



# NOISE OVERSIGHT COMMITTEE

January 31, 2024

*Recordings are made of this meeting*

# Agenda

## 1. Consent

1.1 Approval of November 15, 2023 and November 29 2023 Meeting Minutes

### 1.2 Reports

1.2.1 Monthly Operations Reports: November and December 2023

1.2.2 Review of Winter Listening Session

## 2. Public Comment

## 3. Business

3.1 Nomination and Election of Airport User Co-Chair

3.2 RNAV Procedure Review Sub-Committee Recommendations

## 4. Information

4.1 2023 Fleet Mix and Nighttime Operations Assessment

4.2 2023 Complaint Data Assessment

4.3 Meet the Fleet

## 5. Announcements

## 6. Adjourn



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**

# 1.1 APPROVAL OF NOV 15, 2023 AND NOV 29, 2023 MINUTES



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

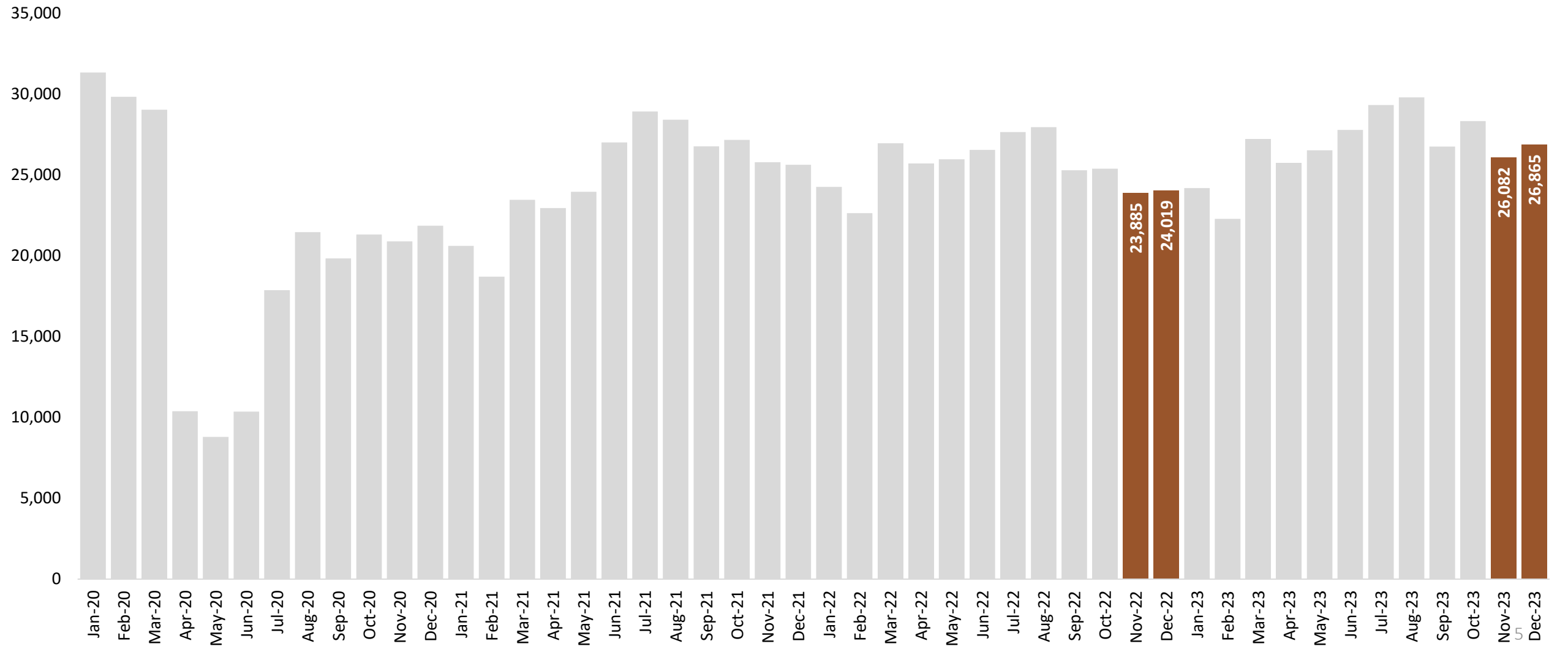
# 1.2.1 MONTHLY OPERATIONS REPORTS: NOV AND DEC 2023



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**

# MSP OPERATIONS

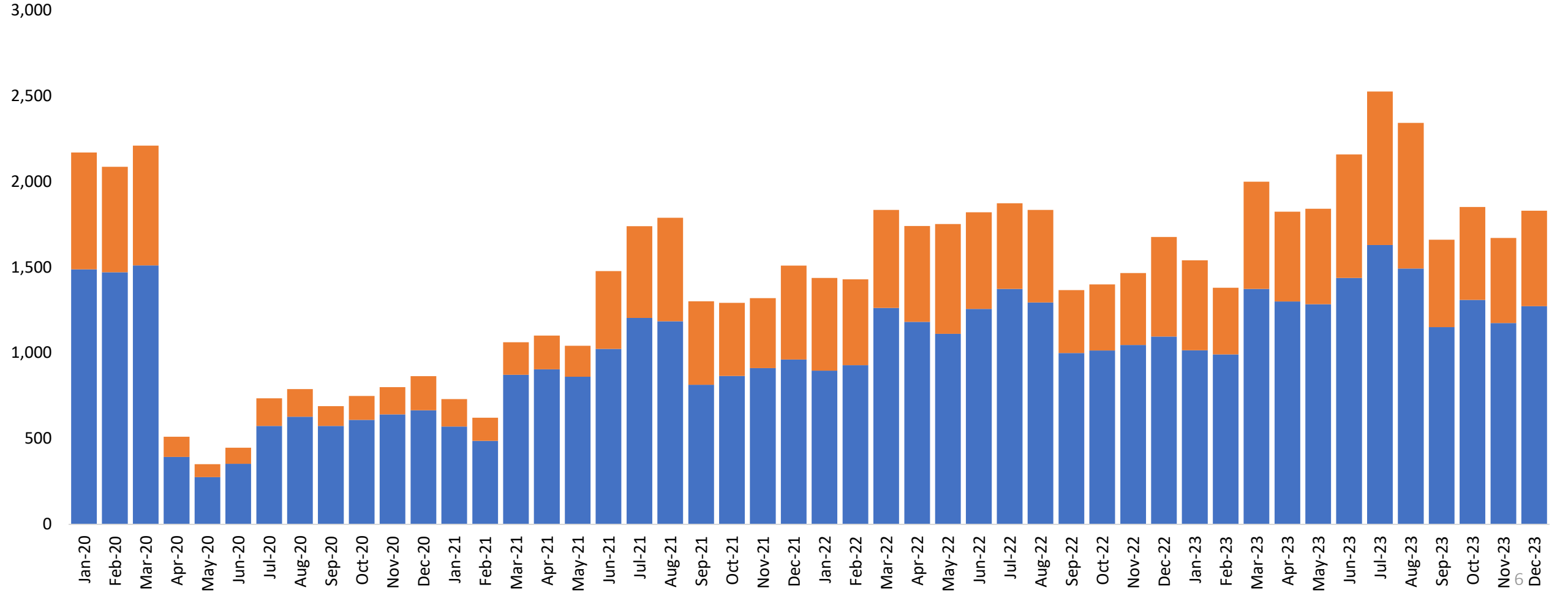
November 2023		December 2023	
<b>26,082</b> Operations	<b>1,671</b> Nighttime Operations (10:30 PM – 6:00 AM)	<b>26,865</b> Operations	<b>1,830</b> Nighttime Operations (10:30 PM – 6:00 AM)



