



# NOISE OVERSIGHT COMMITTEE

January 16, 2019

*Audio recordings are made of this meeting*

# ITEM 1

## REVIEW AND APPROVAL OF NOVEMBER 28<sup>TH</sup> MEETING MINUTES



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 16, 2019**



# ITEM 2

## REVIEW OF MONTHLY OPERATIONS REPORTS



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 16, 2019**



# MSP OPERATIONS

NOVEMBER 2018

**31,299**

Operations

**2,071**

Nighttime Operations  
(10:30 PM – 6:00 AM)

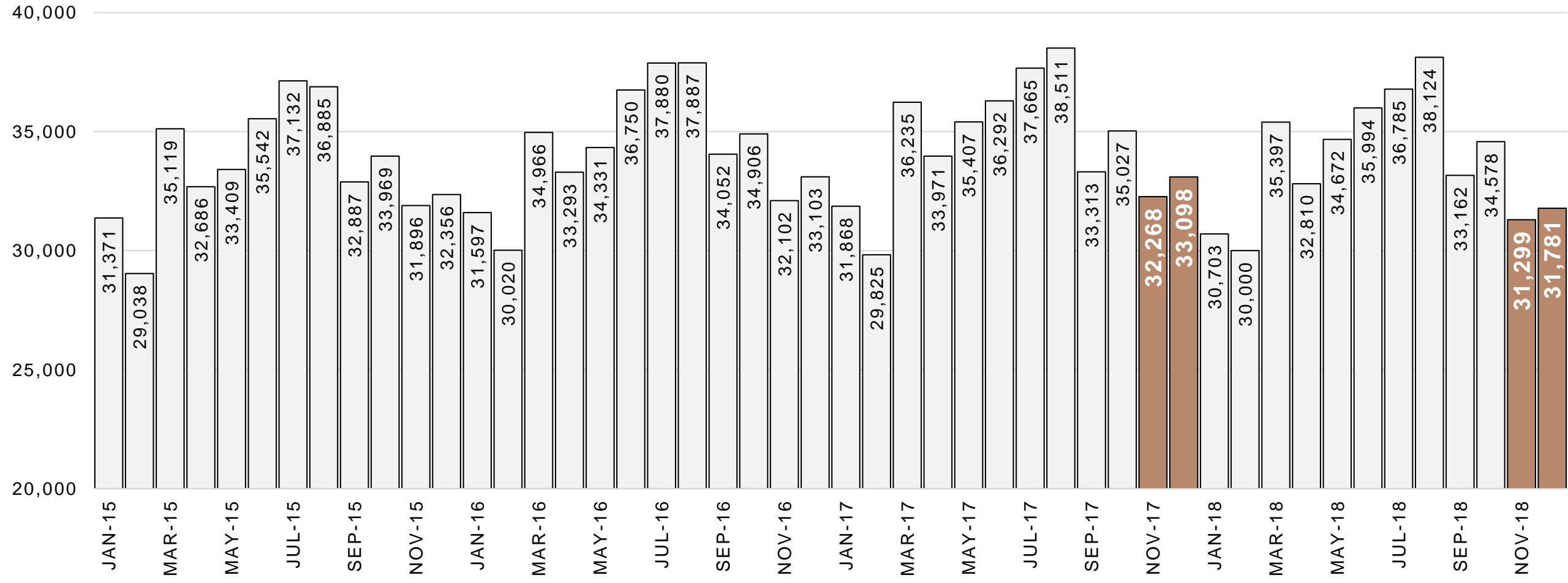
DECEMBER 2018

**31,781**

Operations

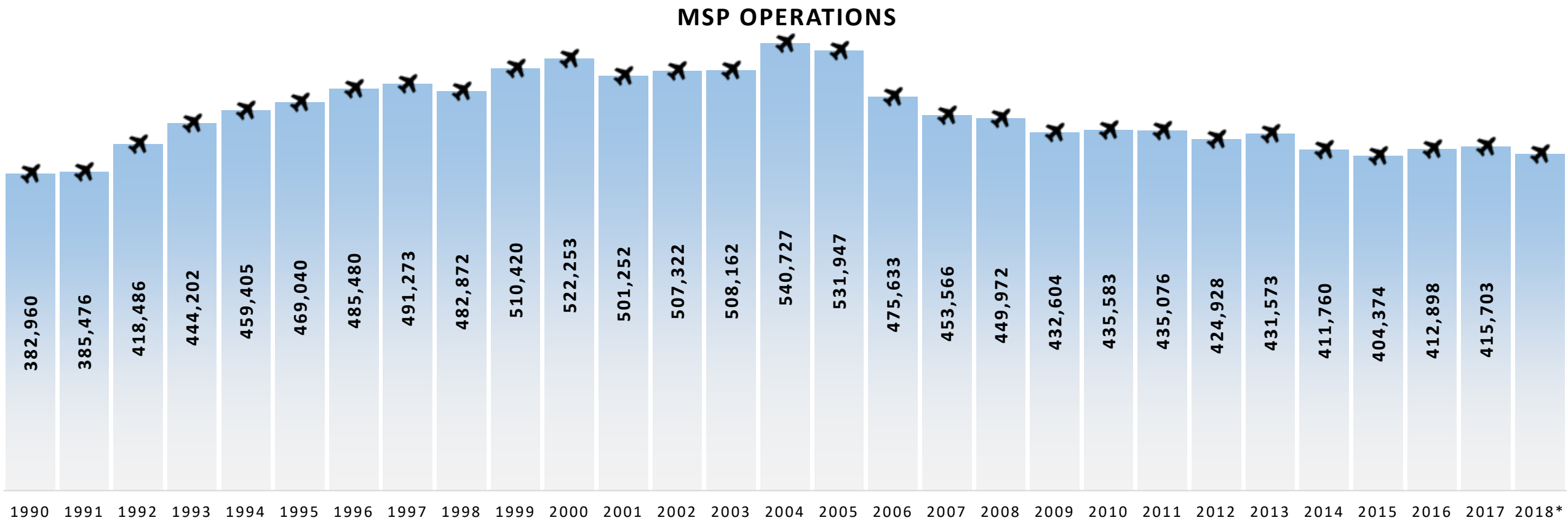
**2,122**

Nighttime Operations  
(10:30 PM – 6:00 AM)



# MSP OPERATIONS

2018	2017
<b>405,305</b>	<b>413,480</b>
MSP Operations (MACNOMS)	MSP Operations (MACNOMS)



SOURCE: FAA OPSNET  
\*FAA OPSNET DATA AVAILABLE FROM JAN-18 THROUGH NOV-18. 2018 NUMBER IS ESTIMATED

# MSP OPERATIONS

NOVEMBER 2018

**31,299**

Operations

**2,071**

Nighttime Operations  
(10:30 PM – 6:00 AM)

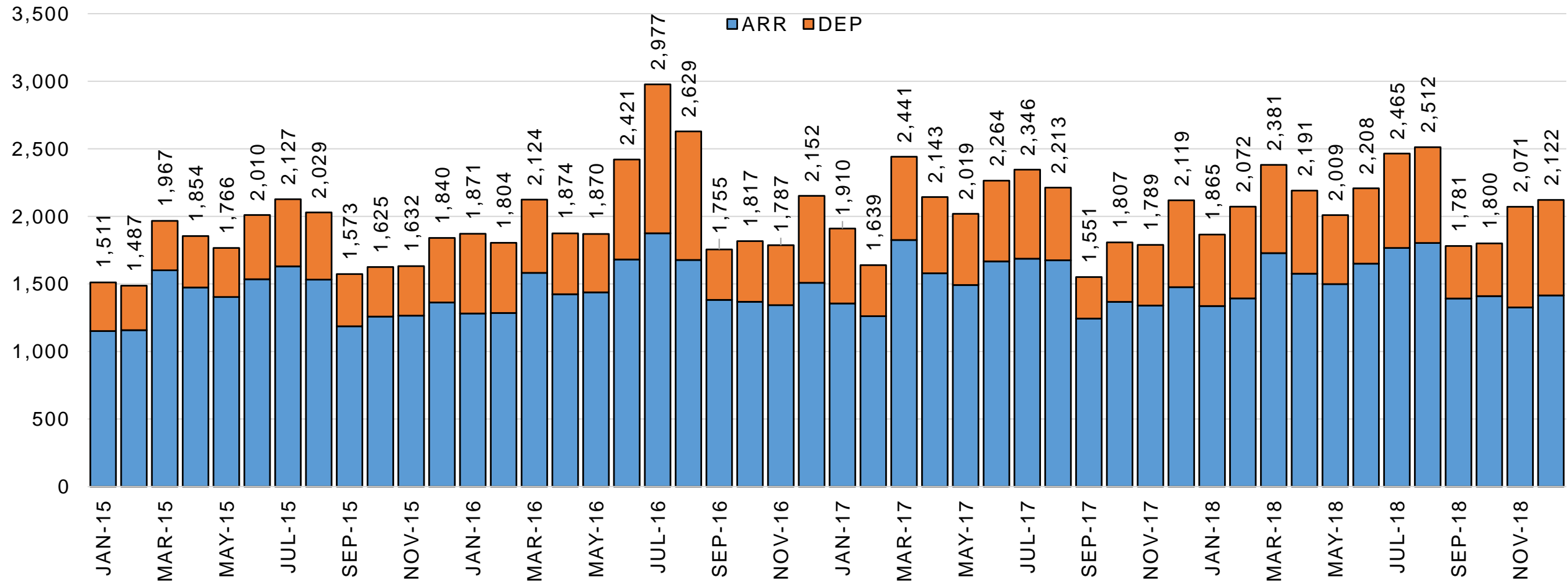
DECEMBER 2018

**31,781**

Operations

**2,122**

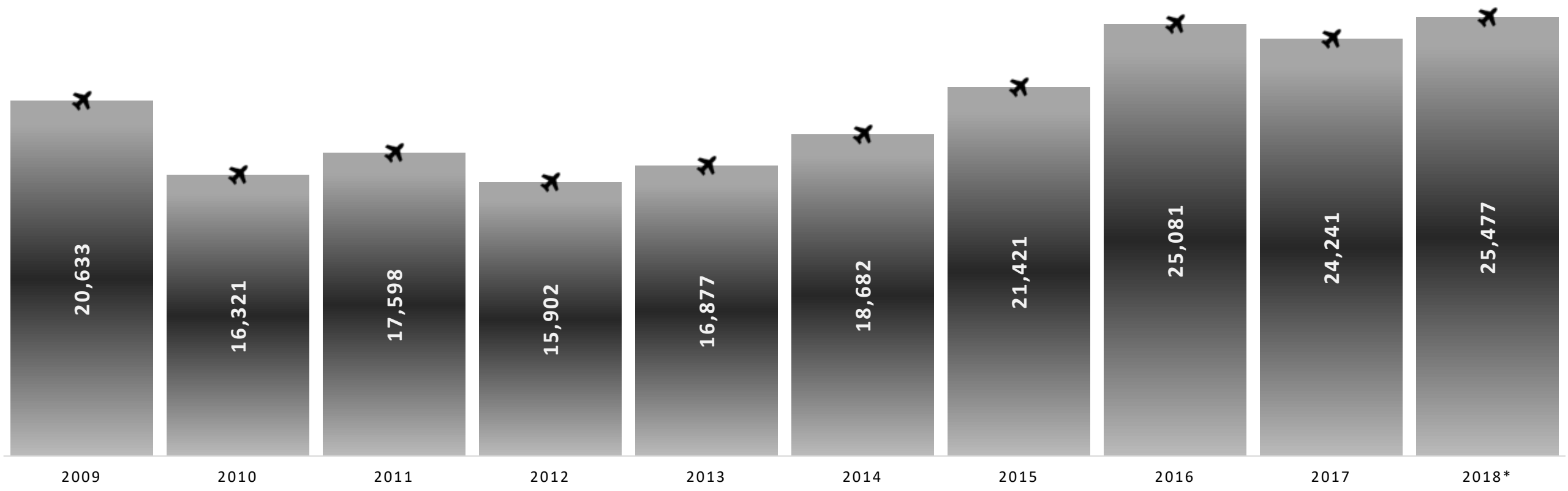
Nighttime Operations  
(10:30 PM – 6:00 AM)



# MSP OPERATIONS

2018	2017
<b>25,477</b>	<b>24,241</b>
MSP Nighttime Operations (MACNOMS)	MSP Nighttime Operations (MACNOMS)

