



Airport Community Consultative Committee

December 12, 2017



Agenda



- 6:30 p.m. Welcome & Introductions
- 6:35 p.m. Runway Use Trial update
- 6:45 p.m. Aircraft Operations (Aug-Nov)
- 6:55 p.m. Night-time operations 101
- 7:10 p.m. NMT updates
- 7:25 p.m. Committee member confirmation
- 7:30 p.m. Q&A

Runway Use Trial

Update



Runway Use Trial - 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

When?

- Saturday, October 14, 2017, until Saturday, April 14, 2018 - six (6) months

Runway Use Trial - weekends to date



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

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

- Oct 14 – construction
- Oct 15 – construction
- Oct 21 – construction
- Oct 22 – construction
- Oct 29 – north operations (35L & 35R)

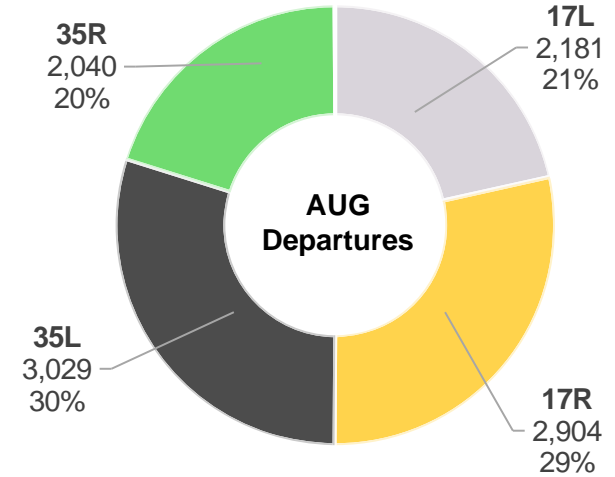
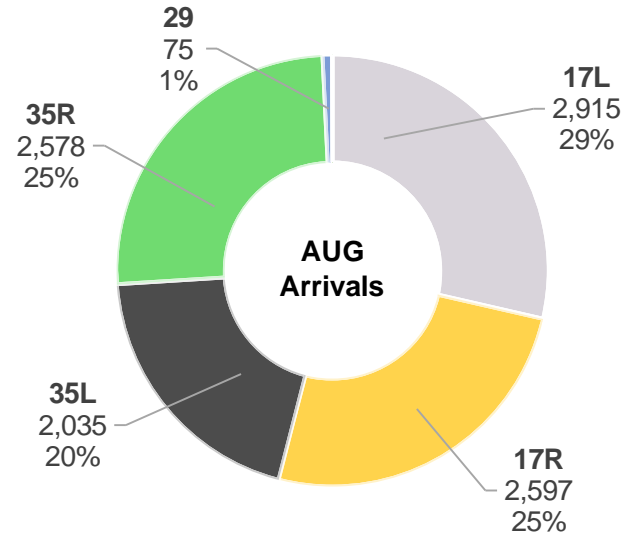
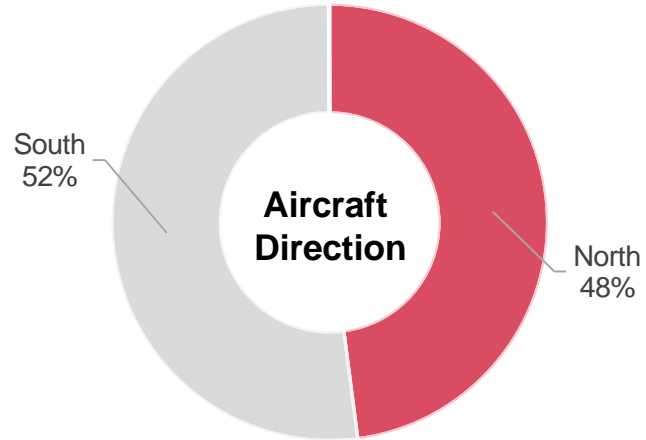
- Nov 4 – north operations (35L & 35R)
- Nov 5 – north operations (35L & 35R)

