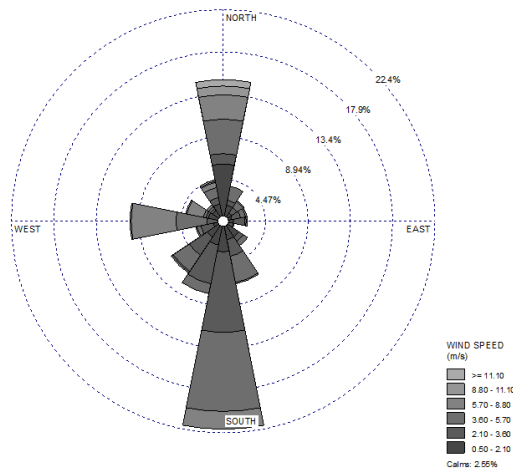
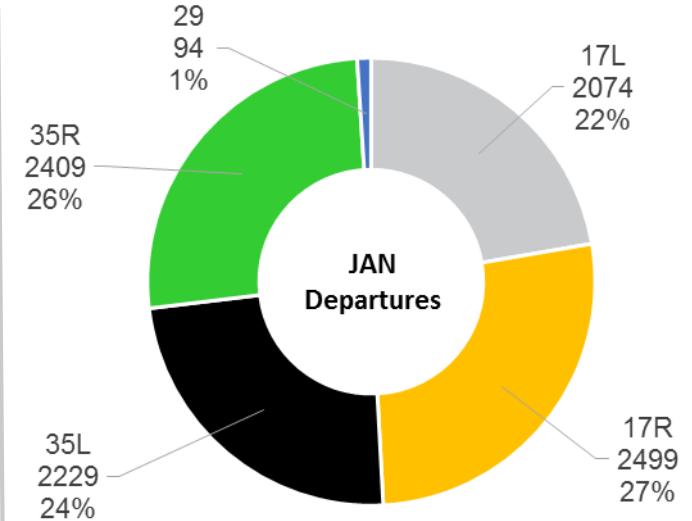
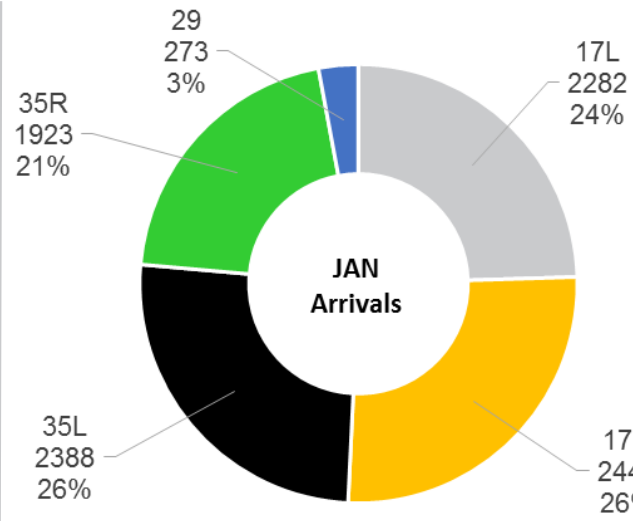
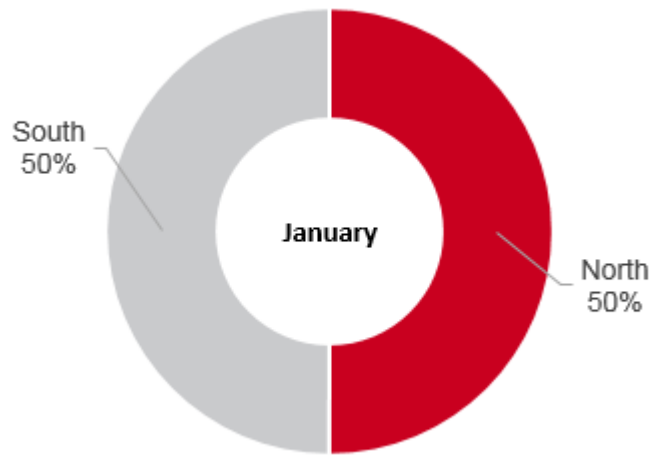