## MSP NIGHTTIME OPERATIONS *10:30 PM - 6:00 AM*



SOURCE: MACNOMS

# RUNWAY USE

## NOVEMBER 2018

## DECEMBER 2018

NORTH FLOWS

SOUTH FLOWS

MIXED FLOWS

NORTH FLOWS

SOUTH FLOWS

MIXED FLOWS

45%

41%

7%

26%

48%

16%

### North Flow

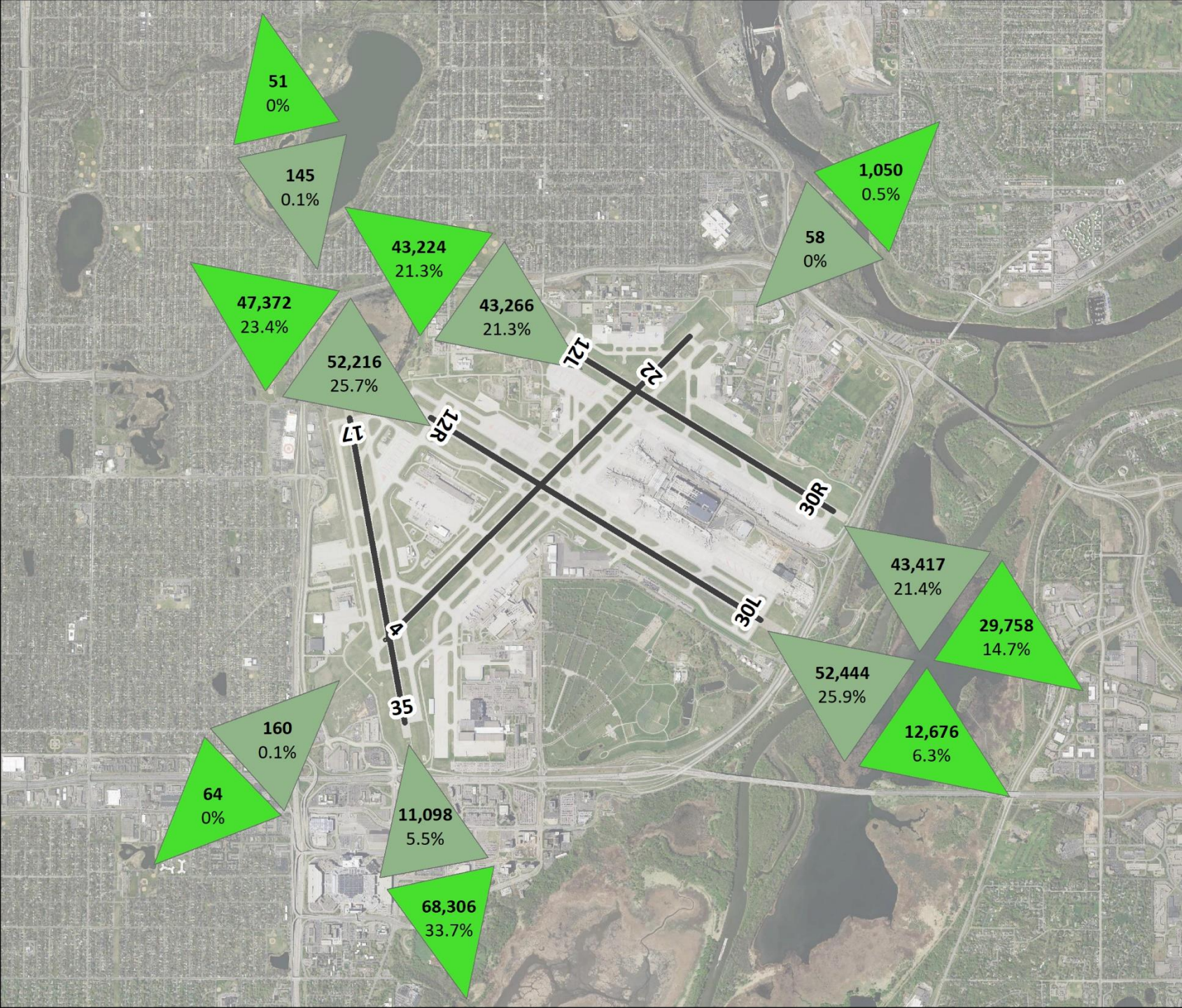
### South Flow

### Mixed Flow

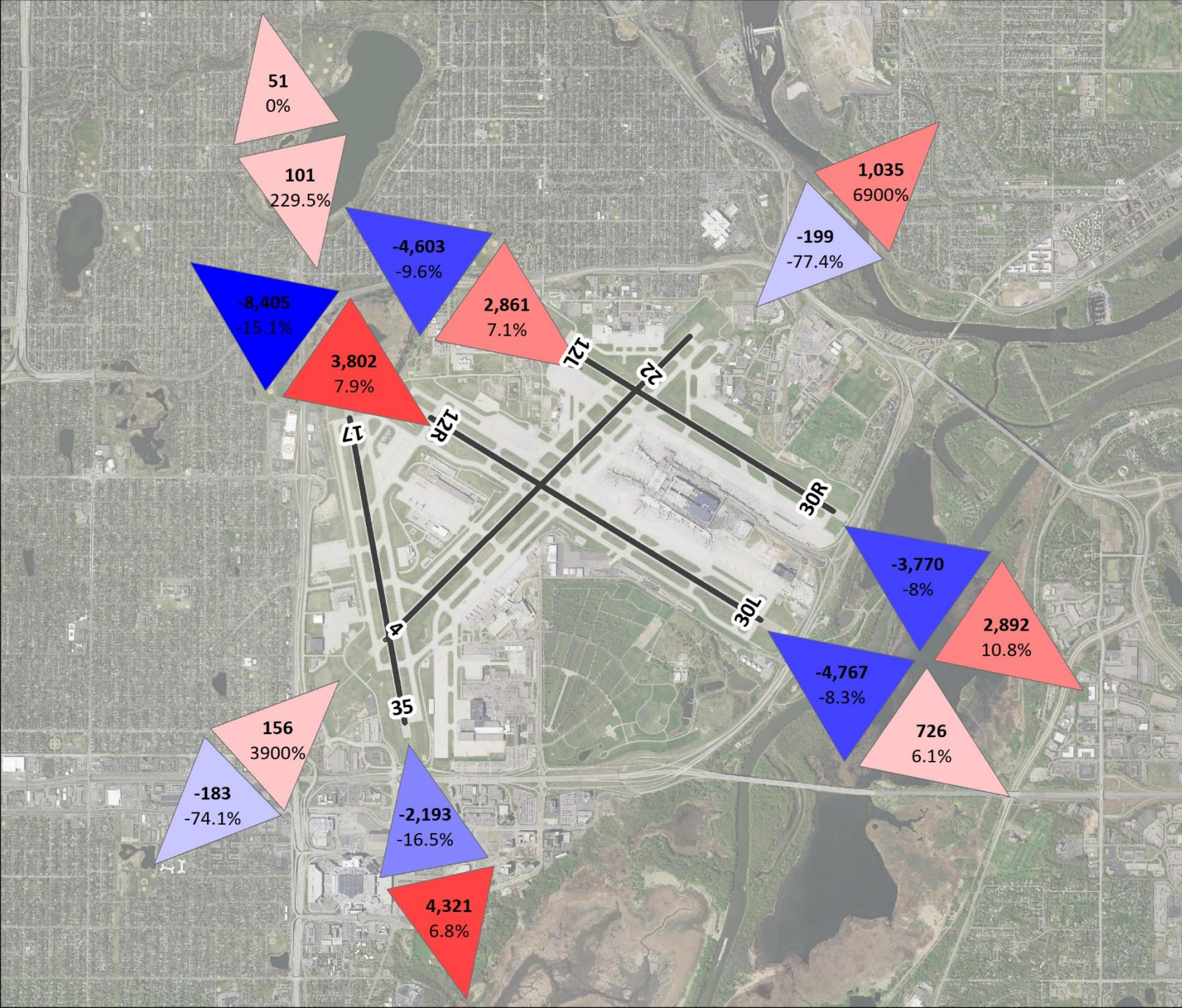


Year	Flow	Hours	% Use	Year	Flow	Hours	% Use	Year	Flow	Hours	% Use
2017	North	1,312	16.6%	2017	South	2,213	28.0%	2017	Mixed A	823	10.4%
	North*	1,879	23.7%		South*	1,003	12.7%		Mixed B	30	0.4%
	Total	3,191	40.3%		Total	3,216	40.6%		Total	853	10.8%
2018	North	940	11.9%	2018	South	2,518	31.8%	2018	Mixed A	905	11.4%
	North*	1,787	22.5%		South*	1,123	14.2%		Mixed B	29	0.4%
	Total	2,727	34.4%		Total	3,641	45.9%		Total	934	11.8%





2018 RUNWAY USE			
<b>405,305</b> OPERATIONS IN 2018			
PRIORITY 1 <b>34.1%</b>	PRIORITY 2 <b>19.6%</b>	PRIORITY 3 <b>.3%</b>	PRIORITY 4 <b>45.9%</b>
<b>202,804</b> ARRIVALS			
PRIORITY 1 <b>47.3%</b>	PRIORITY 2 <b>5.5%</b>	PRIORITY 3 <b>.1%</b>	PRIORITY 4 <b>47.1%</b>
<b>202,501</b> DEPARTURES			
PRIORITY 1 <b>21.0%</b>	PRIORITY 2 <b>33.7%</b>	PRIORITY 3 <b>.6%</b>	PRIORITY 4 <b>44.7%</b>

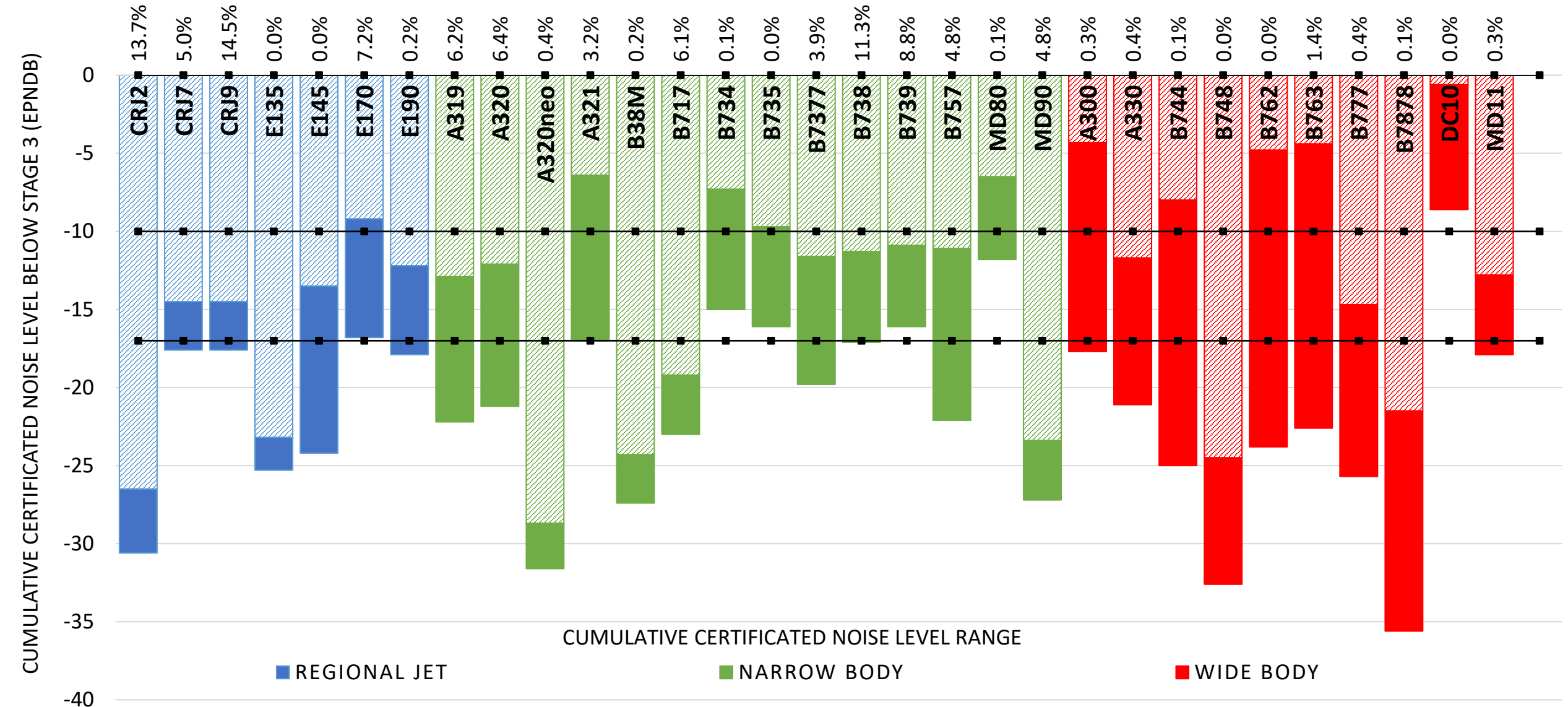


RUNWAY USE			
<b>405,305</b> OPERATIONS IN 2018			
PRIORITY 1 <b>34.1%</b>	PRIORITY 2 <b>19.6%</b>	PRIORITY 3 <b>.3%</b>	PRIORITY 4 <b>45.9%</b>
<b>202,804</b> ARRIVALS			
PRIORITY 1 <b>47.3%</b>	PRIORITY 2 <b>5.5%</b>	PRIORITY 3 <b>.1%</b>	PRIORITY 4 <b>47.1%</b>
<b>202,501</b> DEPARTURES			
PRIORITY 1 <b>21.0%</b>	PRIORITY 2 <b>33.7%</b>	PRIORITY 3 <b>.6%</b>	PRIORITY 4 <b>44.7%</b>

# MSP OPERATIONS

## 2018 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS

Nov - Dec

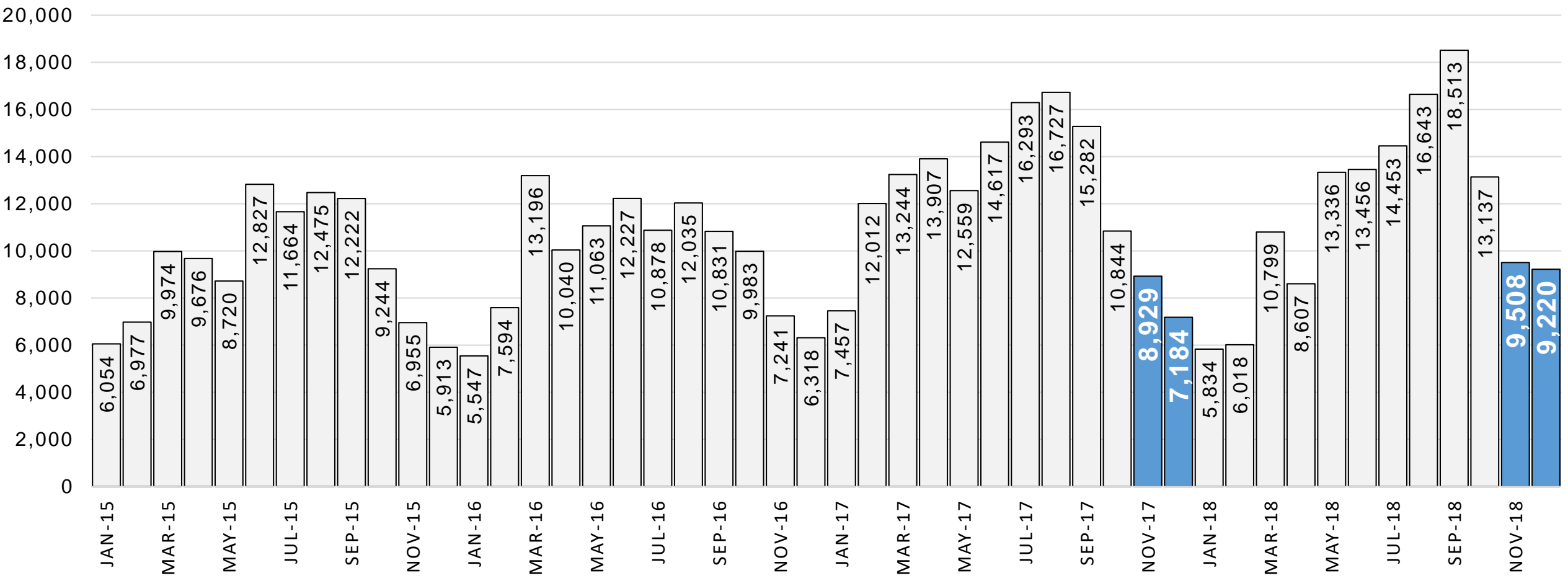


SOURCE: USAGE DATA: MACNOMS; NOISE CERTIFICATION DATA: EUROPEAN AVIATION SAFETY AGENCY

CUMULATIVE CERTIFICATED NOISE LEVELS REPRESENTED AS A RANGE TO ACCOUNT FOR MULTIPLE CERTIFICATION VARIABLES (WEIGHT, MODEL, ENGINE TYPE, AIRFRAME CONFIGURATION, ETC)

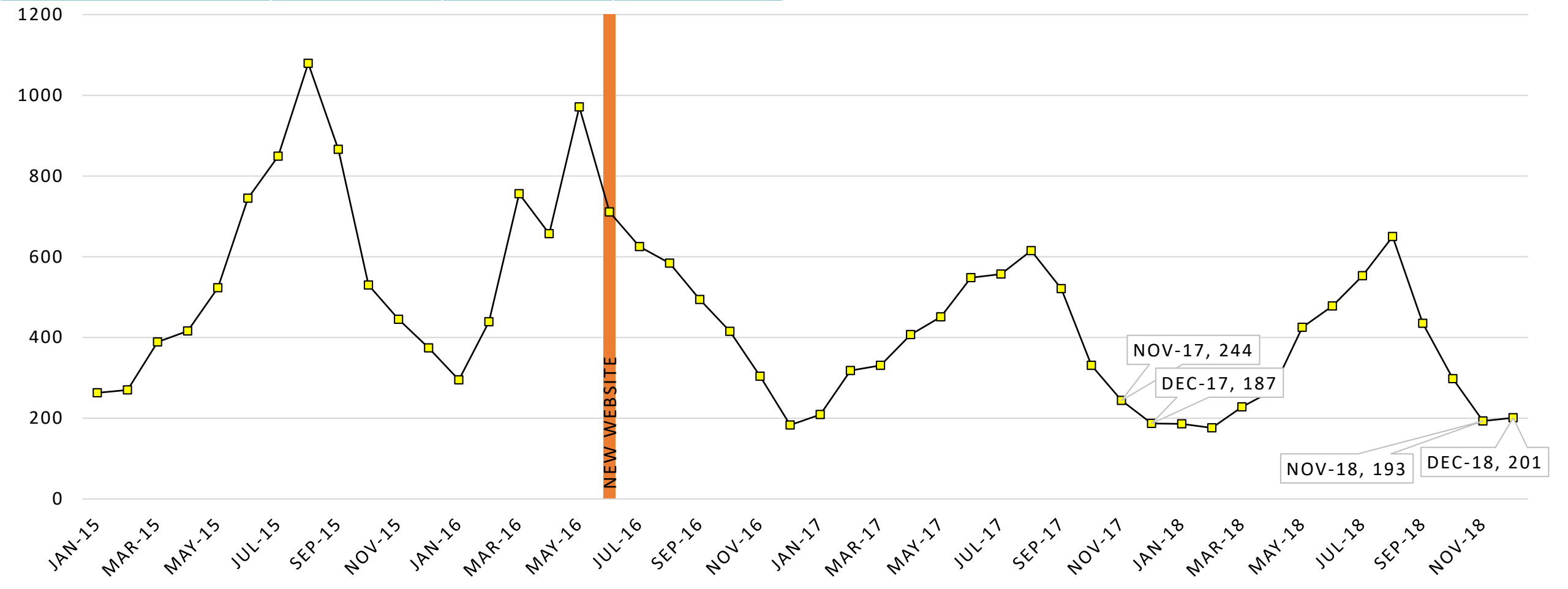
# MSP COMPLAINTS

NOVEMBER 2018				DECEMBER 2018			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
<b>9,508</b>	<b>193</b>			<b>9,220</b>	<b>201</b>		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
<b>3.3</b>	<b>11</b>	<b>49</b>	<b>4</b>	<b>3.4</b>	<b>7</b>	<b>46</b>	<b>5</b>