# MSP OPERATIONS

November 2023		December 2023	
<b>26,082</b>	<b>1,671</b>	<b>26,865</b>	<b>1,830</b>
Operations	Nighttime Operations (10:30 PM – 6:00 AM)	Operations	Nighttime Operations (10:30 PM – 6:00 AM)

■ A ■ D



# RUNWAY USE

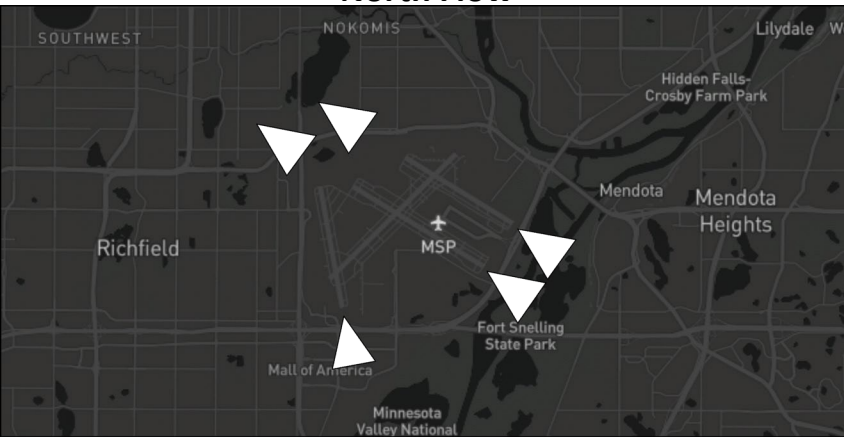
NOV 2023		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
35%	33%	23%

DEC 2023		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
30%	53%	12%

2022 JAN – DEC		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
41%	44%	7%

2023 JAN – DEC		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
32%	49%	12%

**North Flow**



**South Flow**



**Mixed Flow**



# NOV – DEC RUNWAY USE

**52,947**  
OPERATIONS IN NOV – DEC

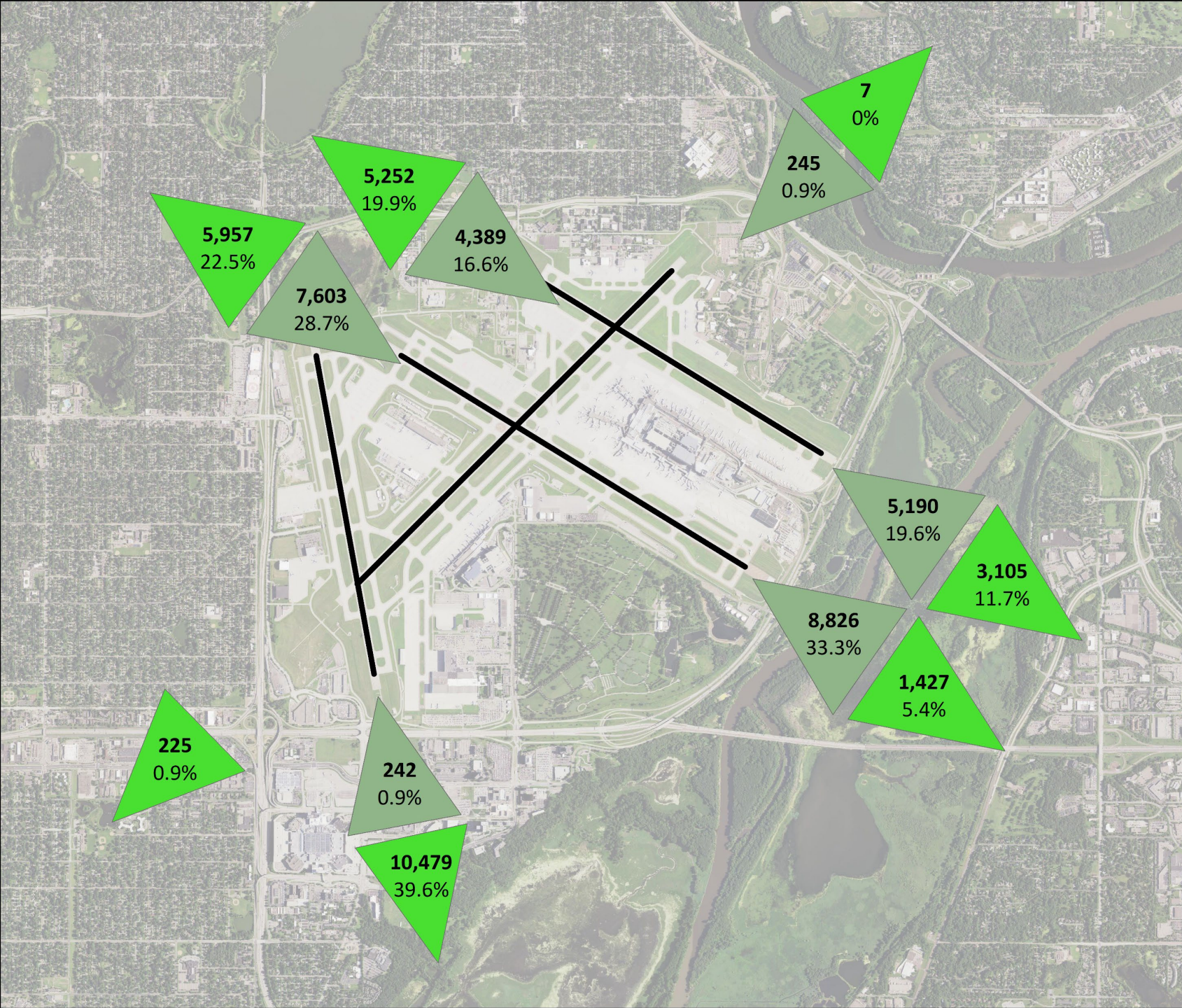
PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
<b>35%</b>	<b>20%</b>	<b>1%</b>	<b>44%</b>