2017 Q4: December



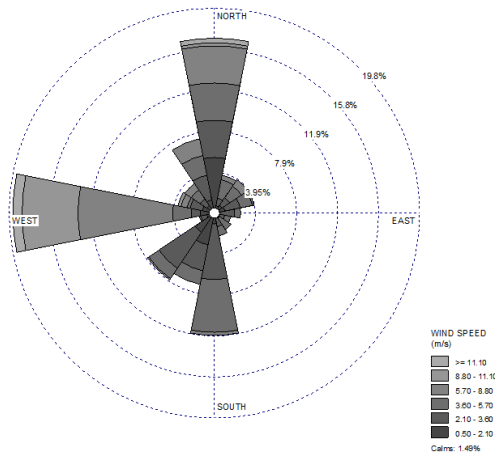
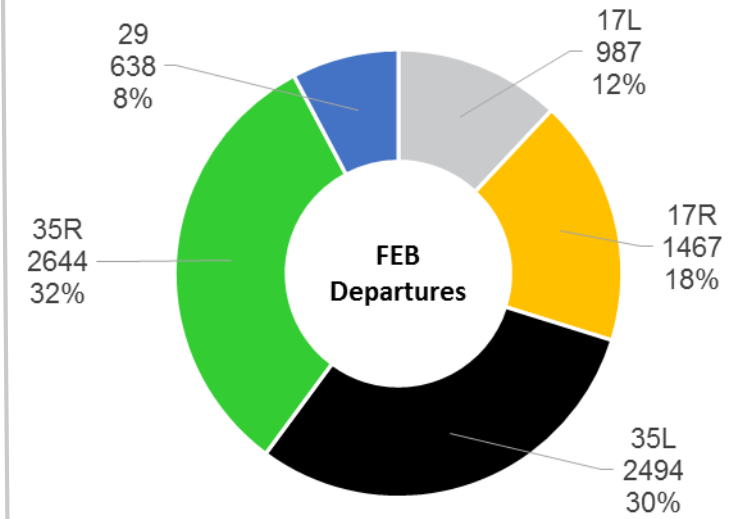
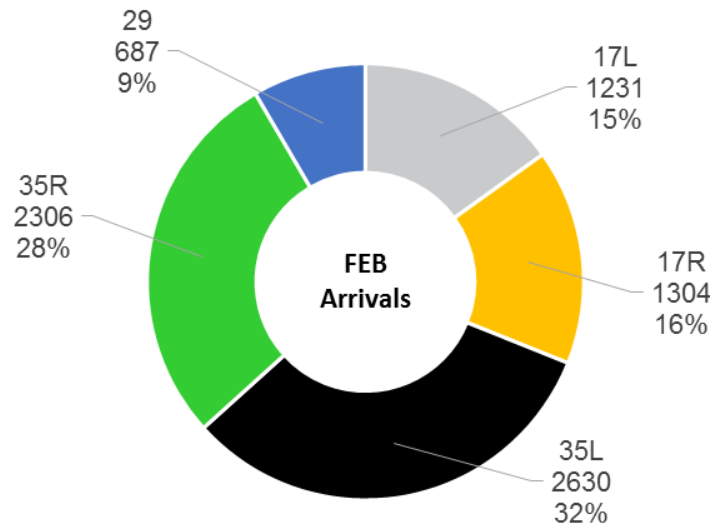
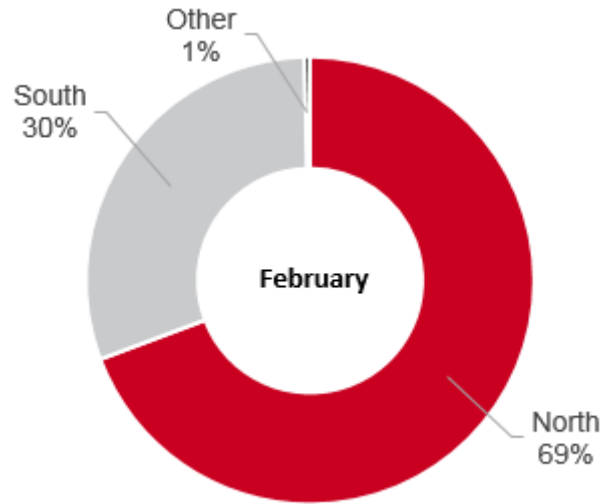
- Typical winter conditions, more north flow operations