# MSP COMPLAINTS

NOVEMBER 2018				DECEMBER 2018			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
<b>9,508</b>	<b>193</b>			<b>9,220</b>	<b>201</b>		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
<b>3.3</b>	<b>11</b>	<b>49</b>	<b>4</b>	<b>3.4</b>	<b>7</b>	<b>46</b>	<b>5</b>



# MSP COMPLAINTS

2018		
COMPLAINTS	LOCATIONS	AVERAGE
139,524	1,484	94

2017		
COMPLAINTS	LOCATIONS	AVERAGE
149,055	1,621	92

# 2018 COMPLAINTS BY NOC CITY

## TOP 3 NON-NOC CITIES

### **GOLDEN VALLEY**

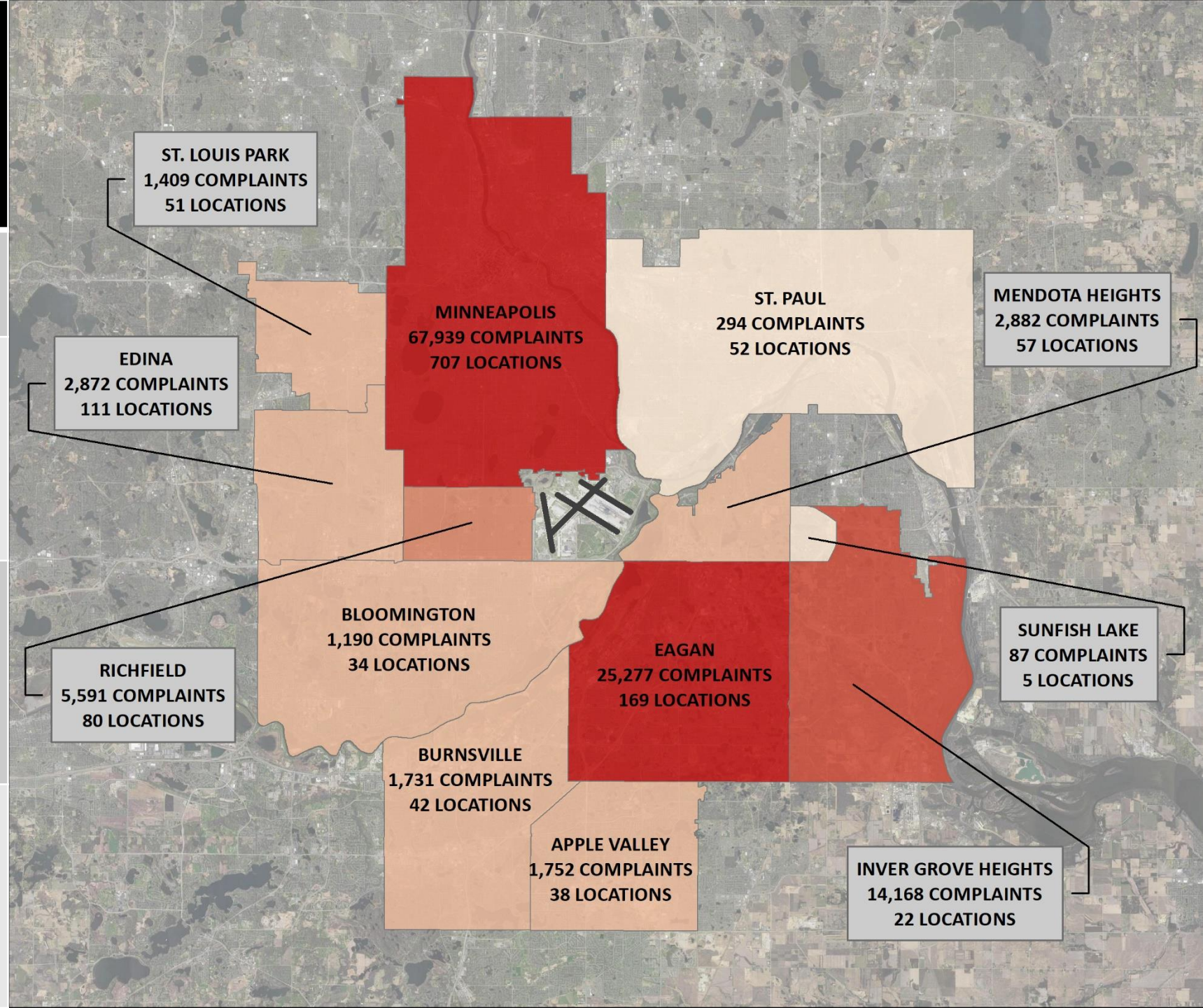
6,053 Complaints  
7 Locations

### **MINNETONKA**

2,992 Complaints  
14 Locations

### **COTTAGE GROVE**

1,484 Complaints  
2 Locations



# AVERAGE COMPLAINTS BY NOC CITY

## TOP 3 NON-NOC CITIES

### GOLDEN VALLEY

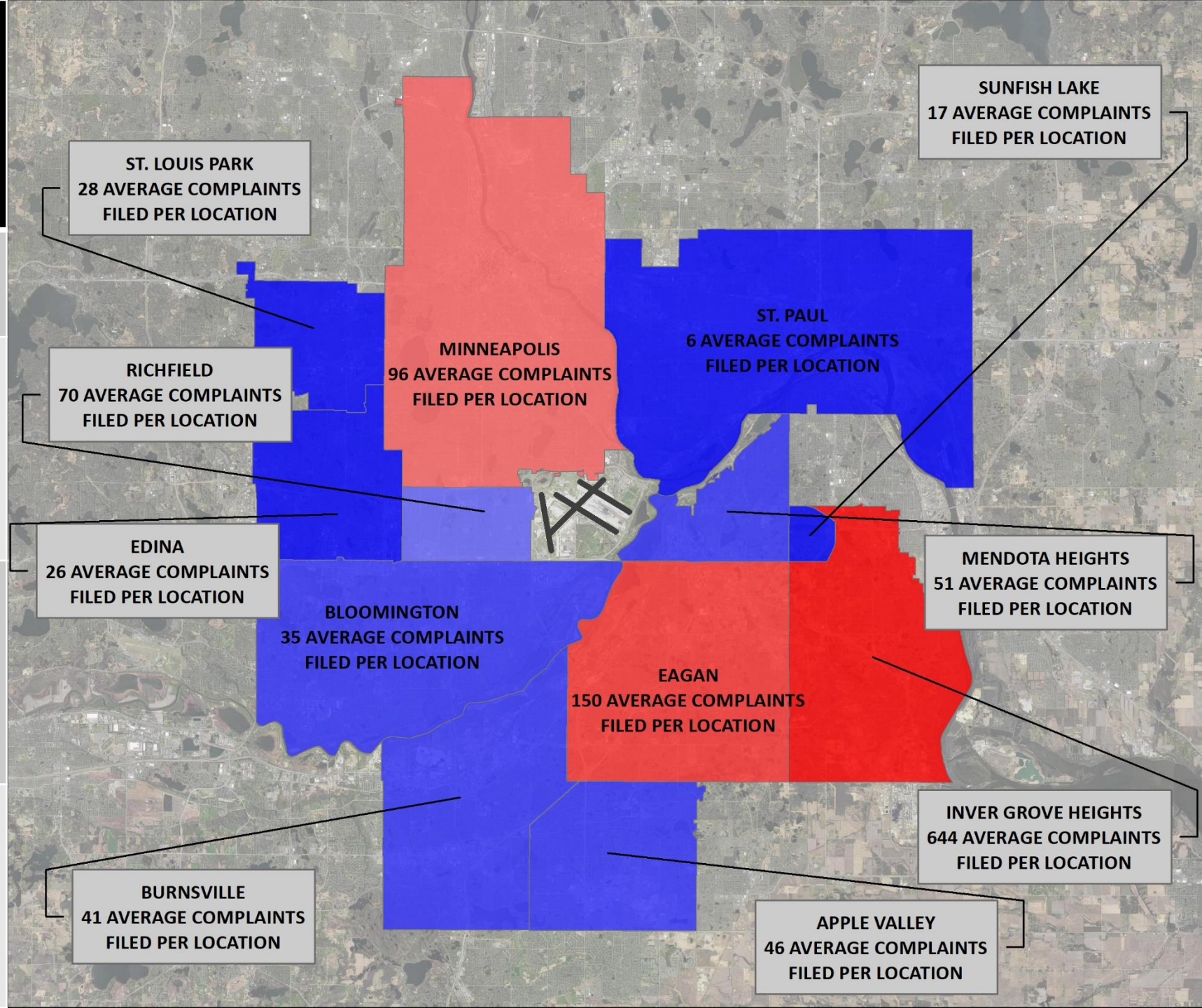
865  
complaints / location

### COTTAGE GROVE

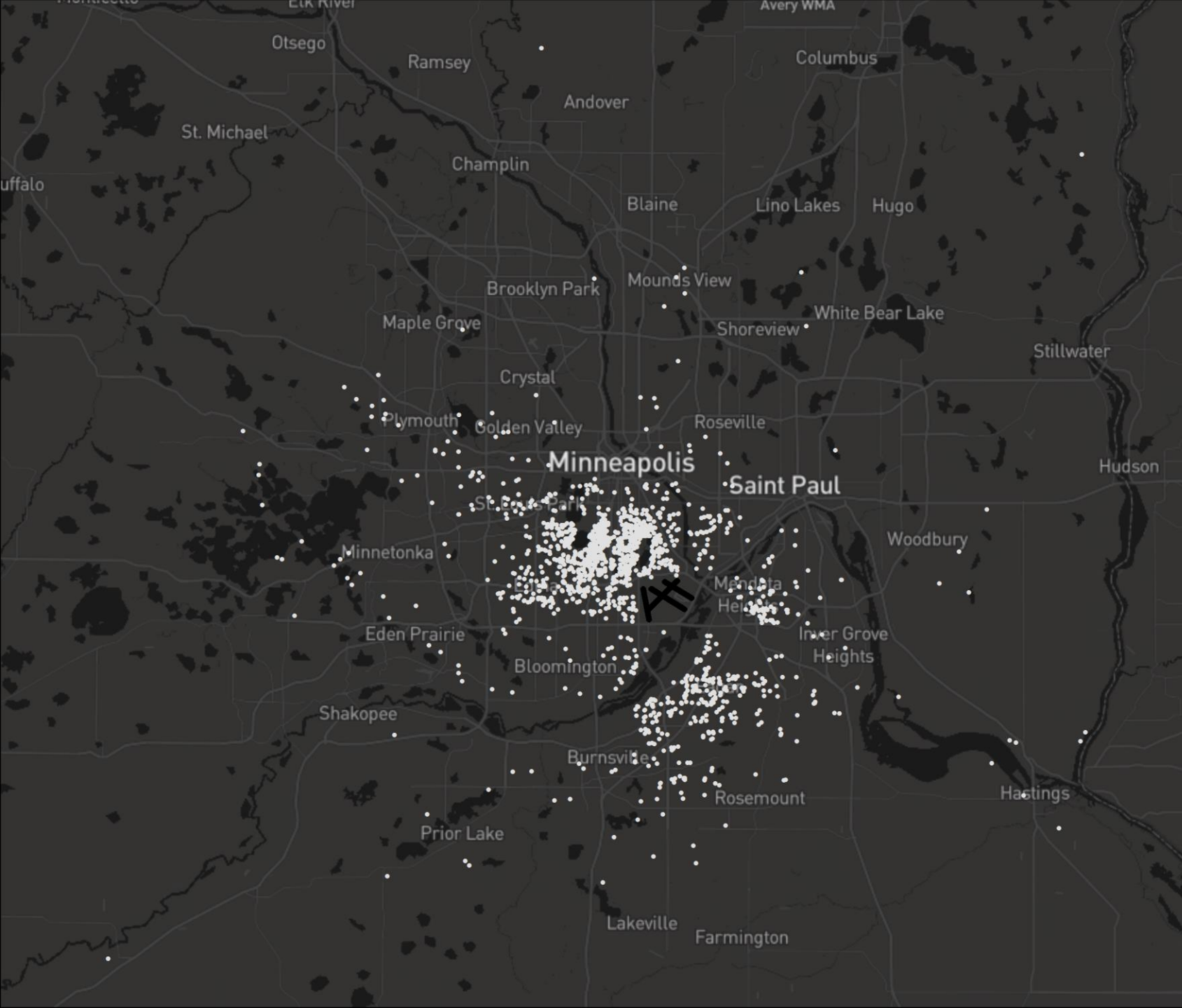
742  
complaints / location

### GREY CLOUD ISLAND

278  
complaints / location







# TOP 10 LOCATIONS

FILED  
**71,785**  
(51.4%)  
COMPLAINTS DURING 2018

**8 OF 10**  
LOCATIONS WERE IN THE TOP 10  
FOR 2017 DATA

**1,047**  
(71%)  
LOCATIONS FILED 10 OR LESS  
COMPLAINTS



# TOP 10 LOCATIONS

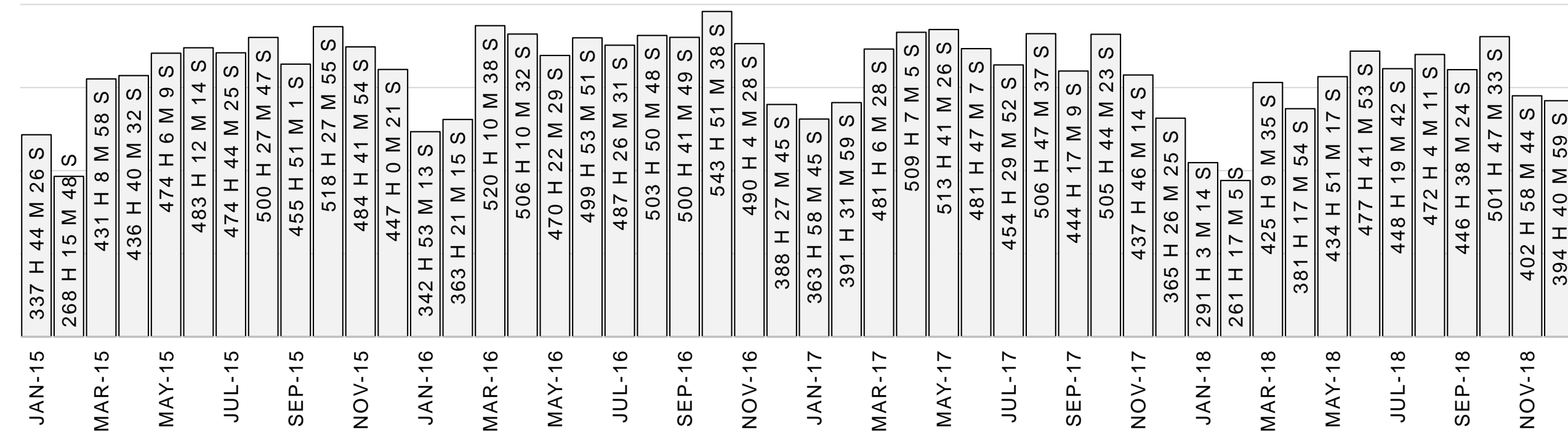
FILED  
**71,785**  
 (51.4%)  
 COMPLAINTS DURING 2018