**26,495**  
ARRIVALS

PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
<b>53%</b>	<b>1%</b>	<b>1%</b>	<b>45%</b>

**26,452**  
DEPARTURES

PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
<b>17%</b>	<b>40%</b>	<b>1%</b>	<b>42%</b>

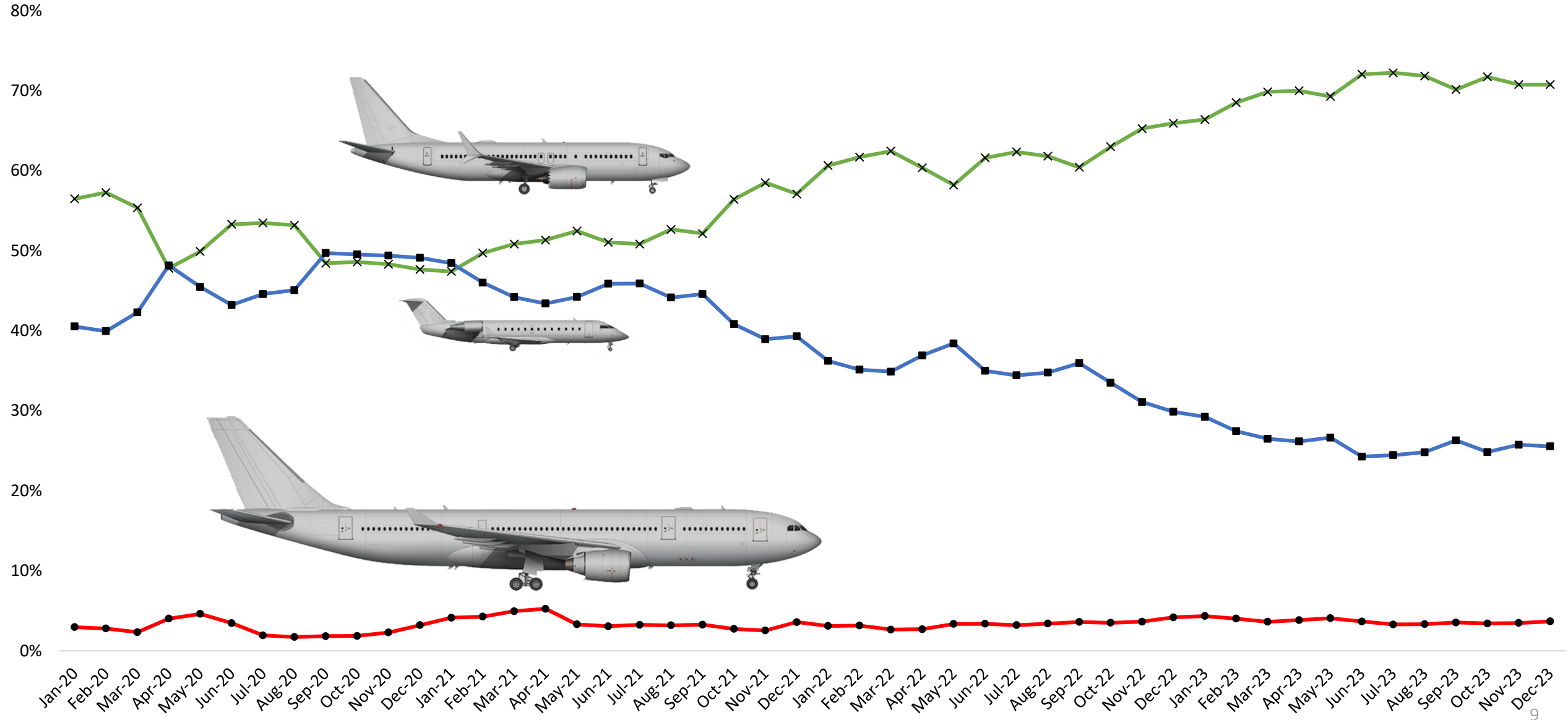




# MSP OPERATIONS

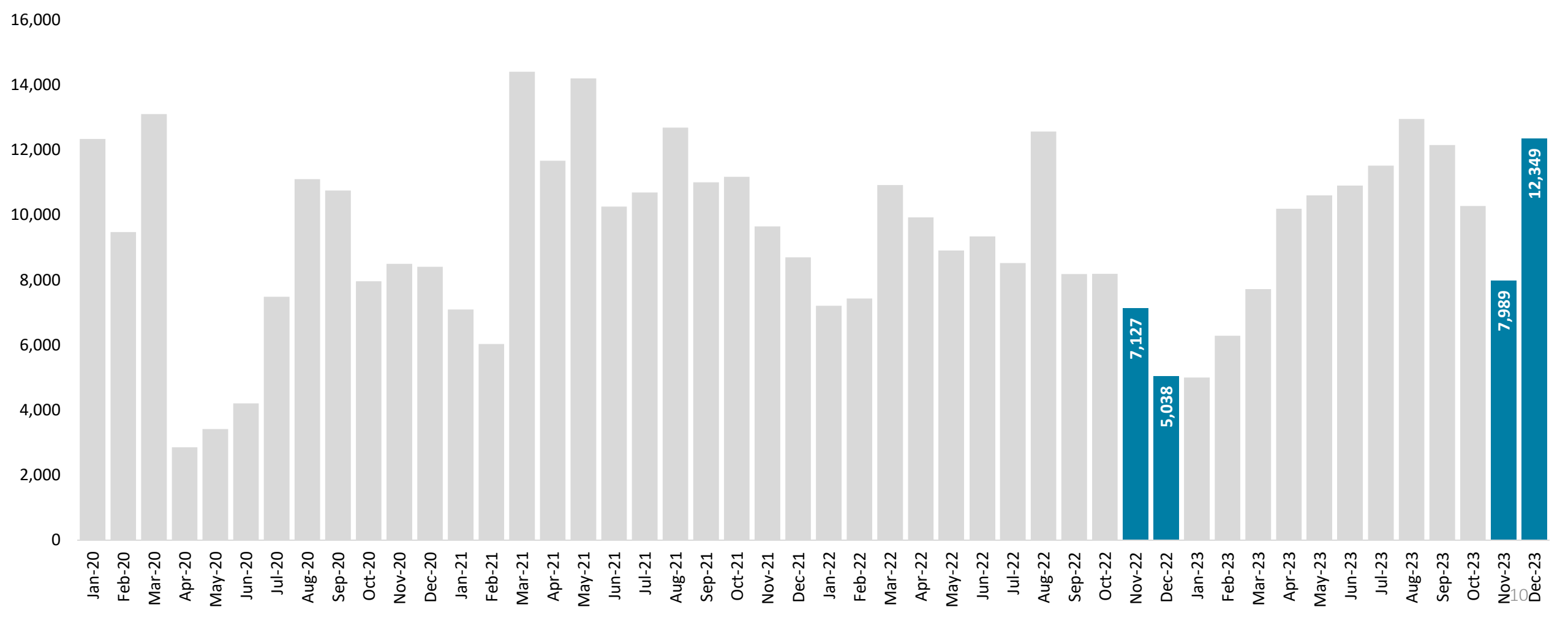
## CARRIER JET FLEET MIX

—x— NARROWBODY —■— RJ —●— WIDEBODY



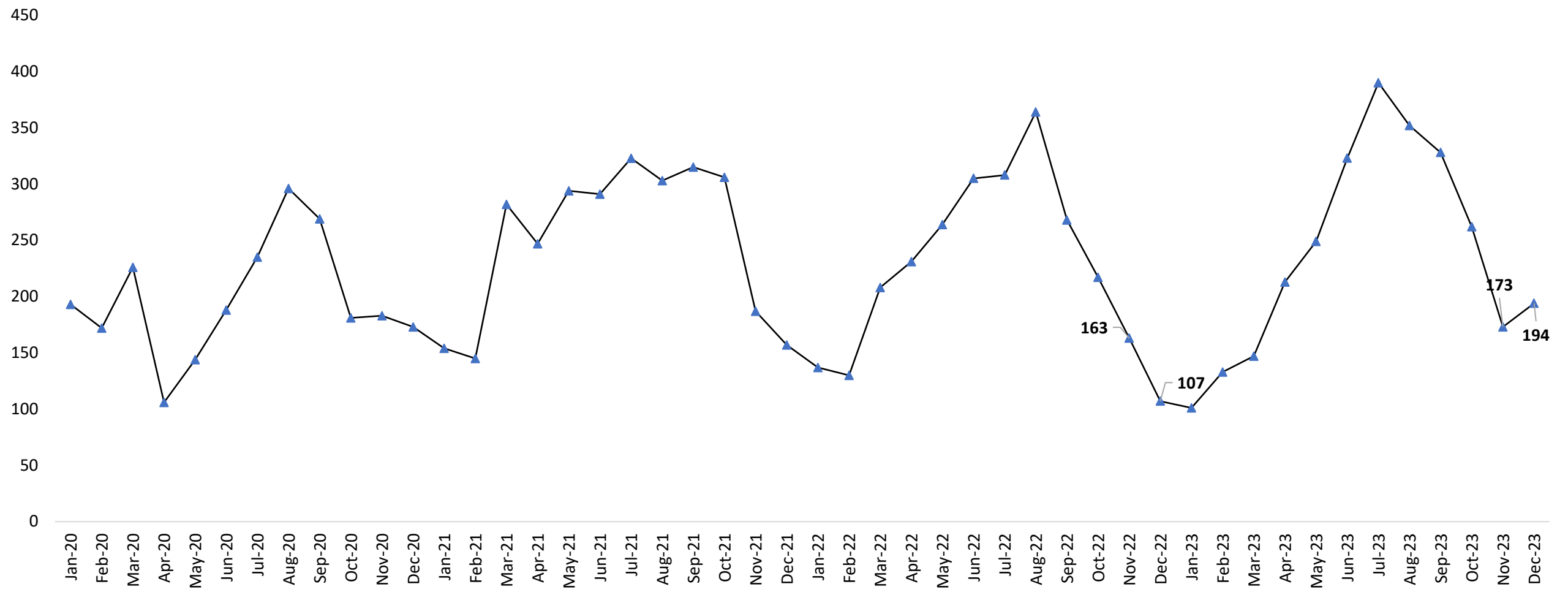
# MSP COMPLAINTS

November 2023				December 2023			