Aircraft Operations

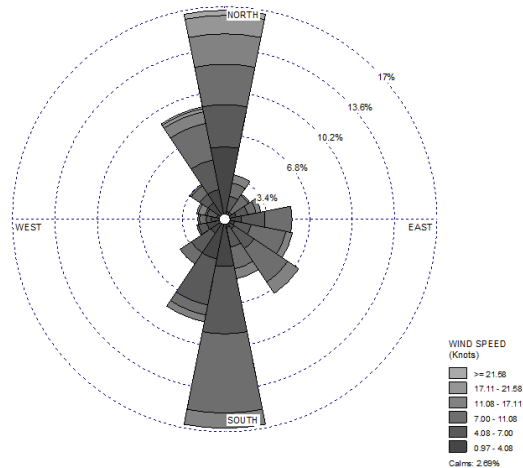
August – November 2017



2017 Q3: August

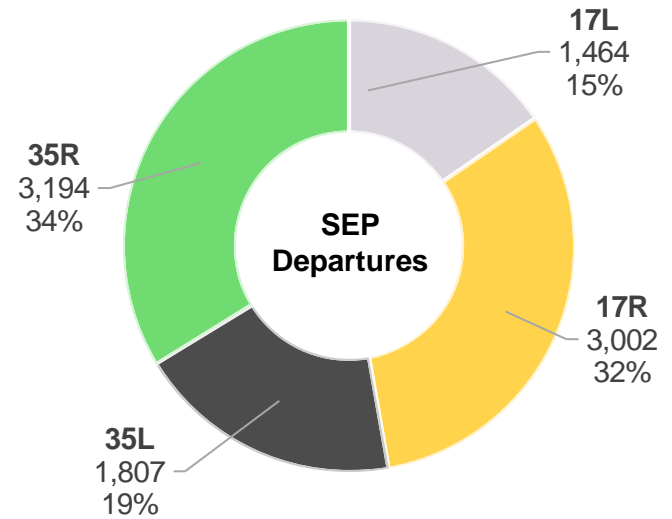
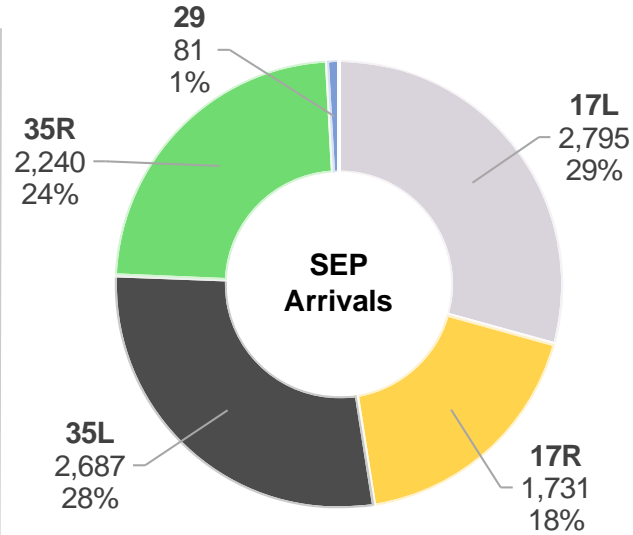
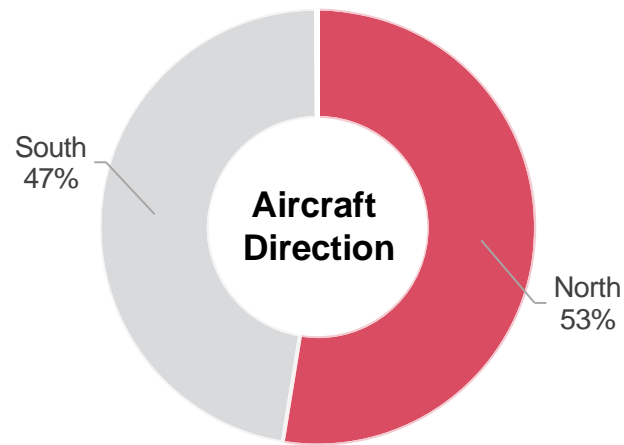