**8 OF 10**  
 LOCATIONS WERE IN THE TOP 10  
 FOR 2017 DATA

**1,047**  
 (71%)  
 LOCATIONS FILED 10 OR LESS  
 COMPLAINTS

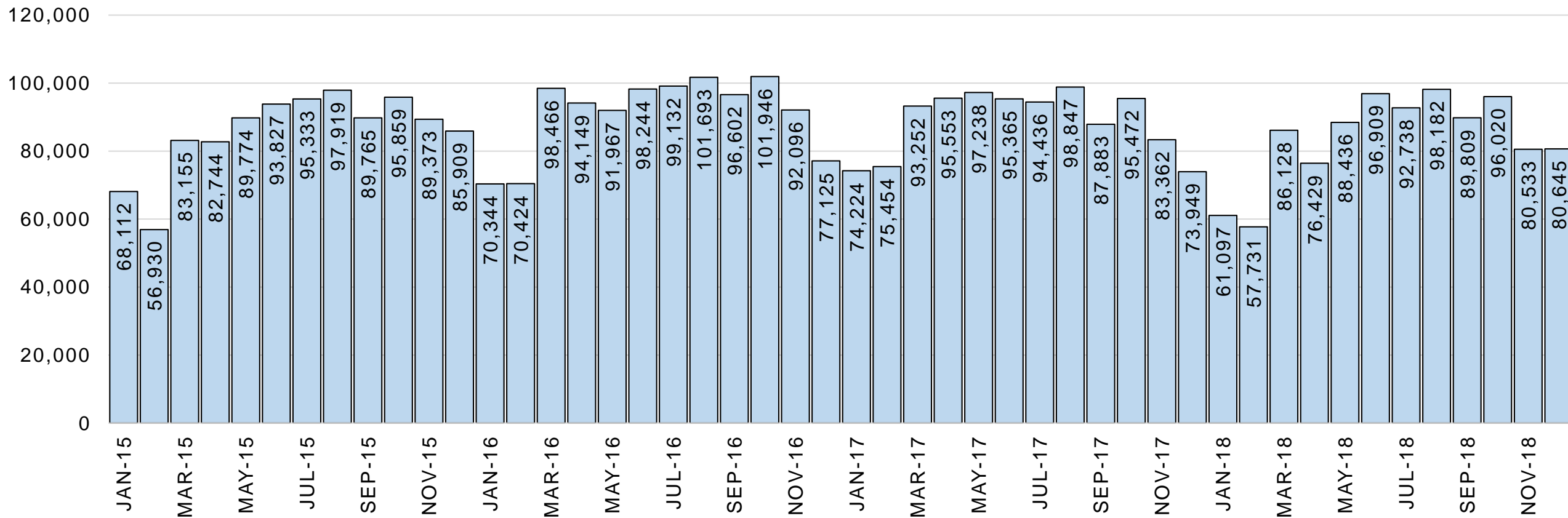
# SOUND MONITORING

NOVEMBER 2018			DECEMBER 2018		
Time Above	<b>46<sub>s</sub></b> TA <sup>65</sup> per operation	<b>402<sub>h</sub> 58<sub>m</sub></b> TA <sup>65</sup>	Time Above	<b>45<sub>s</sub></b> TA <sup>65</sup> per operation	<b>394<sub>h</sub> 40<sub>m</sub></b> TA <sup>65</sup>
Count Above	<b>2.57</b> N <sup>65</sup> per operation	<b>80,533</b> N <sup>65</sup>	Count Above	<b>2.54</b> N <sup>65</sup> per operation	<b>80,645</b> N <sup>65</sup>



# SOUND MONITORING

NOVEMBER 2018			DECEMBER 2018		
Time Above	<b>46<sub>s</sub></b> TA <sup>65</sup> per operation	<b>402<sub>h</sub> 58<sub>m</sub></b> TA <sup>65</sup>	Time Above	<b>45<sub>s</sub></b> TA <sup>65</sup> per operation	<b>394<sub>h</sub> 40<sub>m</sub></b> TA <sup>65</sup>
Count Above	<b>2.57</b> N <sup>65</sup> per operation	<b>80,533</b> N <sup>65</sup>	Count Above	<b>2.54</b> N <sup>65</sup> per operation	<b>80,645</b> N <sup>65</sup>



# SOUND MONITORING

2018		
Time Above	<b>44<sub>s</sub></b> TA <sup>65</sup> per operation	<b>4,938<sub>h</sub></b> TA <sup>65</sup>
Count Above	<b>2.48</b> N <sup>65</sup> per operation	<b>1,004,657</b> N <sup>65</sup>

2017		
Time Above	<b>48<sub>s</sub></b> TA <sup>65</sup> per operation	<b>5,456<sub>h</sub></b> TA <sup>65</sup>
Count Above	<b>2.58</b> N <sup>65</sup> per operation	<b>1,065,035</b> N <sup>65</sup>

# NOISE ABATEMENT

NOVEMBER 2018

DECEMBER 2018

Runway 17 **99.7%**

Runway 17 **99.5%**

Corridor **94.4%**

Corridor **95.2%**

Cross Day **28.9%**

Cross Day **33.1%**

Cross Night **38.0%**

Cross Night **46.7%**

RUS

**52.3%**

Arrive – **59%**

Depart – **46%**

RUS

**55.3%**

Arrive – **52%**

Depart – **59%**

# NOISE ABATEMENT

2018

Runway 17	99.5%
-----------	-------

Corridor	94.5%
----------	-------

Cross Day	34.5%
-----------	-------

Cross Night	40.7%
-------------	-------

RUS	53.7%
-----	-------

2017

Runway 17	99.7%
-----------	-------

Corridor	94.3%
----------	-------

Cross Day	32.7%
-----------	-------

Cross Night	41.4%
-------------	-------

RUS	53.3%
-----	-------

# ITEM 3

## PUBLIC COMMENT PERIOD



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 16, 2019**





# ITEM 3

## PUBLIC COMMENT PERIOD

### Speaking at a Meeting

- Please complete and submit a speaker card.
- Each speaker will have one opportunity to speak and is allotted three (3) minutes.
- When called upon to speak, speak clearly into the microphone, state your name and address. If you are affiliated with any organization, please state your affiliation.
- Commenters shall address their comments to the NOC and not to the audience.
- Use of profanity, personal attacks, or threats of violence will not be tolerated.



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# ITEM 4

## MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT

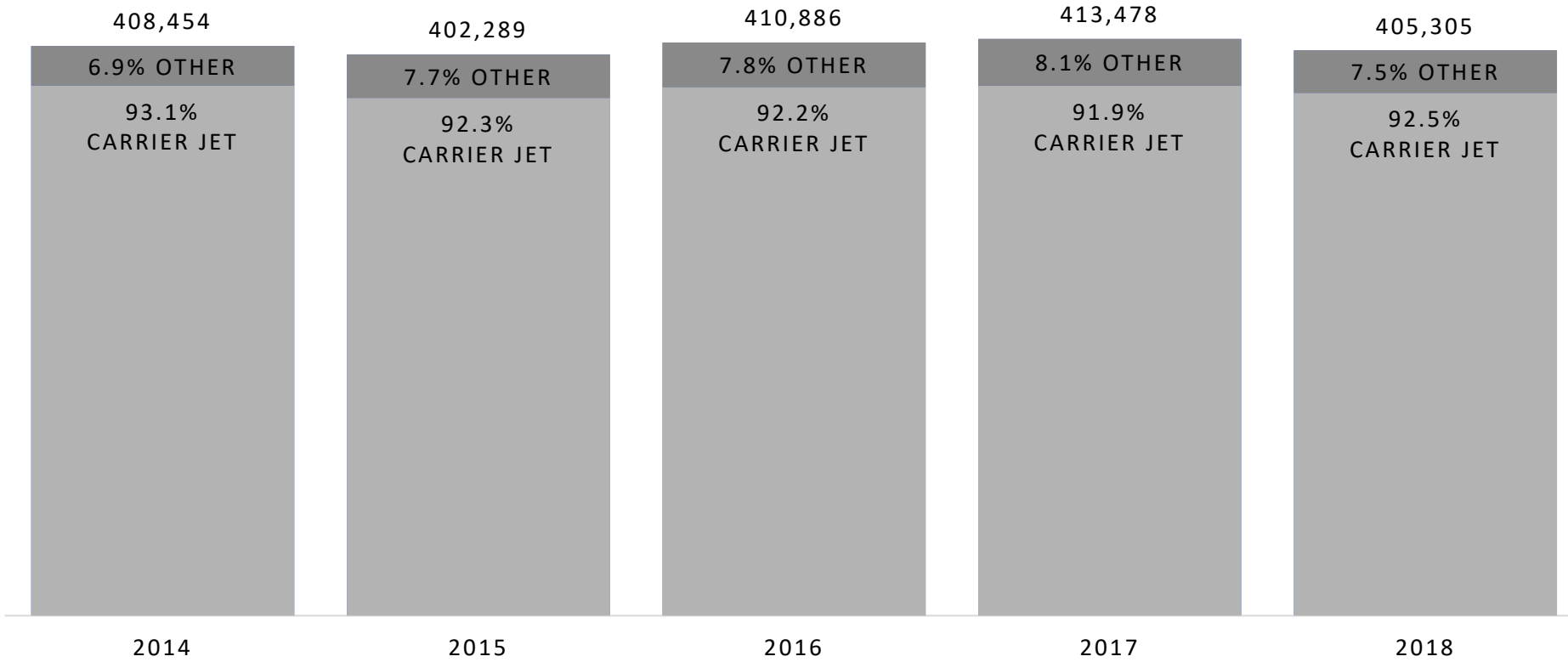


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**JANUARY 16, 2019**



# Item 4: MSP Fleet Mix and Nighttime Operations Report

## MSP OPERATIONS



SOURCE: MACNOMS

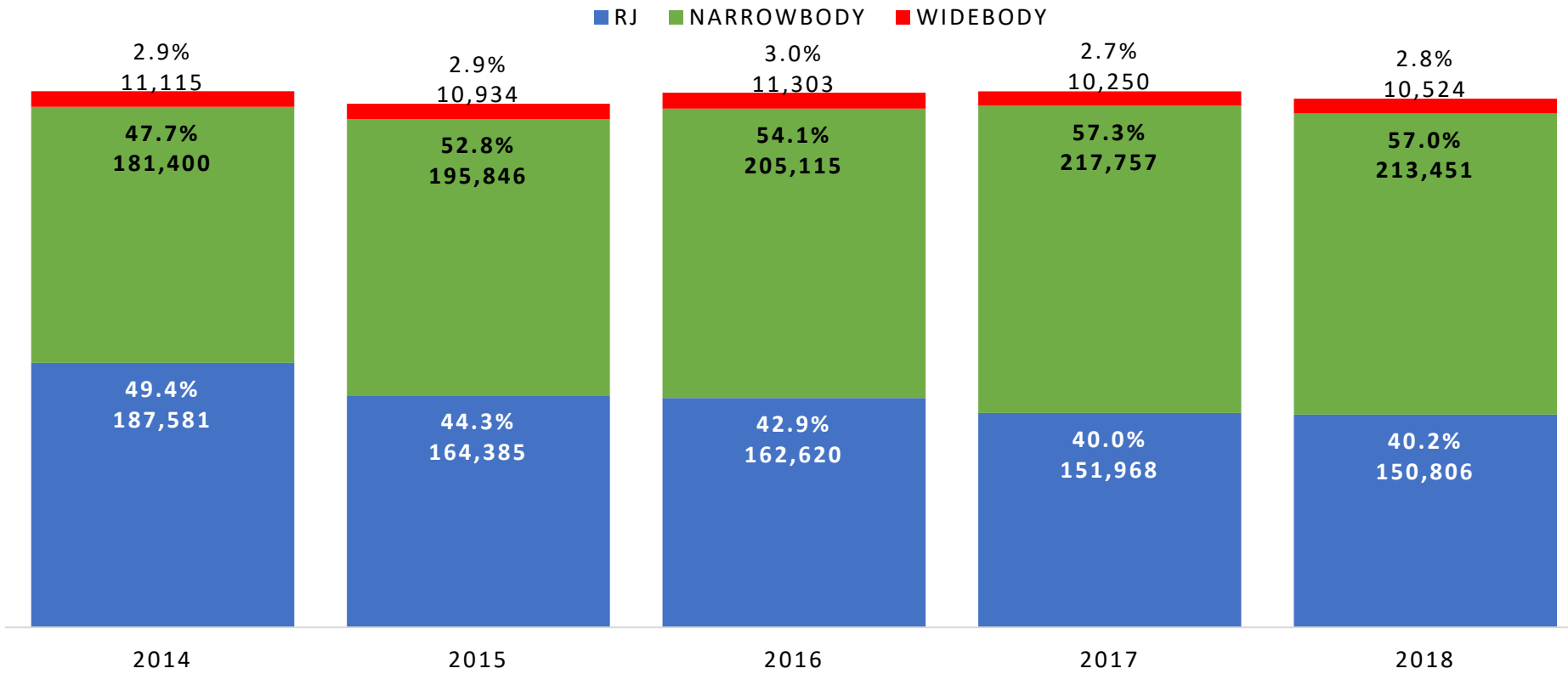


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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## MSP OPERATIONS



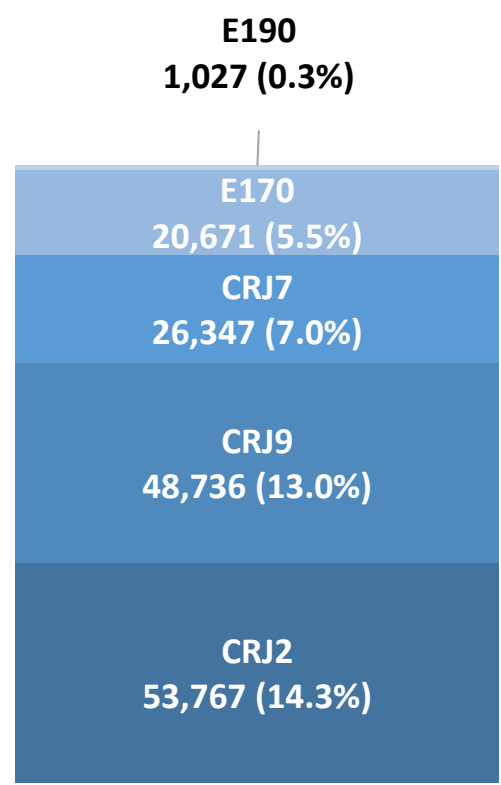
SOURCE: MACNOMS

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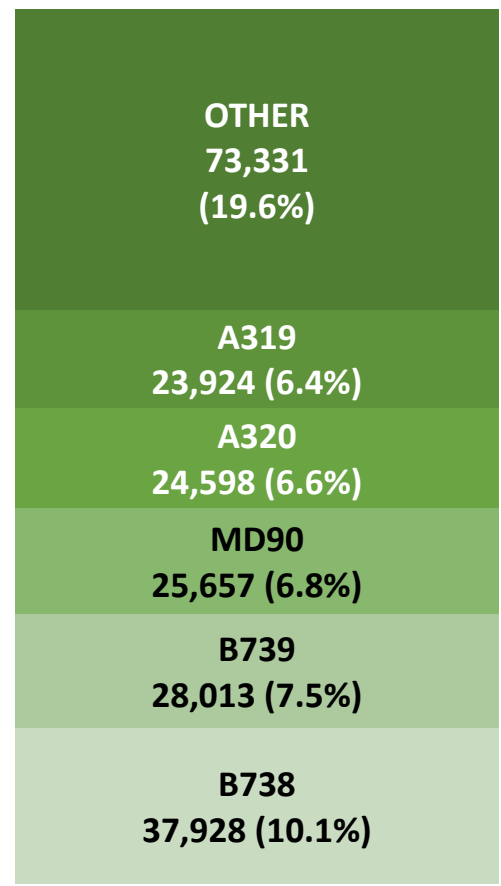