COMPLAINTS		LOCATIONS		COMPLAINTS		LOCATIONS	
7,989		173		12,349		194	
Ops per Complaint	New Locations	Average	Median	Ops per Complaint	New Locations	Average	Median
3.3	12	46	5	2.2	19	64	6



# MSP COMPLAINTS

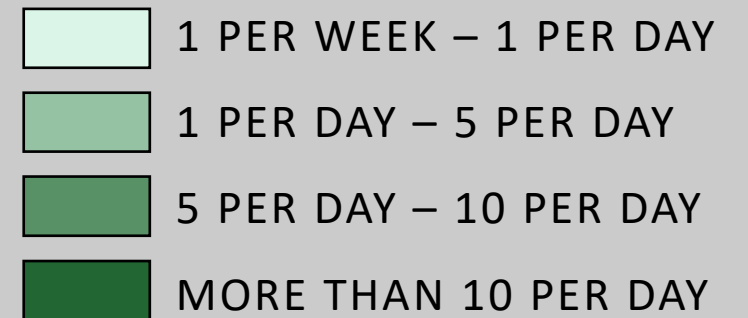
November 2023				December 2023			
COMPLAINTS		LOCATIONS		COMPLAINTS		LOCATIONS	
7,989		173		12,349		194	
Ops per Complaint	New Locations	Average	Median	Ops per Complaint	New Locations	Average	Median
3.3	12	46	5	2.2	19	64	6