Wind Rose

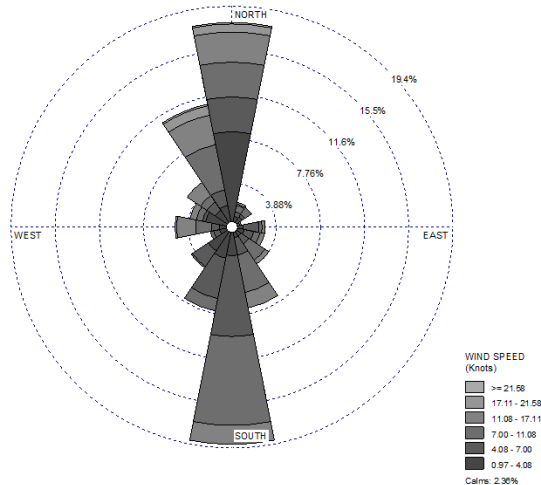


- Paving and rehabilitation work on runways 11/29 and 17R/35L (mid to late August)

2017 Q3: September

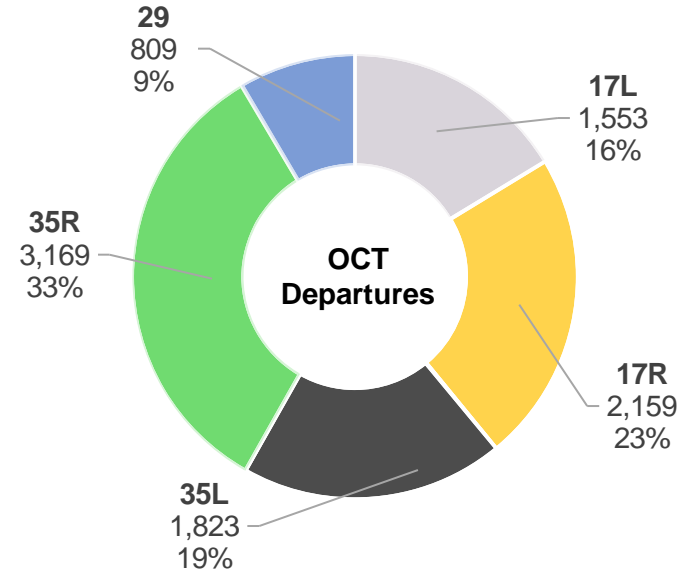
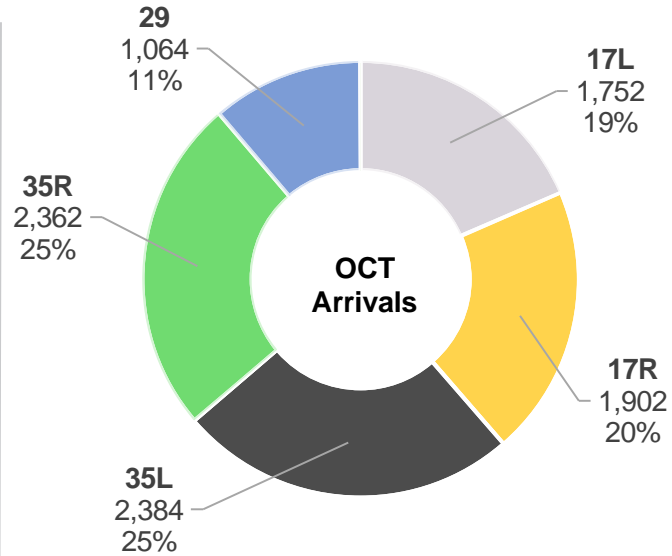
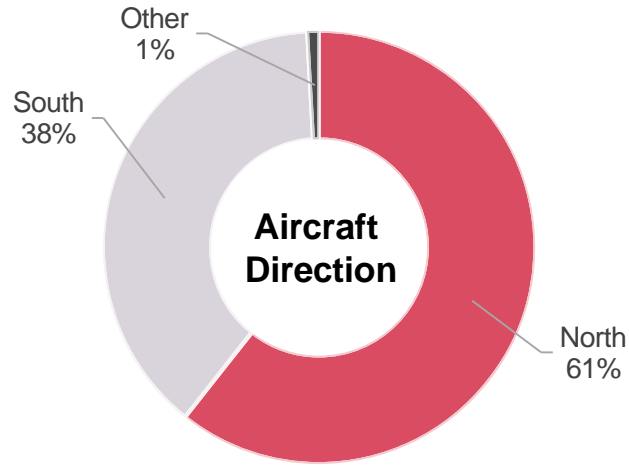