# Item 4: MSP Fleet Mix and Nighttime Operations Report

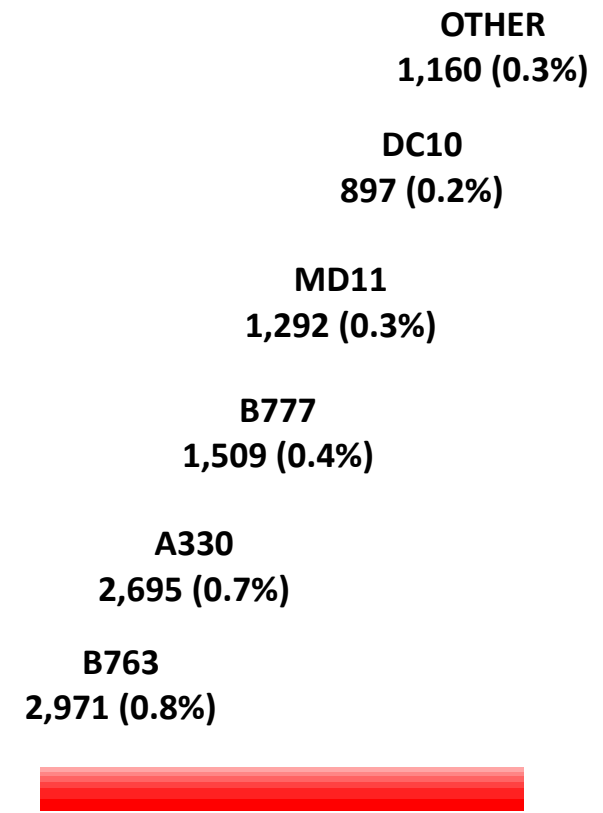
## REGIONAL JET



## NARROWBODY



## WIDEBODY

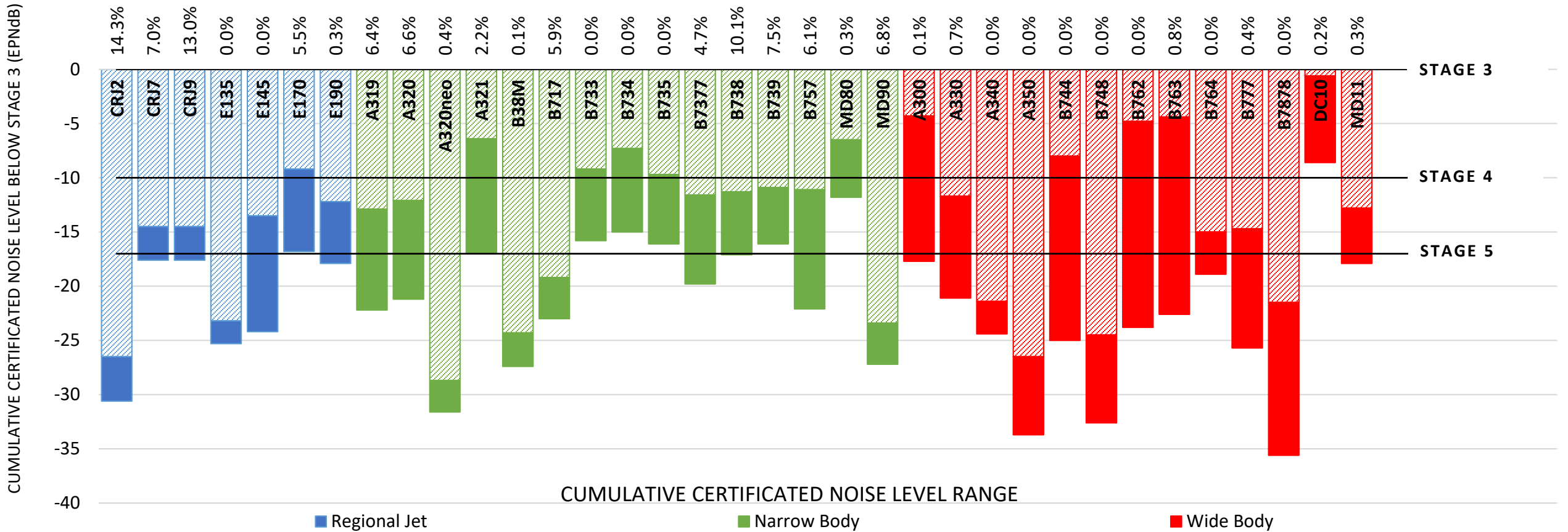


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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## 2018 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS



SOURCE: USAGE DATA: MACNOMS; NOISE CERTIFICATION DATA: EUROPEAN AVIATION SAFETY AGENCY

CUMULATIVE CERTIFICATED NOISE LEVELS REPRESENTED AS A RANGE TO ACCOUNT FOR MULTIPLE CERTIFICATION VARIABLES (WEIGHT, MODEL, ENGINE TYPE, AIRFRAME CONFIGURATION, ETC)

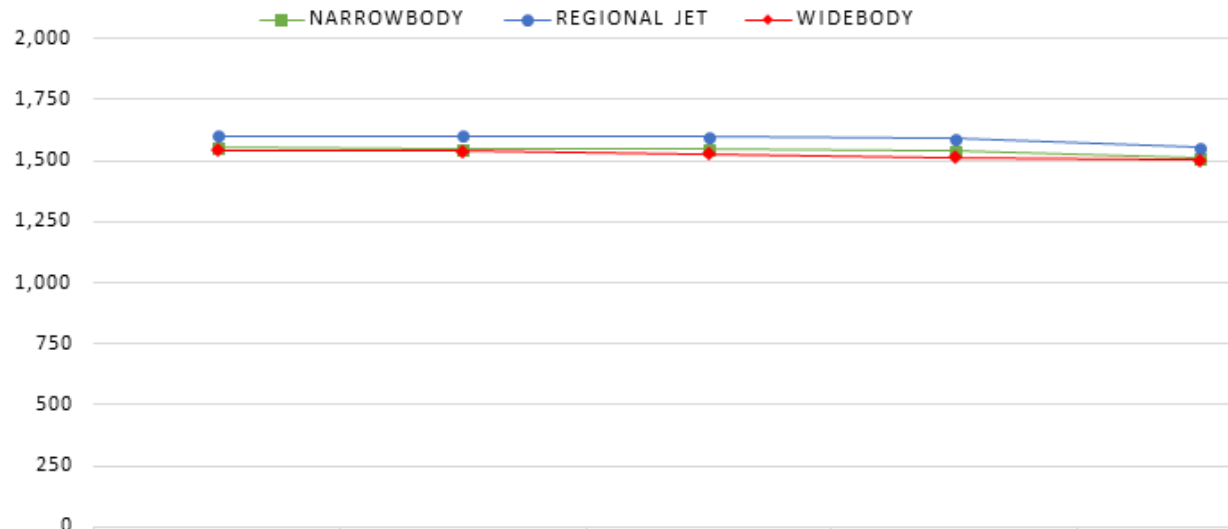


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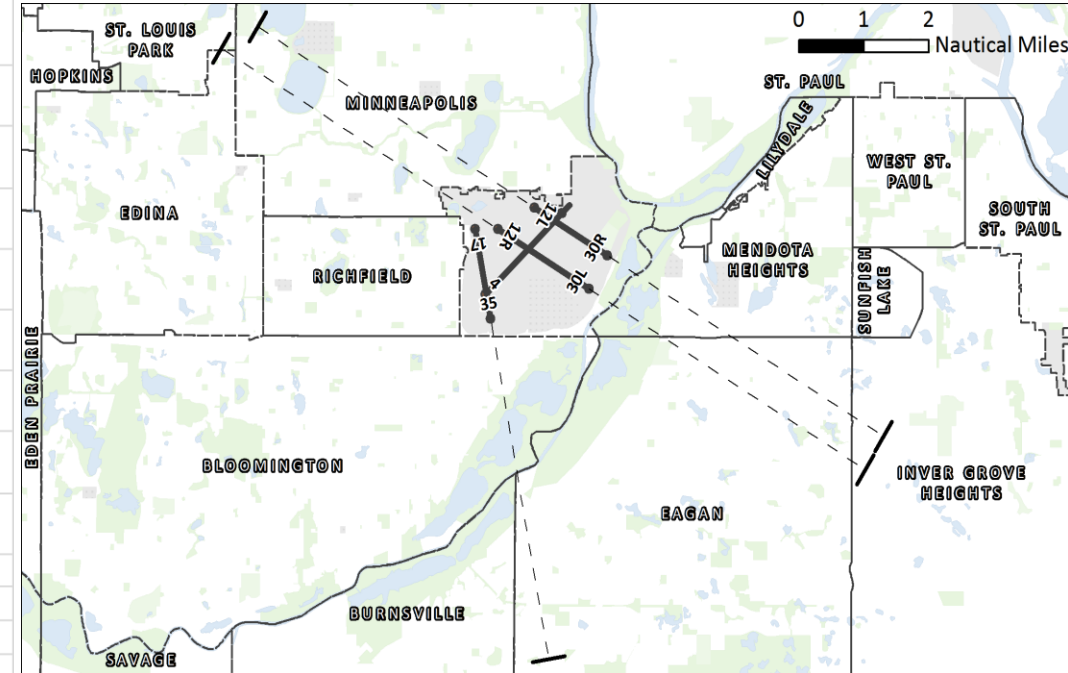


# Item 4: MSP Fleet Mix and Nighttime Operations Report

## AVERAGE ALTITUDE FOR AIRCRAFT ARRIVING TO MSP



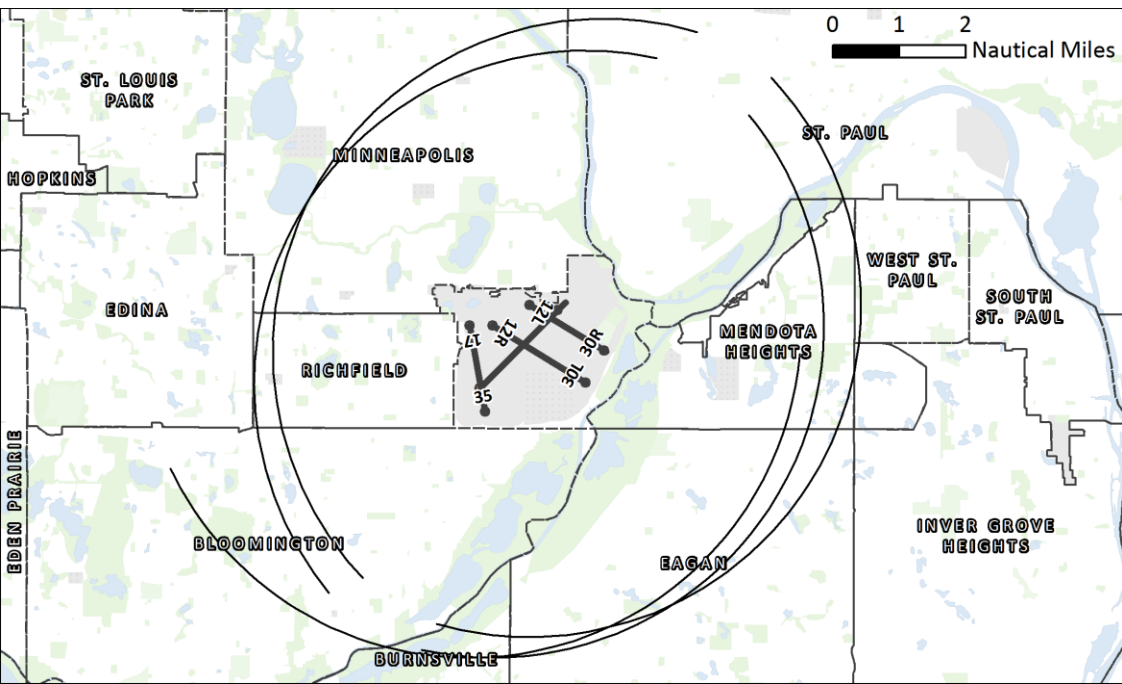
	2014	2015	2016	2017	2018
NARROWBODY	1,553	1,546	1,548	1,538	1,508
REGIONAL JET	1,601	1,601	1,597	1,590	1,554
WIDEBODY	1,542	1,538	1,529	1,515	1,502



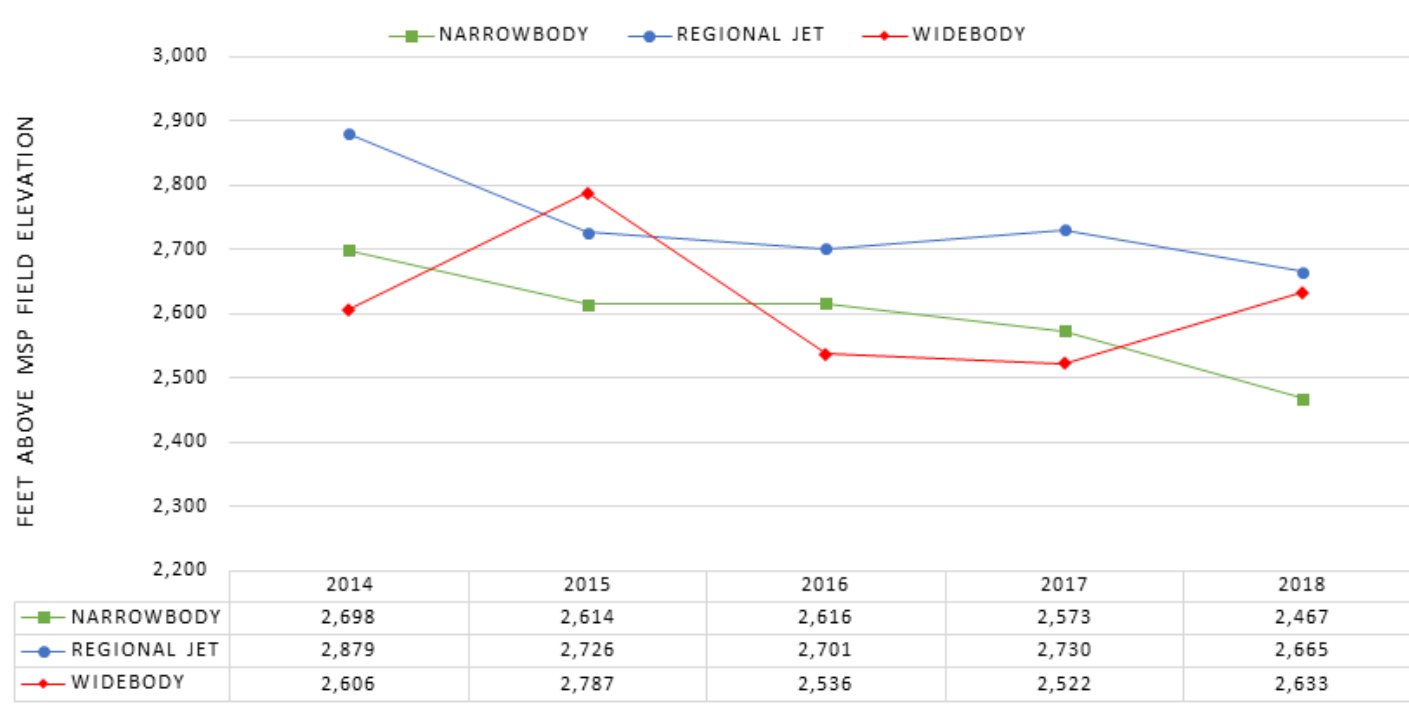
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JANUARY 16, 2019**