# TOTAL COMPLAINTS

**20,388**  
COMPLAINTS

**250**  
HOUSEHOLDS



# TOP 10 LOCATIONS



3,116



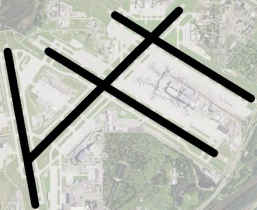
398



1,775



3,190



496



2,119



1,047



341



416



652

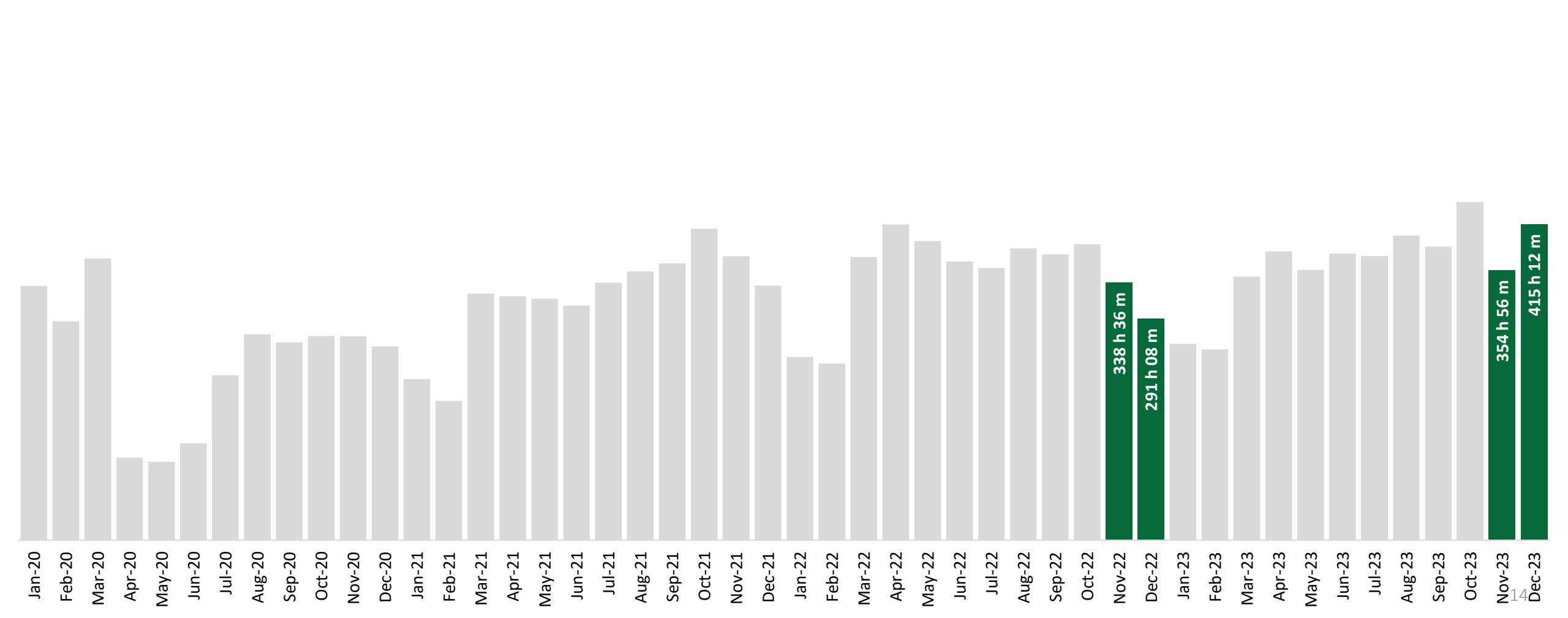
FILED  
**13,550**  
(67%)  
COMPLAINTS DURING NOV & DEC