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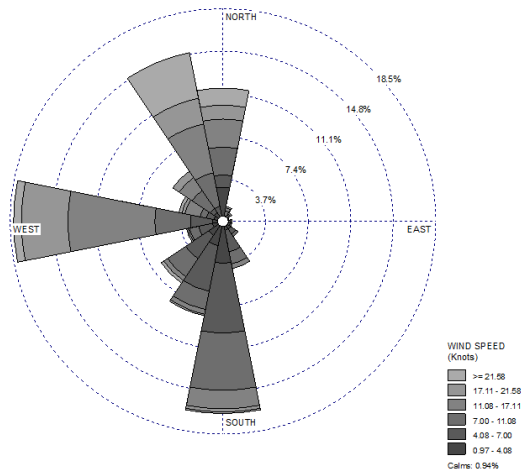


- Paving and rehabilitation work on runways 11/29 and 17R/35L

2017 Q4: October

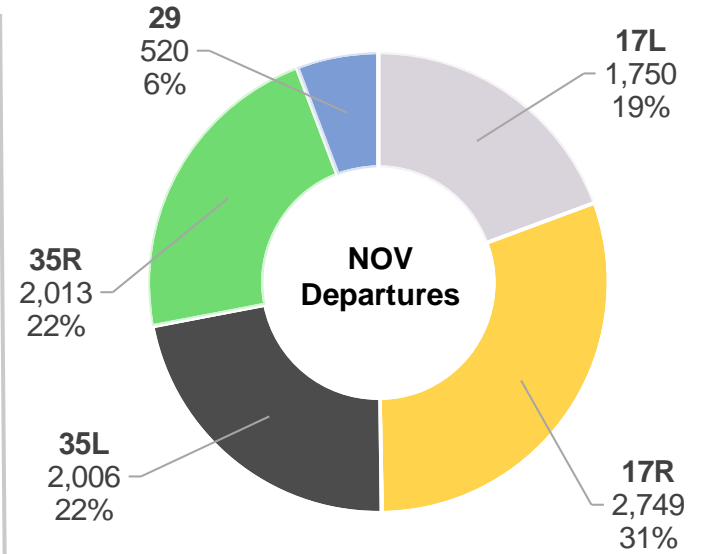
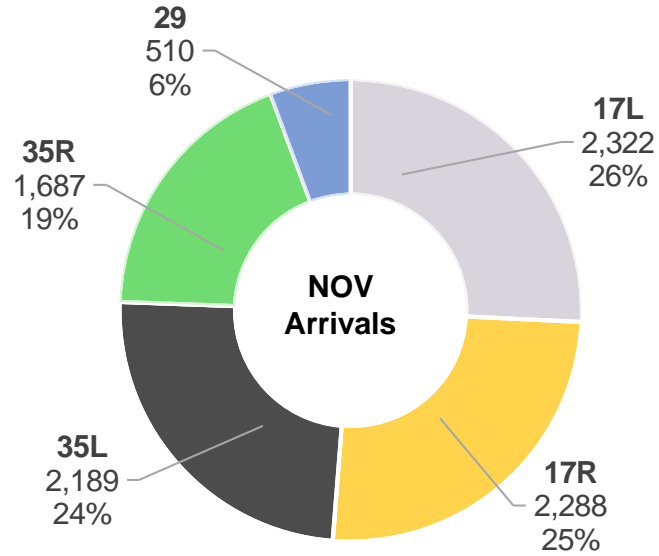
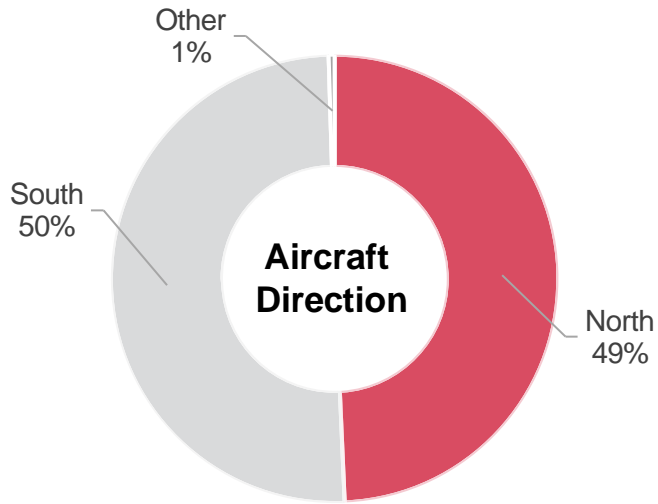