2018 Q1: January



- Generally balanced use of all runways

2018 Q1: February



- Increased west winds in February resulted in higher use of Runway 29
- Higher use on Runway 35L and 35R due to north winds

Runway Use Trial

Update



Summary



Why?

- Improve the balance of aircraft departures of the southerly runways (17L and 17R) over the weekends without compromising safety

What?

- Alternating the use of our primary departure runway during non-peak traffic periods, when south flow operations are active between 6:00 a.m. and 11:00 p.m.:
 - The east runway (17L) - odd weekend days
 - The west runway (17R) - even weekend days

October 2017 to Date



Oct-17							Nov-17							Dec-17						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9 Thanks Giving	10	11	12	13	14 17R	5 17L	6	7	8	9	10	11 17L	3 17L	4	5	6	7	8	9 17L
15 17L	16	17	18	19	20	21 17L	12 17R	13	14	15	16	17	18 17R	10 17R	11	12	13	14	15	16 17R
22 17R	23	24	25	26	27	28 17R	19 17L	20	21	22	23	24	25 17L	17 17L	18	19	20	21	22	23 17L
29 17L	30	31					26 17R	27	28	29	30			24 17R	25	26 Boxing Day	27	28	29	30 17R
														31 17L	Christmas					

Jan-17							Feb-17							Mar-17						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 New Year	2	3	4	5	6 17R					1	2	3 17L					1	2	3 17L
7 17L	8	9	10	11	12	13 17L	4 17R	5	6	7	8	9	10 17R	4 17R	5	6	7	8	9	10 17R
14 17R	15	16	17	18	19	20 17R	11 17L	12	13	14	15	16	17 17L	11 17L	12	13	14	15	16	17 17L
21 17L	22	23	24	25	26	27 17L	18 17R	19 Family Day	20	21	22	23	24 17R	18 17R	19	20	21	22	23	24 17R
28 17R	29	30	31				25 17L	26	27	28				25 17L	26	27	28	29	30	31 Good Friday

Trial active
 Trial inactive

Out of the possible 42 days to date, only 21 days had the trial active

Next Steps



- Extend trial for a full year – until Sunday, October 14, 2018
 - Warm winds from the south during Summer will likely mean more departures on 17L and 17R
 - Get better percentage of days on trial
- Evaluate the results
 - Runway utilization
 - Safety reports
 - Stakeholder feedback

Spring-Summer Construction

2018



Taxi Alfa & Taxi Charlie



- **Taxi A** – 11/29 runway closure (Crosswind)
 - One-weekend construction time
- **Taxi C** – 8/26 runway closure
Access to Runway 35L
 - Two-weekend construction time
- Construction will take place between May and June