**7 OF 10**  
LOCATIONS WERE IN THE TOP 10  
FOR SEPT – OCT DATA

**154**  
(62%)  
LOCATIONS FILED 10 OR FEWER  
COMPLAINTS

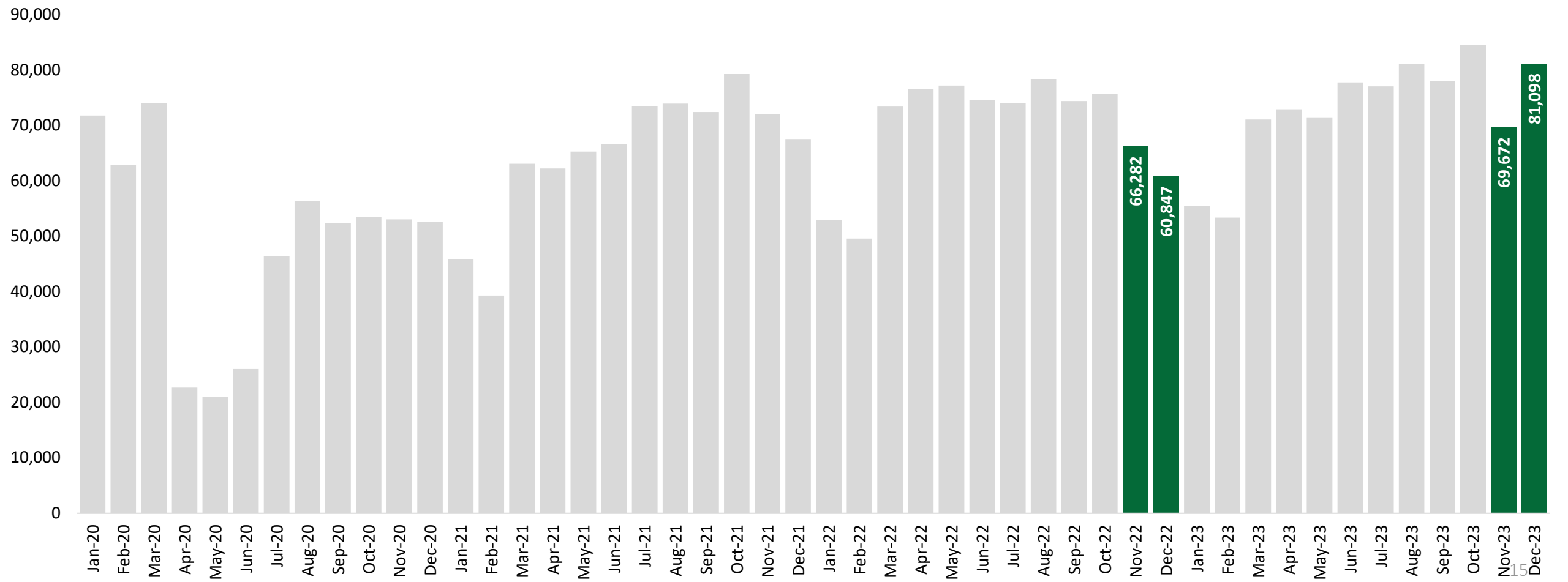
# SOUND MONITORING

November 2023			December 2023		
Time Above	49 TA <sup>65</sup> Per Operation	354 h 56 m TA <sup>65</sup>	Time Above	56 TA <sup>65</sup> Per Operation	415 h 12 m TA <sup>65</sup>
Count Above	2.67 N <sup>65</sup> Per Operation	69,672 N <sup>65</sup>	Count Above	3.02 N <sup>65</sup> Per Operation	81,098 N <sup>65</sup>



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Count Above	2.67 N <sup>65</sup> Per Operation	69,672 N <sup>65</sup>	Count Above	3.02 N <sup>65</sup> Per Operation	81,098 N <sup>65</sup>



# NOISE ABATEMENT

November 2023

<b>Runway 17</b>	<b>99.1%</b>
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<b>EMH Corridor</b>	<b>97.1%</b>
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<b>Cross Day</b>	<b>29.1%</b>
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<b>Cross Night</b>	<b>48.5%</b>
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December 2023

<b>Runway 17</b>	<b>99.8%</b>
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<b>EMH Corridor</b>	<b>93.7%</b>
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<b>Cross Day</b>	<b>26.8%</b>
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<b>Cross Night</b>	<b>32.8%</b>
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**RUS**

**57.1%**

Arrive - 64%

Depart - 51%

**RUS**

**53.5%**

Arrive - 44%

Depart - 63%



# 1.2.2 REVIEW OF WINTER LISTENING SESSION



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

# Winter Listening Session

- January 24, 2024, 6pm
- MAC General Offices
- Meeting Attendees
  - 1 resident from Eagan, 1 from Edina, 2 from Mendota Heights
  - NOC members Sarah Alig, John Bergman, Kevin Gallatin, and Loren Olson
  - FAA staff
  - MAC staff
- Topics discussed
  - FAA's preliminary draft RNAV departure procedure updates
  - Ground noise



# ITEM 2

## PUBLIC COMMENT PERIOD



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**

# ITEM 2

## PUBLIC COMMENT PERIOD

### Speaking at a Meeting

- Each speaker will have one opportunity to speak and is allotted three (3) minutes.
- When called upon to speak, speak clearly, 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.
- No response from the NOC is provided during the comment period.
- Comments are noted, and MAC staff are available following the meeting to answer questions or contact information can be provided for follow up discussion.
- Use of profanity, personal attacks, or threats of violence will not be tolerated.



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**

# 3.1 – NOMINATION AND ELECTION OF AIRPORT USER CO-CHAIR



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

# Election of Co-Chairs – Article V

The airport user and community segments of the Committee shall each select a Co-Chairperson who will serve at the pleasure of the appointing group. Each Co-Chairperson will serve for a two-(2) year term or until his/her representation on the Committee terminates, or until replaced by the appointing group, whichever occurs first.

The powers and duties of the Co-Chairpersons are as follows:

- To review agendas.
- To preside over meetings - the presiding Chairperson will alternate every other meeting.
- By the mutual consent of the Co-Chairpersons, special meetings may be called, or upon request of a majority of the Committee, four (4) users and four (4) community representatives.
- To sign as Co-Chairpersons of this Committee, all instruments in writing that may require such signature, unless the membership shall otherwise direct, and to perform such other duties and tasks as these Bylaws or as the membership shall from time to time prescribe.
- Each segment of the Committee, by a majority vote, shall elect their respective Co-Chairperson

# Action Requested

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CONDUCT AIRPORT USER CO-CHAIR NOMINATIONS AND ELECTIONS TO ESTABLISH THE AIRPORT USER CO-CHAIR TO SERVE FROM JANUARY 31, 2024 THROUGH JUNE 25, 2025.



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

# 3.2 – RNAV PROCEDURE REVIEW SUB-COMMITTEE RECOMMENDATIONS



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**



# RNAV Procedure Review Sub-Committee Overview

- RNAV Procedure Review Sub-Committee was established at the September 20, 2023 meeting of the NOC.
- Sub-Committees tasked with:
  - Reviewing FAA's preliminary proposed RNAV procedures for MSP.
  - Reviewing potential changes to the noise environment around MSP.
  - Reviewing FAA's communication and engagement activities to inform the public about the FAA's procedures.
- The Sub-Committee will remain effective until the new departure procedures have been implemented or until December 31, 2025, whichever is later.
- The Sub-Committee includes an equal balance of airport user and community representatives.
  - User Members
    - User Co-Chair
    - Chief Pilot representative
    - Scheduled airline representative
  - Community Members
    - Community Co-Chair
    - City of Minneapolis representative
    - City of Eagan representative

# RNAV Procedure Review Sub-Committee Update

- Reviewed FAA's preliminary proposed procedures and engagement activities
- Developed draft recommendations for NOC consideration
  - Unanimous NOC endorsement on November 29, 2023
  - 14 engagement recommendations
  - 3 procedural recommendations
- FAA responded to the NOC's submitted recommendation on January 5, 2024
- Additional draft recommendations have been provided as an addendum to the agenda packet

# Nov 29, 2023 NOC Recommendations to the FAA

## ***FAA provide opportunities for meaningful public engagement***

- Seek community input, not simply inform
  - Allow time for public input to shape the outcome.
  - Thoughtfully consider all input received.
  - Clarify why any input received is not feasible.