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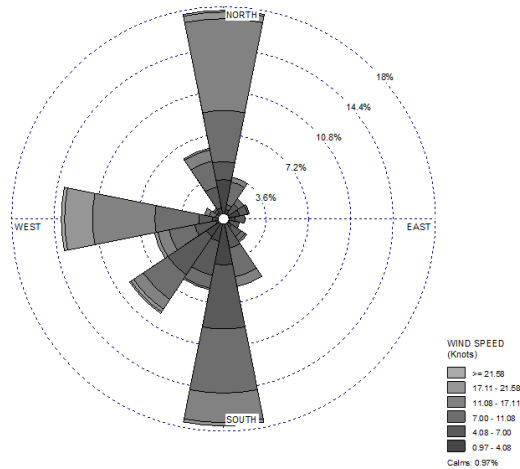


- Paving and rehabilitation work on runways 11/29 and 17R/35L

2017 Q4: November



Wind Rose



- Regular operations

Night-time Operations



Night-time Operations



- YYC Calgary International Airport operates 24 hours/day, with the earliest and latest departures dependent on the air carriers' schedules
- While most night-time traffic is related to cargo and courier operations, there are some passenger services.
- Most cargo and courier operations occur at night-time to meet their delivery schedules for the next business day.



Night-time Operations



CYJC-NOR-1 CALGARY INTL AB
CYJC

NOISE ABATEMENT PROCEDURES

Application
These procedures apply to JET AIRCRAFT unless noted otherwise.

Preferential Runways (All Aircraft)
ATC will designate runways to divert as many take-offs as possible, consistent with safety of operations, from flight over residential areas adjacent to the airport. Use of other than designated runways should only be requested to meet operational necessity.

Taking into consideration the following conditions and except as authorized by ATC, all aircraft will use the following preferential runways:

All Aircraft		
Operation	Local Time	Preferential Runway
ARRIVALS		
	Monday-Friday 06:00-07:00	35R
	Monday-Friday 07:00-23:00 Saturday-Sunday 09:00-23:00	35L, 35R
	Monday-Friday 23:00-06:00 Saturday-Sunday 23:00-09:00	17R, 17L, 29, 26
DEPARTURES		
	All hours	35L, 35R
	ICAO Annex 16 Chapter 2 (FAA Stage 2) and non-noise certified aircraft departures – ALL HOURS	35L, 35R

1. Physical condition of surface.
2. Effective crosswind component not to exceed 15 knots for arrivals, 20 knots for departures.
3. Effective tailwind component not to exceed 5 knots.
4. Other Safety considerations declared by the Captain of the aircraft.
5. For landing on rwy 26 at night, aircraft are to fly the rwy 29 ILS until interception of the extended centreline of rwy 26 for a visual straight-in approach.