# Item 4: MSP Fleet Mix and Nighttime Operations Report



**AVERAGE ALTITUDE FOR AIRCRAFT DEPARTING FROM MSP**

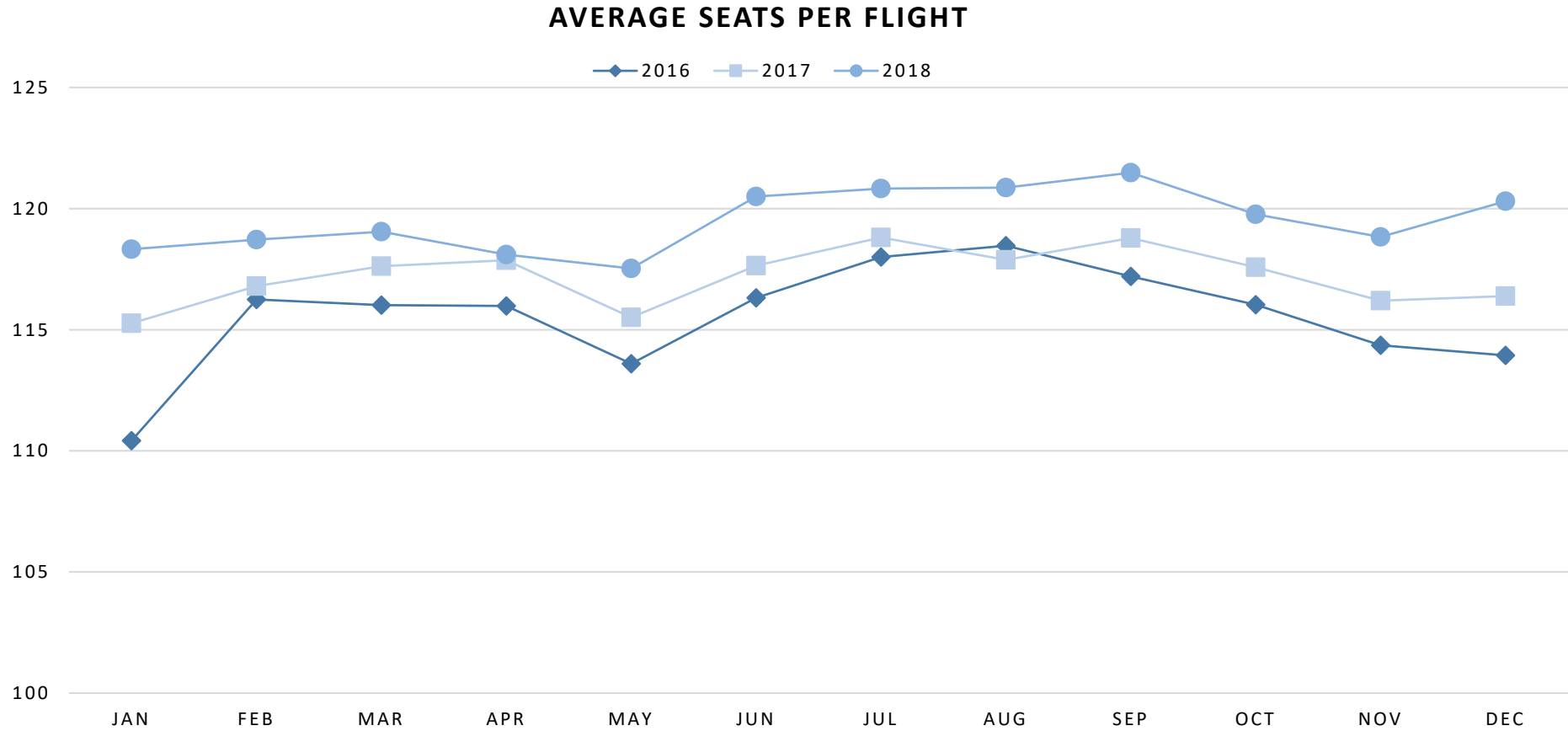


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# Item 4: MSP Fleet Mix and Nighttime Operations Report

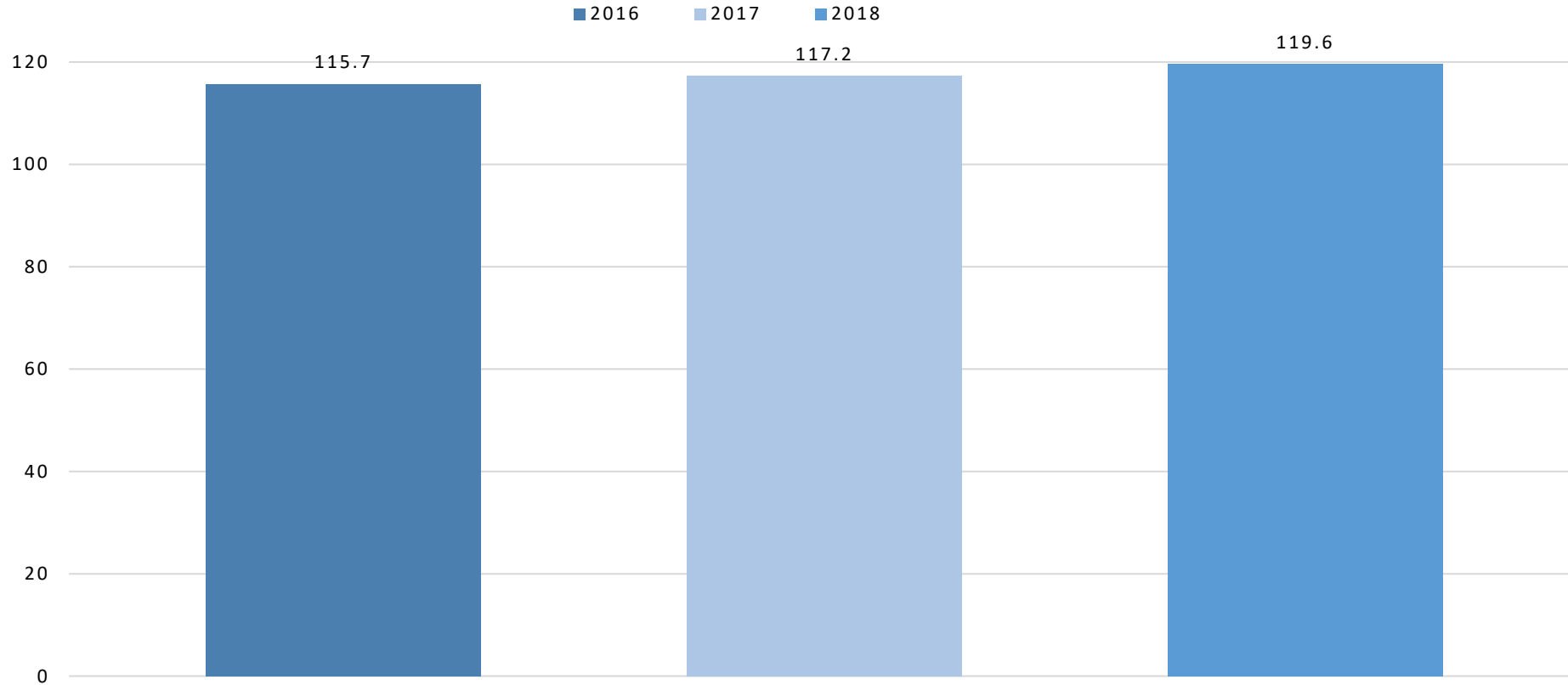


SOURCE: OAG

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## AVERAGE SEATS PER FLIGHT



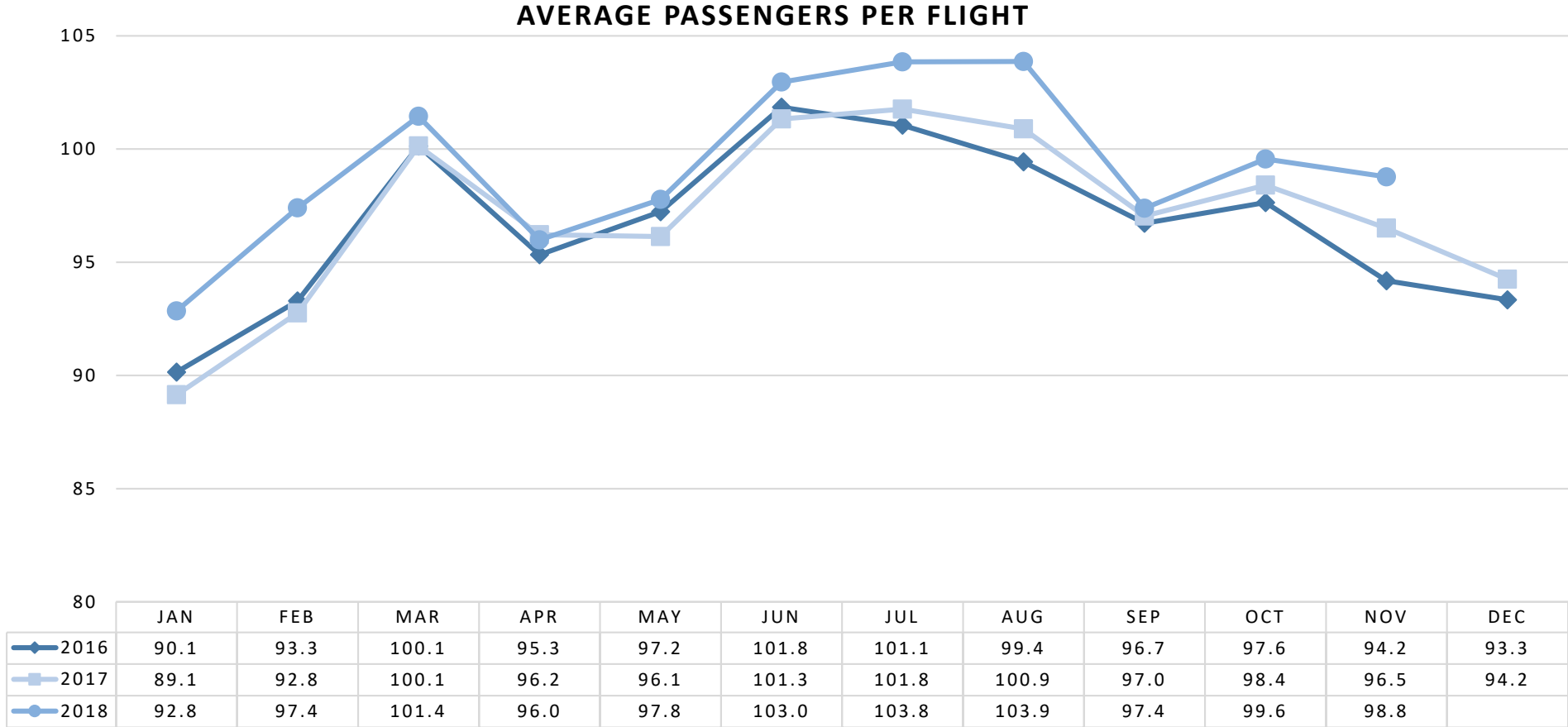
SOURCE: OAG



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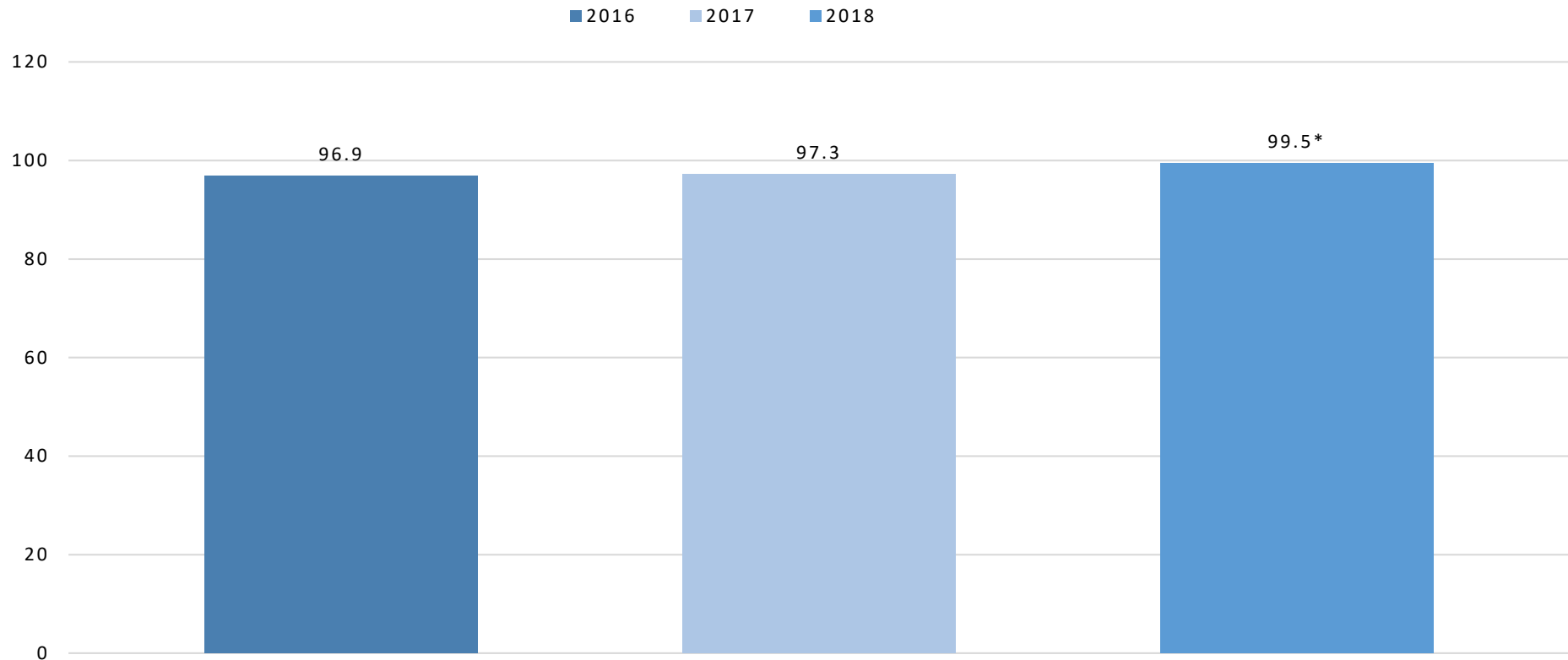
SOURCE: MSP MONTHLY OPERATIONS REPORTS



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## AVERAGE PASSENGERS PER FLIGHT