## ***FAA provide additional opportunities to engage with the public***

- FAA's Community Involvement Manual acknowledges that meeting with specialized groups (such as NOC or MAC) may not entirely capture views of the community.
  - Conduct broader public engagement efforts.
  - Utilize a combination of public workshop techniques to reach communities.

# Nov 29, 2023 NOC Recommendations to the FAA

- ***FAA increase transparency and communicate effectively***
  - Recognize and develop a communication approach that considers community sensitivity to RNAV design and information gaps based on previous projects.
    - Explain benefits and efforts made to consider noise and incorporate community concerns into the proposed design.
    - Present in a manner that is accessible to non-technical audiences with translation services made available if requested.
    - Use of creative tools to increase community understanding (i.e. online illustrative and interactive tools).

# Nov 29, 2023 NOC Recommendations to the FAA

- ***FAA increase transparency and communicate effectively***
  - During the public workshops, communicate the impact of the procedures to residents, anticipated changes in noise exposure and what it means for them and their experience of aircraft over their homes today.
  - Advertise the public workshops to communities across the Minneapolis/St. Paul Twin Cities area.
  - Increase public awareness and clarify opportunities for public participation by:
    - Share details with the NOC about the timelines, technical design steps, and engagement required to implement the procedures to decommission the MSP VOR on schedule.
    - Providing NOC members with information that can be shared with their stakeholders.



# Nov 29, 2023 NOC Recommendations to the FAA

- *FAA identify additional opportunities for proposed procedures to replicate existing flight paths*
  - Include more dispersion similar to how departures fly today with the goal of spreading out tracks and preventing concentration.

# Nov 29, 2023 NOC Recommendations to the FAA

- November 29, 2023
  - Special NOC Meeting
  - Unanimous NOC endorsement of Sub-Committee recommendations
  - NOC submitted recommendations to the FAA

# FAA Response to Nov 29, 2023 NOC Recommendations

- In a letter to the NOC dated January 5, 2024, the FAA stated:
  - FAA's commitment to multi-faceted engagement and a two-way dialogue with the public
  - FAA will consider comments received by the public during the public comment period in Summer 2024 and review procedural input for feasibility, safety, and efficiency
  - review of noise impacts and other environmental factors under NEPA will be led by the FAA and begin later in 2024
  - FAA will host public workshops live on a virtual platform and recorded
  - the NOC and the MAC will continue to play a vital role with the FAA to develop and discuss next steps





# Jan 31, 2024 Draft NOC Recommendations to the FAA



# Jan 31, 2024 Draft NOC Recommendations to the FAA

- ***FAA provide opportunities for meaningful public engagement***
  - Provide a public comment period of up to 60 days.
  - Avoid scheduling public workshops during major holidays.
  - Provide in-person FAA personnel for at least one hybrid meeting.
- ***FAA increase transparency and communicate effectively***
  - Lead the communication and engagement effort.
  - Provide educational materials as soon as possible including any benefits of the proposed procedures.
  - Include all common MSP runway configurations in analyses and communication materials.

# Jan 31, 2024 Draft NOC Recommendations to the FAA

- ***FAA effectively communicate environmental impacts***
  - Consider the circumstances unique to the MSP area.
  - Provide robust environmental review documentation regardless of the environmental review the FAA deems appropriate for FAA's project including
    - how the level of environmental review was determined
    - document and present these findings for public access and transparency including an executive summary
  - Communicate potential changes in the noise environment around MSP



# Jan 31, 2024 NOC Recommendations to the FAA

- *FAA identify additional opportunities to for proposed procedures to replicate existing flight paths and reduce overflight concentration over neighborhoods*
  - Include more dispersion similar to how departures fly today with the goal of spreading out tracks and preventing concentration.
- *FAA identify additional opportunities to enhance use of existing noise abatement practices*
  - Increase the use of established noise abatement practices that have been developed to overfly areas with compatible land uses and reduce repetitive overflights over residential areas.

# Jan 31, 2024 Draft NOC Recommendations to the FAA – Revisions

- Proposed revisions:
  - Provide a public comment period of up to ~~60~~ **90** days related to FAA's proposed procedures and resultant environmental review to allow members of the public sufficient time to be informed and equipped to participate in the FAA's comment process.
  - The NOC appreciates the efforts by the FAA to use VI-CF legs to concentrate aircraft activity within the established ~~industrial areas~~ **boundary** of the Egan-Mendota Heights Corridor. The same departing aircraft overfly residential land uses **within the corridor and** as they exit the end of the corridor, where aircraft concentration would not be beneficial. Therefore, the NOC recommends the FAA evaluate VA-DF leg types for greater dispersion as an alternative to the proposed VI-CF for Runways 12L and 12R departures.
  - During South Flow operations, aircraft departing with a 120-degree heading from Runway 12L utilize the established noise abatement procedure, Crossing-in-the-Corridor. This benefits surrounding communities by directing aircraft over more compatible land in the center of the Egan-Mendota Heights Corridor. Since RNAV provides more precise and predictable routes and the FAA has stated that during South Flow operations Runway 12R is only used for departures when operationally necessary, the NOC recommends the FAA assign a 120-degree heading to additional Runway 12L RNAV departures to route aircraft over the center of the corridor **without increasing overflights over residential areas of Sunfish Lake**.
  - Aircraft departing over the Minnesota River reduces the instances of aircraft overflying residential areas. The NOC recognizes the FAA's high use of the existing Runway 17 turn point noise abatement procedure to keep westbound turns over the Minnesota River today. The NOC recommends the FAA take this opportunity to ~~design new RNAV procedures~~ to keep Runway 17 ~~westbound~~ departures **that are designed to fly** over the Minnesota River, **over the River** for as long as possible before flying over homes and other noise sensitive areas.