Departure Procedures

Rwy	NADP
All rwys	1 or 2

SID cancellation does not terminate Noise Abatement Procedure. ICAO Annex 16 Chapter 2 (FAA Stage 2) and non-noise certified military aircraft will be assigned rwy 35L for departures when rwys 29 and 35L are in use.

Runway	Noise Abatement Procedures
26	Restricted to ICAO Annex 16 Chapter 3 (FAA Stage 3) jet aircraft under 44,100 lb gross take-off weight. Climb rwy heading to 6500' ASL before proceeding on course.
All runways	Climb to 6500' ASL on ATC assigned SID heading before proceeding on course.

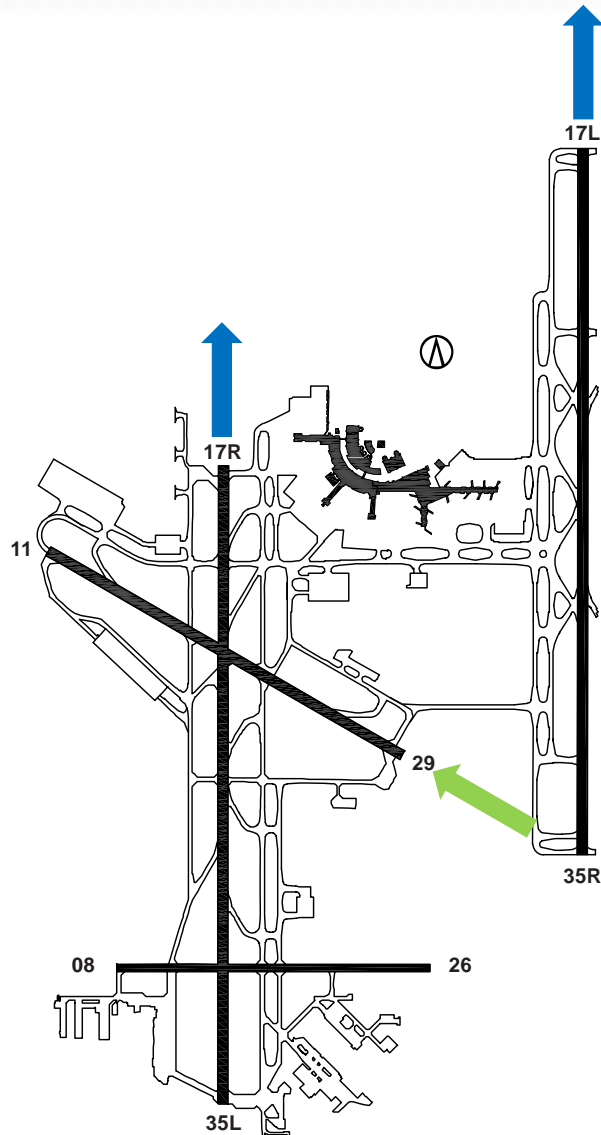
It is the pilot's responsibility to adhere to published Noise Abatement Procedures.

NOISE ABATEMENT PROCEDURES CYJC

EFF 24 JUL 14 CYJC-NOR-1 **Canada Air Pilot**
Effective 0901Z 10 DEC 2015 to 0901Z 4 FEB 2016

- Night-time operations take place from 23:00 to 07:00, and are included in our Noise Abatement procedures
- Noise Abatement Procedures establish the preferred runways and how aircraft are to arrive and depart YYC, consistent with safety operations