SOURCE: MSP MONTHLY OPERATIONS REPORTS  
\*2018 DATA INCLUDES JANUARY – NOVEMBER ONLY

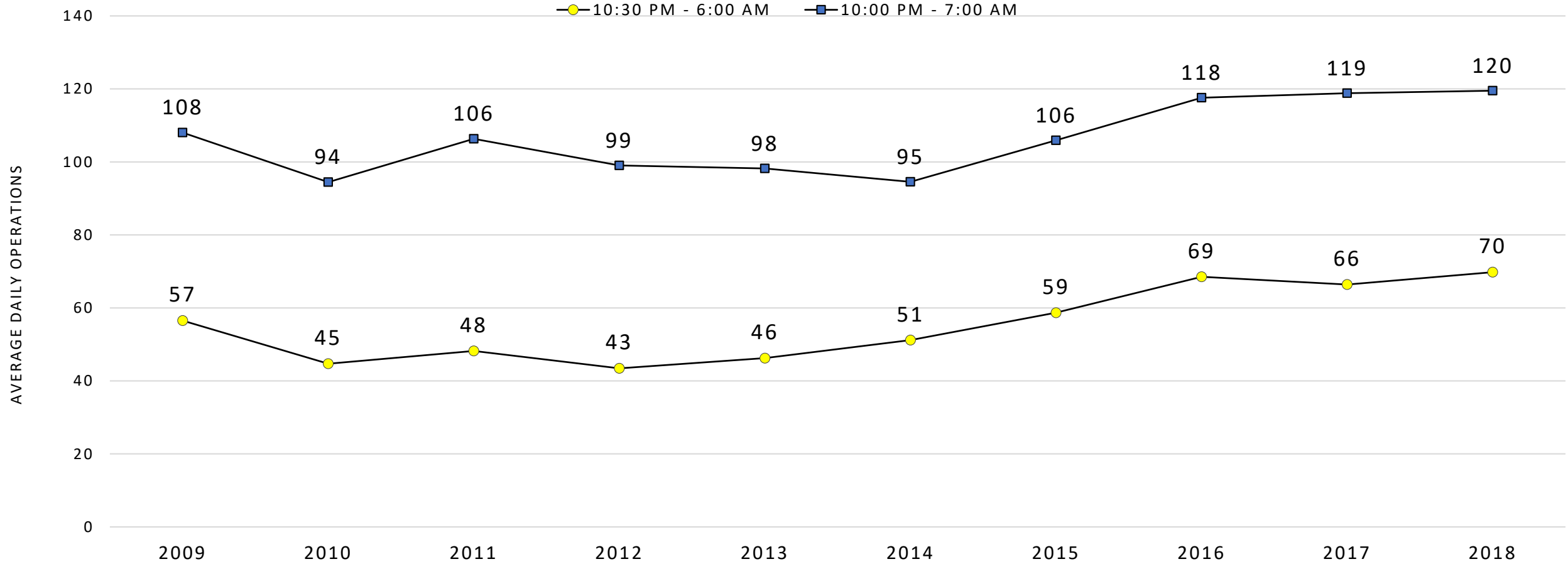


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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## AVERAGE DAILY NIGHTTIME OPERATIONS

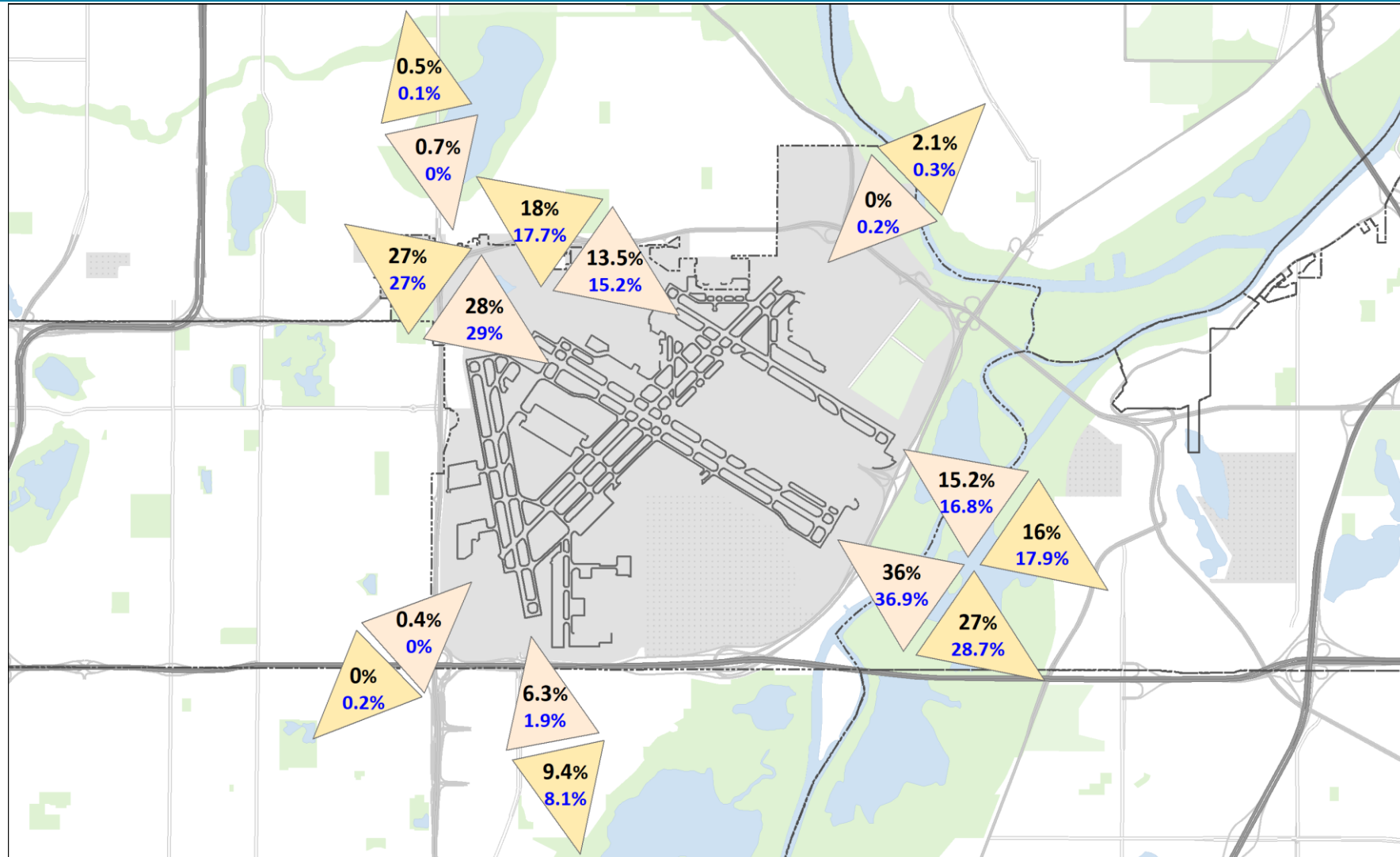


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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## NIGHTTIME OPERATIONS BY RUNWAY



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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## 2018 NIGHTTIME OPERATIONS BY AIRLINE

AIRLINE	ID	COUNT	PERCENT OF AIRLINE OPERATIONS OCCURRING AT NIGHT	PERCENT OF CONTRIBUTION TO NIGHT TIME TOTAL
DELTA	DAL	6,933	4.80%	29.20%
SUN COUNTRY	SCX	3,679	19.00%	15.49%
SKYWEST AIRLINES	SKW	2,523	2.50%	10.63%
SOUTHWEST	SWA	2,188	13.50%	9.21%
AMERICAN	AAL	1,796	12.70%	7.56%
SPIRIT	NKS	1,256	15.00%	5.29%
UNITED	UAL	1,080	14.90%	4.55%
REPUBLIC AIRLINES	RPA	1,028	10.20%	4.33%
UPS	UPS	984	32.20%	4.14%
FEDEX	FDX	726	23.60%	3.06%
ATLAS AIR (USA)	GTI	356	63.70%	1.50%
ALASKA	ASA	324	22.60%	1.36%
ENDEAVOR AIR	EDV	308	1.20%	1.30%
JETBLUE AIRWAYS	JBU	287	20.60%	1.21%
GULF & CARIBBEAN CARGO	TSU	276	94.20%	1.16%



**NOISE OVERSIGHT COMMITTEE  
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# Item 4: MSP Fleet Mix and Nighttime Operations Report

## 2018 NIGHTTIME OPERATIONS BY HOUR

0:00 1:00 2:00 3:00 4:00 5:00 22:30 23:00



## 2015 – 2017 OPERATIONS BY HOUR

0:00 1:00 2:00 3:00 4:00 5:00 22:30 23:00



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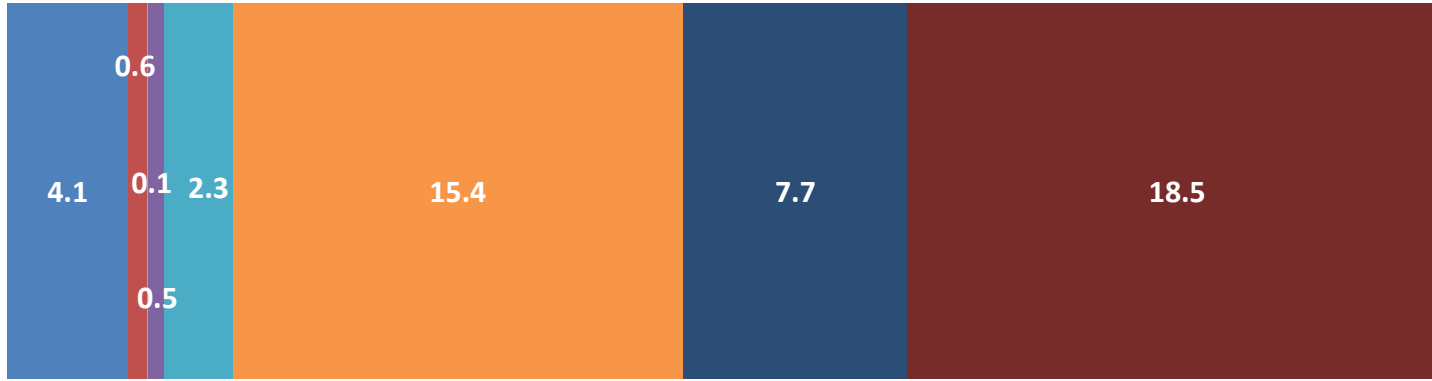




# Item 4: MSP Fleet Mix and Nighttime Operations Report

## 2018 SCHEDULED OPERATIONS BY HOUR

0:00 1:00 2:00 3:00 4:00 5:00 22:30 23:00



## 2018 ACTUAL OPERATIONS BY HOUR

0:00 1:00 2:00 3:00 4:00 5:00 22:30 23:00



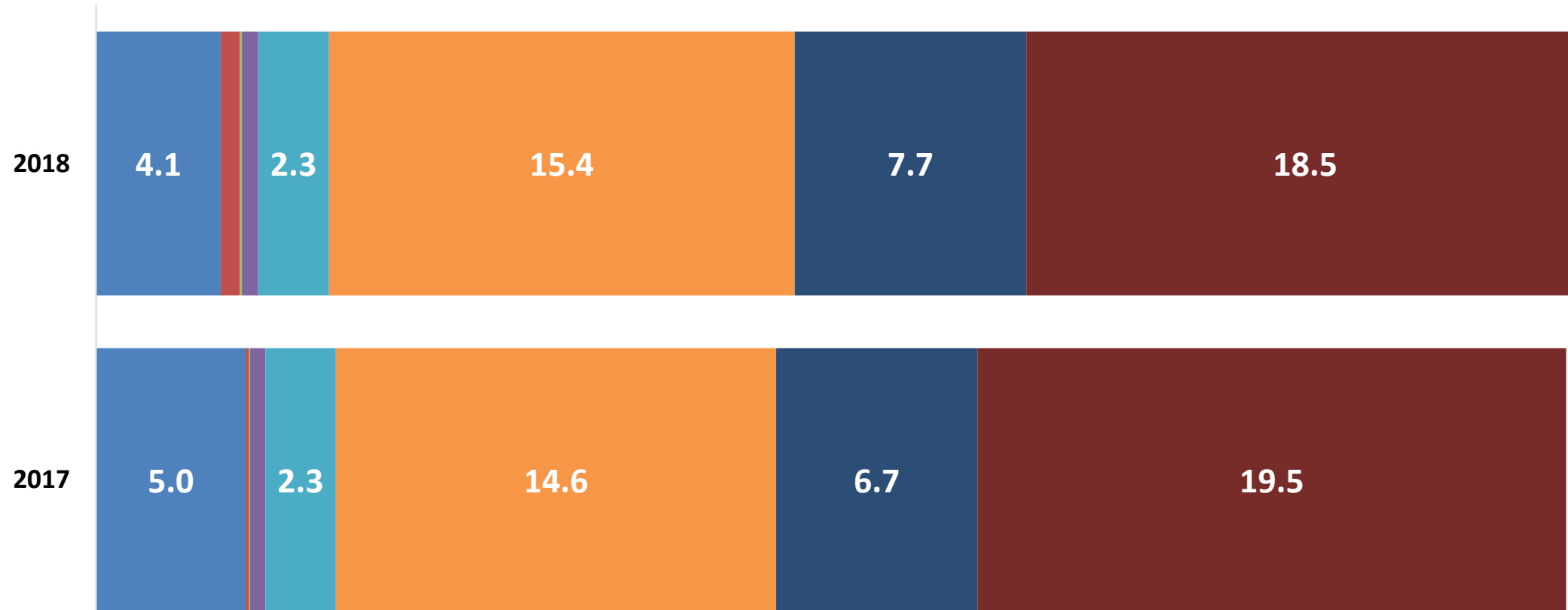
**NOISE OVERSIGHT COMMITTEE  
JANUARY 16, 2019**



# Item 4: MSP Fleet Mix and Nighttime Operations Report

## 2017 VS 2018 SCHEDULED OPERATIONS BY HOUR

0:00 1:00 2:00 3:00 4:00 5:00 22:30 23:00



**NOISE OVERSIGHT COMMITTEE**  
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# ITEM 5

## EAGAN MOBILE NOISE MONITORING STUDY PLAN



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 16, 2019**



## Eagan Noise Monitoring Request

A mobile noise monitoring request was sent from the ARC to the MSP Noise Oversight Committee and was approved at its September 2018 meeting

The goal identified in the request:

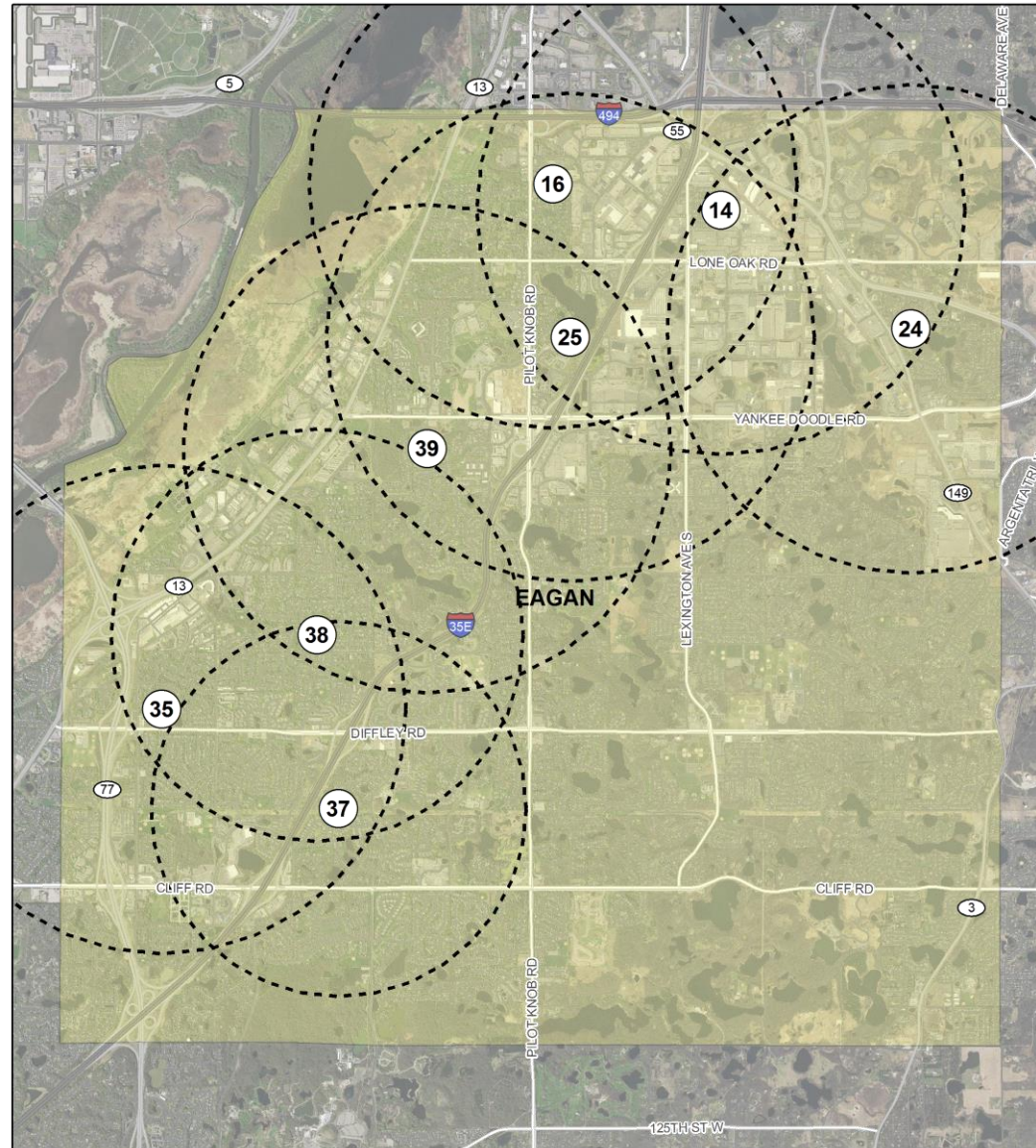
1. Determine if gaps in the RMT coverage area currently exist in the City of Eagan.
2. Determine if two of the RMT closest to Interstate 35-E are properly located to best monitor aircraft noise given the ambient freeway noise.