NAV CANADA Procedures

Review Process



Review Process



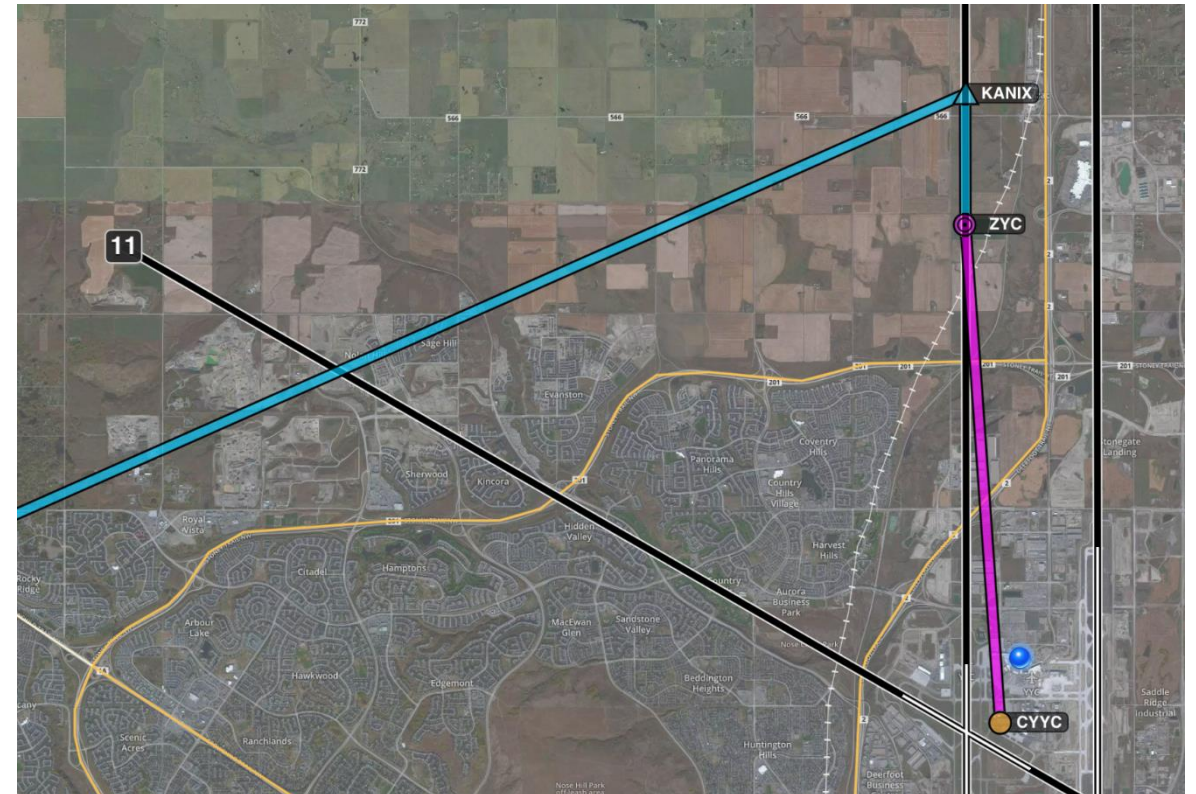
- NAV CANADA conducts regular audits to the existing departures and arrival procedures.
- Rescinding procedures that no longer meet criteria is a safety requirement.
- YYC, NAV CANADA and Airline Partners collaborate to look at options that minimize the community noise impacts.



UKSAP ONE & PIGEON TWO SIDs



- In a recent review two **Standard Instrument Departures** (SID) were found non-compliant.
- The two SIDs were used to direct traffic departing from runways 35 Right/Left and 29.
- Designed for night-time cargo departures and were used mainly by Metroliner aircraft.
- Utilization of the procedures was very low, with fewer than five aircraft, in total, per day using the procedures.
- These SIDs no longer meet Transport Canada design criteria (TP308) and, as a result, are scheduled to be revoked in September 2018.



NMT Updates



Equipment Status



- All noise monitors will be calibrated again in 2018
- We are evaluating new equipment options and developing a 5 year replacement plan.

Roving NMT Program



- Roving NMT program will run from May to September of each year.
- Each location will be monitored for 4-weeks (with on week of maintenance in-between locations)
- The idea is to cover the existing permanent noise monitoring gaps:
 - Signal Hill
 - Hawkwood
 - Riverbend
 - East Airdrie
 - Chestermere (weather permitting)
- Next step is identify locations with the assistance of the Community Association and Committee Representative

Meeting Schedule

2018



Quarterly Meetings



- Wednesday June 6
- Wednesday September 12
- Wednesday November 28

Q&A