Night-time Operations

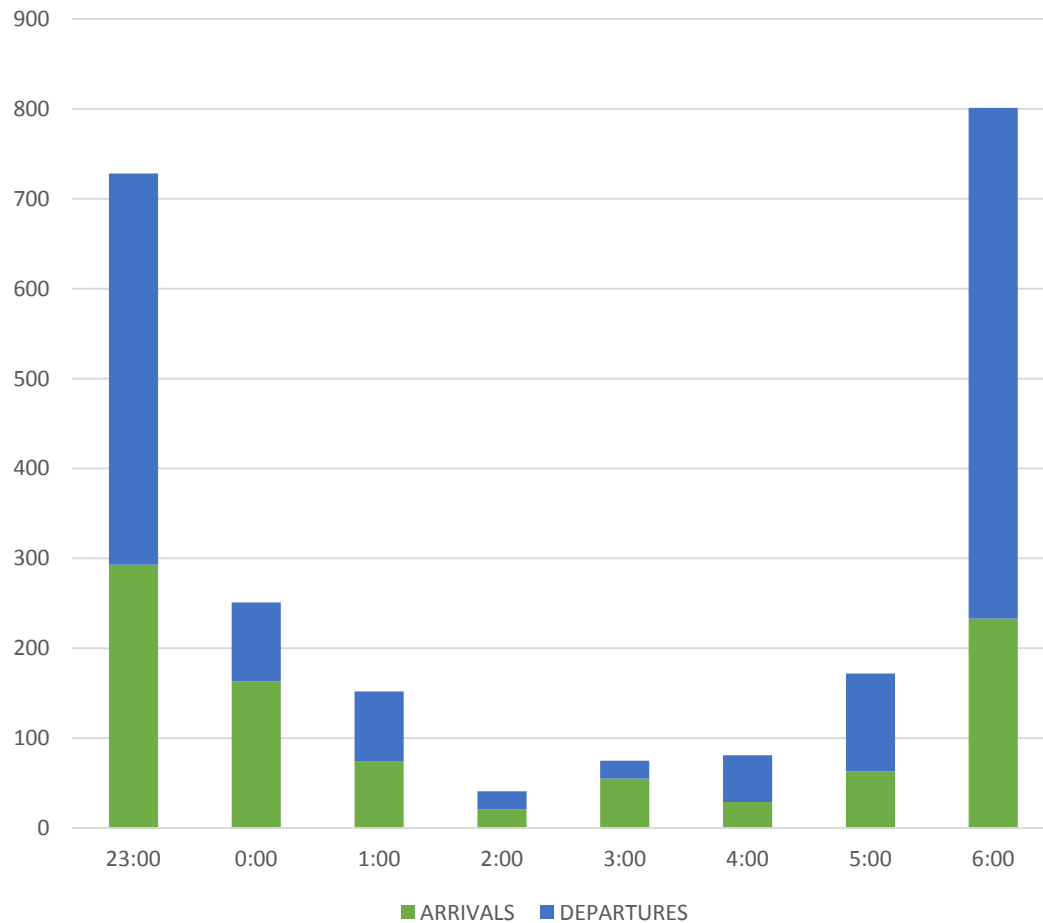


- When we are in off-peak time and winds are calm, the preferred directions are:
 - **Departures** to the north (Runway 35R and 35L)
 - **Arrivals** to the northwest (Runway 29)

Night-time Operations



Night-time Operations (May 2017)



- Traffic volumes are still high until midnight and at 6 a.m.
- Between midnight and 6 a.m., on average, we see 25 aircraft movements/day
- To maintain safety during night-time operations transition to and out of Runway 29 takes into consideration these hourly movements