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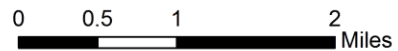


## MAC REMOTE MONITORING TOWER LOCATIONS



○ MAC RMT LOCATIONS IN EAGAN

⋯ RMT BUFFER



## November 2018

RMT	Recorded Events	Valid Aircraft Events	Ratio
14	5572	5240	94.0%
16	6053	5736	94.8%
24	5735	4960	86.5%
25	3647	869	23.8%
35	1073	696	64.9%
37	3666	367	10.0%
38	1198	802	66.9%
39	1228	994	80.9%



## Study Purpose

Collect quality recordings and measurements of aircraft noise events associated with MSP Airport that occur in the City of Egan, in accordance with established Mobile Sound Monitoring Guidelines. The objective of the study is to compare data collected from the mobile equipment with data being collected at the RMTs 25 and 37.



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## Timing and duration of the study

Target start date of Wednesday, May 1, 2019 with data collection for two consecutive weeks.

The data will be presented in a report at the July 9 Egan ARC and July 17 NOC meetings.



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### Number of mobile noise monitors and siting criteria

2 locations in accordance with established Mobile Sound Monitoring Guidelines as follows:

- Located to monitor aircraft operations at MSP
  - Under known aircraft flight paths
- Where flight operations are at altitudes, concentrations, and configurations creating sound levels above community sound levels
- Away from known community sound sources (such as large arterial roads, train tracks, factories, and transit centers and other gathering spots)
- In areas where the permanent sound monitoring sites are not already monitoring aircraft noise levels
- Predominantly residential
- Within 100 feet of electrical power
- On public property



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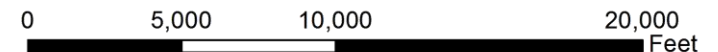
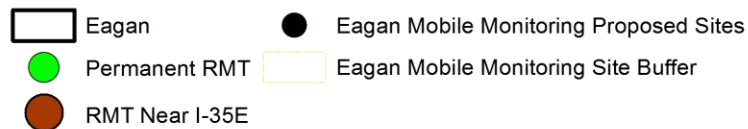
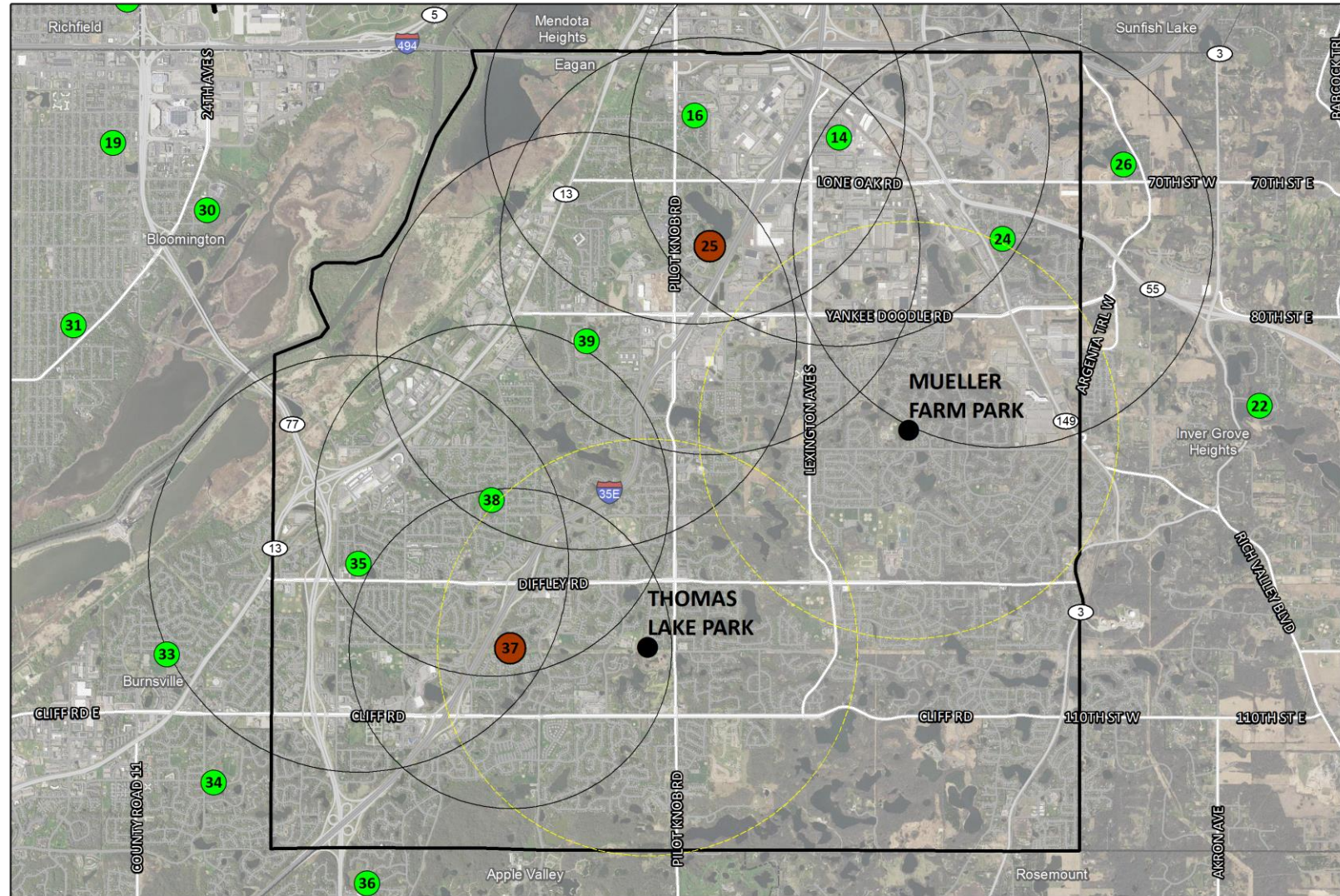


# Item 5: Eagan Mobile Noise Monitoring Study Plan

## Locations

1. Thomas Lake Park
2. Mueller Farm Park

The Eagan ARC requested **O'Leary Park** to be the alternate site in the event that either of the above targeted locations pose unforeseen challenges.



## What the data will provide

- A comparison of sound data collected from the mobile equipment and sound data collected at permanent noise monitoring sites in Egan will reveal if gaps exist.
- An assessment of mobile data collected will determine aircraft noise levels and community noise levels in the areas where the mobile equipment is placed.

## What the data will not provide

- Residential sound insulation eligibility
- Changes to annual noise contours at MSP



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# ITEM 6

## EVALUATE NOISE MANAGEMENT BENCHMARKING STUDY FINDINGS AND CONSIDERATIONS



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# BEST PRACTICES FOR AIRPORT NOISE OFFICES

- **TRANSPARENCY**

- → Reporting
- → Interactive and up-to-date noise website
- → Informing community
- → Share data

- **RESPONSIVENESS**

- → Responding to noise complaints
- → Engaging with community
- → Open dialogue
- → Technology

## COLLABORATION

- Partner with stakeholders
- Look ahead
- Plan



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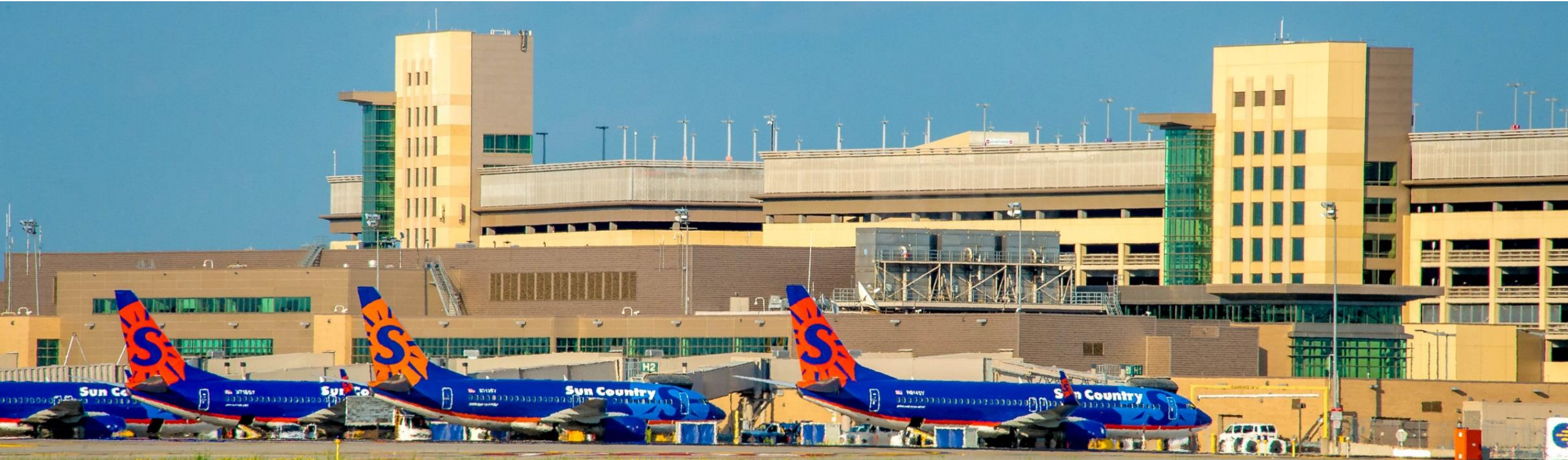
# STUDY FINDINGS AND CONSIDERATIONS

1. Take noise complaints from non-residential addresses
  - 73% of airport respondents accept noise complaints from non-residential addresses
  - Revisions to MAC's Aircraft Activity Complaint guidelines
  - A residential address is not required to log an aircraft noise complaint
2. Live-stream NOC meetings
  - 29 of 54 airports responded they have a standing noise committee
  - Two airports offer a live-stream video recording of noise committee meetings
  - Requires investment in upgrades to Lindbergh Conference Room, staff and vendor support
  - The MAC's CIP does not include room upgrades
3. Provide real-time alerting to the FAA for established noise abatement procedures to increase compliance and awareness
  - 56% of airport respondents report they have voluntary noise abatement procedures
  - MAC regularly reports compliance with four noise abatement procedures
  - Last December, staff developed and implemented a Noise Abatement Dashboard to alert staff and ATC real-time excursions from voluntary noise abatement procedures



# ITEM 7

## 2019 NCAA FINAL FOUR AIRCRAFT ACTIVITY UPDATE



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## You may have heard...

- More activity beginning Wed 4/3 and continuing through Tue 4/9
- MSP expects to have 100 more private flights
- Charter flights with team booster clubs, friends and family will bring in an additional 10-15 flights during the event
- Between 40,000-50,000 people are expected to fly out of MSP during the peak departure day (Tue 4/9)
- The MAC general aviation reliever airports are also expecting to see more flight activity
- Low-flying helicopters may be seen from the ground and high-rise buildings in and around Minneapolis at the end of March and throughout the first week of April



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The MAC anticipates arrivals will peak in the hours leading up to the Semifinal games on...

and departures will peak after the National Championship game...

and into the following day...

**April 6**  
Tuesday

**April 8**  
Monday

**April 9**  
Tuesday







Predominantly, increased flights will be in corporate jets and turboprop aircraft



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## MSP Final Four Community FACT SHEET

### You may have heard...

The 2019 NCAA Final Four is coming to Minnesota. The event is expected to draw thousands of people to the Twin Cities. For many, their first stop is the Minneapolis-St. Paul International Airport (MSP). MSP is preparing to meet the needs associated with this event to ensure a high level of service for our passengers, while being mindful of neighboring communities. There are a few things we wanted to share so you know what to expect during this busy time.



### What you can expect...

- More flight activity at MSP is expected between Wednesday, April 3 and Tuesday, April 9 (the National Semifinal games will be Saturday, April 6 and the National Championship is Monday, April 8).
- During the week leading up to Saturday's Semifinal games and the day after the National Championship, MSP expects to have 100 more private flights.
- Corporate jets and turboprop aircraft, like the ones pictured, will be used more than normal during all hours of the day and night, including the early morning hours and later into the evening.
- Charter flights with team booster clubs, friends and family will bring in an additional 10-15 flights during the event.
- Low-flying helicopters conducting security surveillance may be seen from the ground and high-rise buildings in and around Minneapolis at the end of March and throughout the first week of April.

Post on  
macnoise.com

Distribute at  
January and  
March NOC  
meetings

Email to NOC  
members

Share at the  
Winter Listening  
Session

## Reliever Airport Fact Sheet



## MAC GA Final Four Community FACT SHEET

### You may have heard...

The 2019 NCAA Final Four is coming to Minnesota. The event is expected to draw thousands of people to the area and the Metropolitan Airports Commission (MAC) is preparing its airport facilities to accommodate those traveling by air.

Many event-goers traveling to and from the Twin Cities will use commercial airline services at Minneapolis-St. Paul International Airport (MSP); many others will use non-commercial aviation services, like those that operate at the MAC's general aviation airports.



### Those airports include:

- STP: St. Paul Downtown Airport in St. Paul
- ANE: Anoka County-Blaine Airport in Blaine
- FCM: Flying Cloud Airport in Eden Prairie
- MIC: Crystal Airport in Crystal
- LVN: AirLake Airport in Lakeville
- 21D: Lake Elmo Airport in Lake Elmo

The MAC is preparing to meet the increase in demand while ensuring a high level of service and being mindful of neighboring communities.

### What you can expect...

- During the week leading up to the National Championship game and one day after (April 1-9, 2019), MAC expects to have more aircraft taking off and landing than usual at each of its airports.
- We anticipate the highest volume of flights to occur from Wednesday, April 3rd through Tuesday, April 9th.



# ITEM 8

## ANNOUNCEMENTS

### Winter Listening Session

Wednesday, January 23, 2019 @ 7:00 PM

MAC General Offices

Lindbergh Conference Room

### March NOC Meeting

Wednesday, March 20, 2019 @ 1:30 PM

MAC General Offices

Lindbergh Conference Room



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