NMT Updates

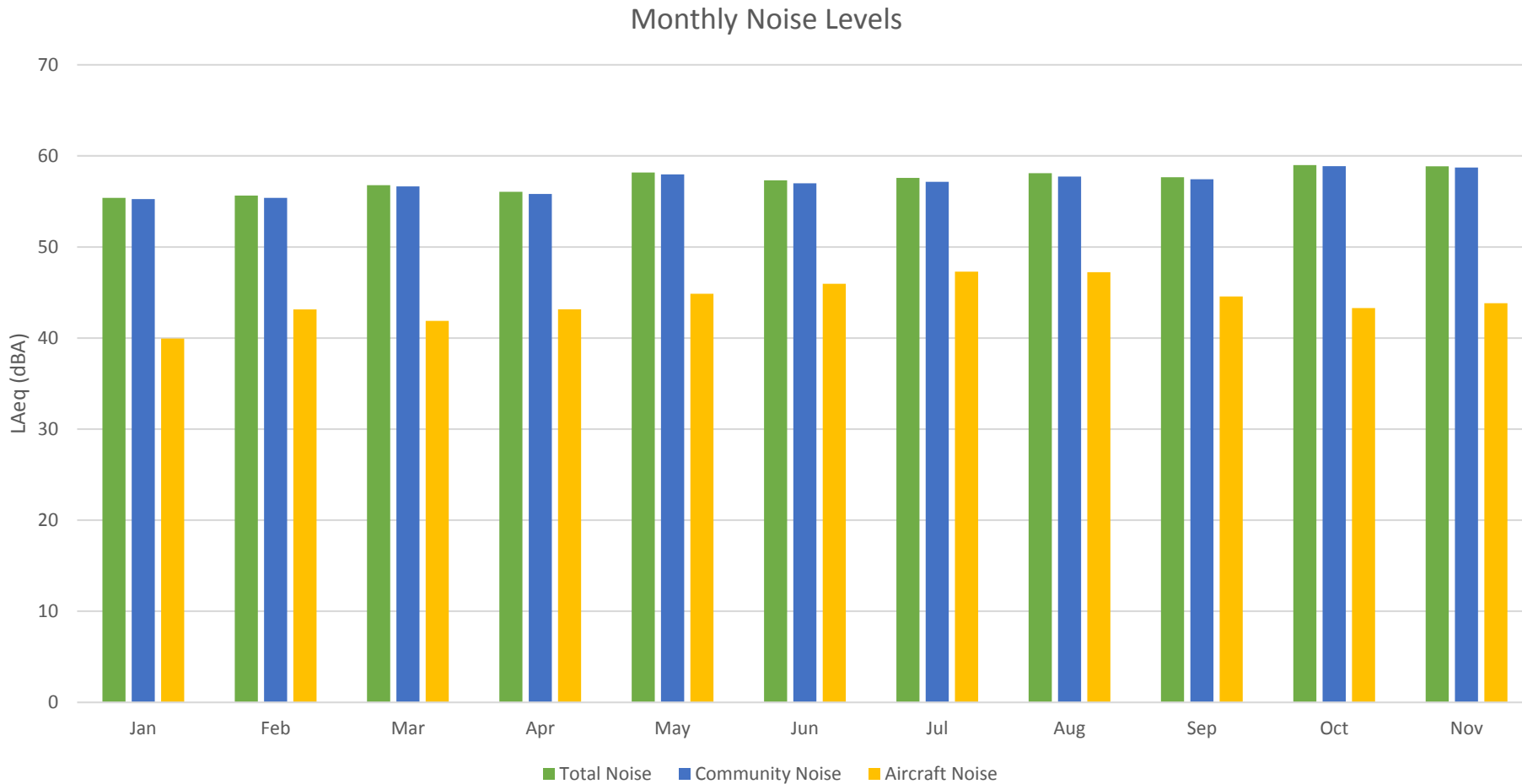


Equipment Status



- All noise monitors have been calibrated
- We installed two noise monitors in the 17L departure path (Marlborough and Rundle). And we are finalizing the details to install one monitor in the 35L departure / 17R arrival path (west Airdrie)
- We identified NMT locations with community noise sources that could potentially skew aircraft noise data (e.g. major roads, railways, commercial, fire halls)
- We are working with our software provider to look at the aircraft noise correlation and further verify the NMT locations. We have our top (Mayland Heights and Castle Ridge) and bottom (Harvest Hills and Temple) NMT performers

Aircraft Noise Reporting – for 2018



Note: this graphic example was developed using the Radisson Heights noise monitor data for Jan-Nov 2017

Roving NMT Program



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

Committee Membership

2018 Confirmation



Annual Confirmation



- We will email to the Community Associations (Cc'ing current representative and alternate) the first week of January
- We would like to receive all responses by the end of the month to update the distribution list as needed
- We aim to have the first ACCC meeting of 2018 in the month of March



Q&A