# Next Steps

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- 2024
  - Feb 1, 2024 – NOC recommendations due to FAA
  - FAA review of NOC Recommendations
  - FAA initiate environmental review
  - Summer 2024 – FAA public workshops and public comment period
- 2025
  - February 2025 – FAA deadline to finalize procedures
  - August 2025 – FAA procedures are implemented at MSP

[www.faa.gov/air\\_traffic/community\\_engagement/msp](https://www.faa.gov/air_traffic/community_engagement/msp)

# Action Requested

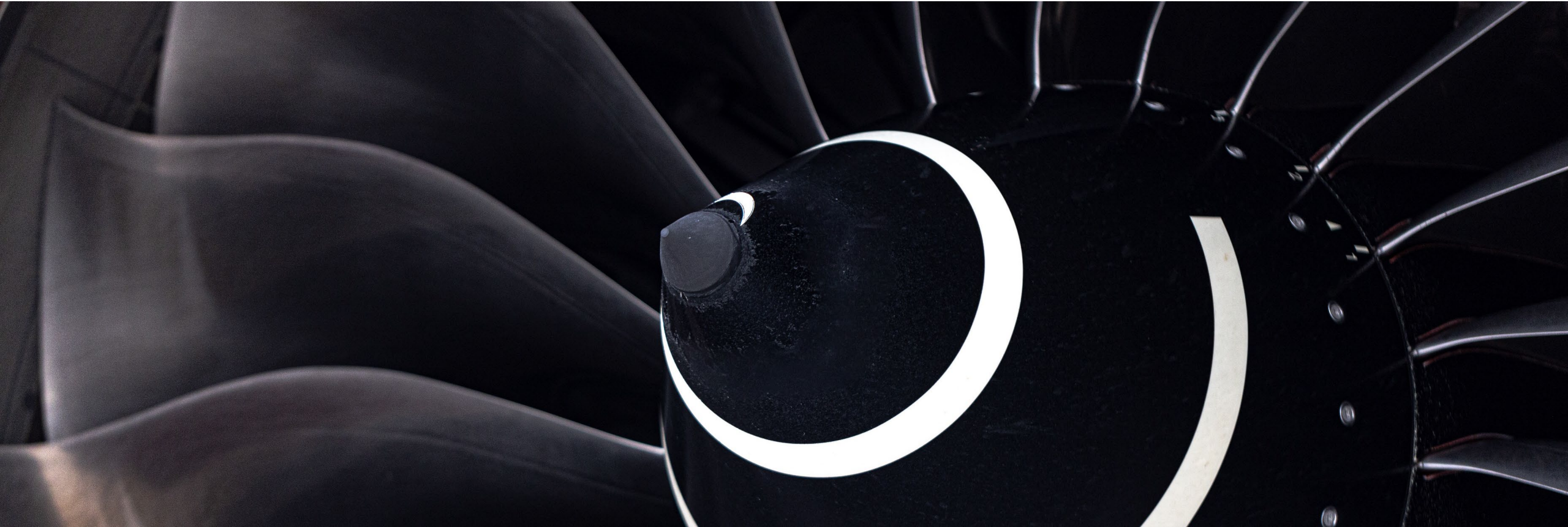
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APPROVE THE RNAV PROCEDURE REVIEW SUB-COMMITTEE RECOMMENDATIONS AS AMENDED AND FORWARD TO THE FAA.



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

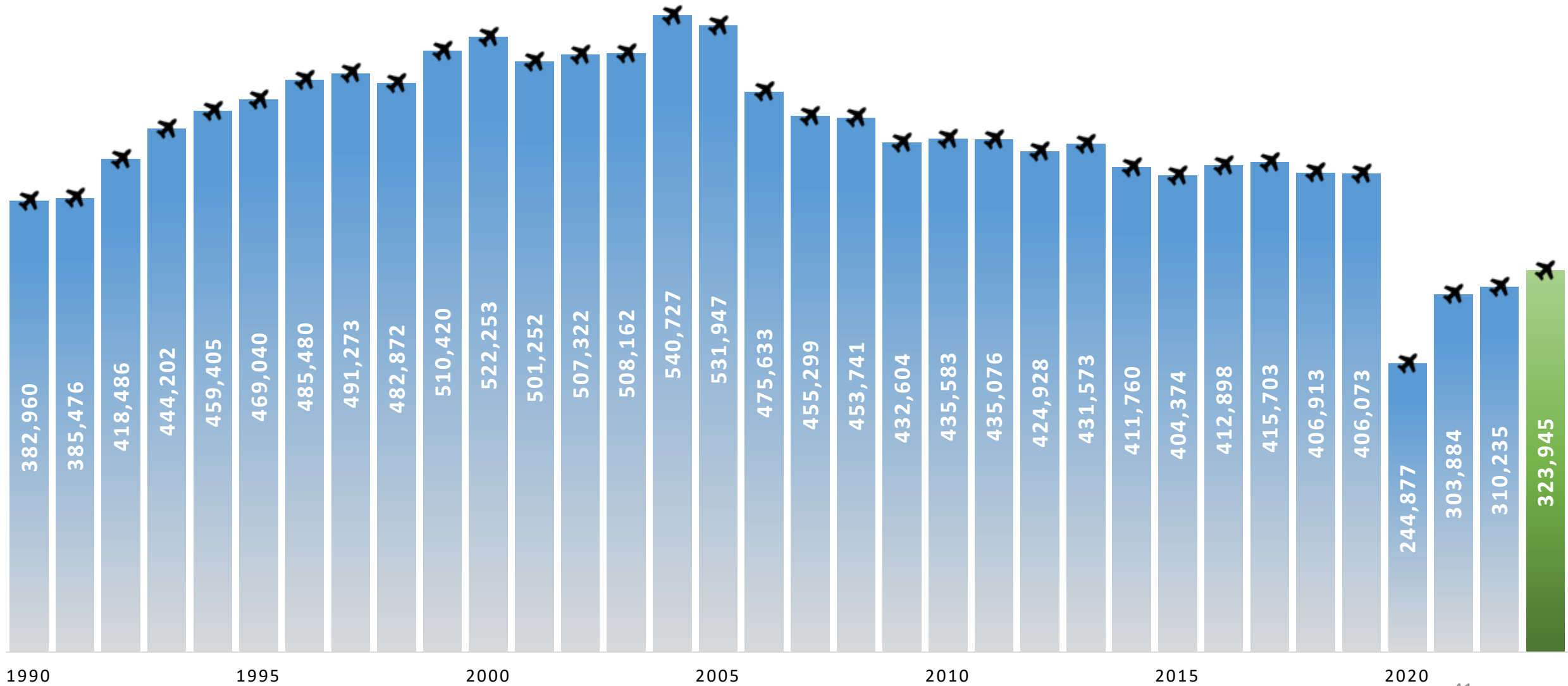
# 4.1 – 2023 FLEET MIX AND NIGHTTIME OPERATIONS ASSESSMENT



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

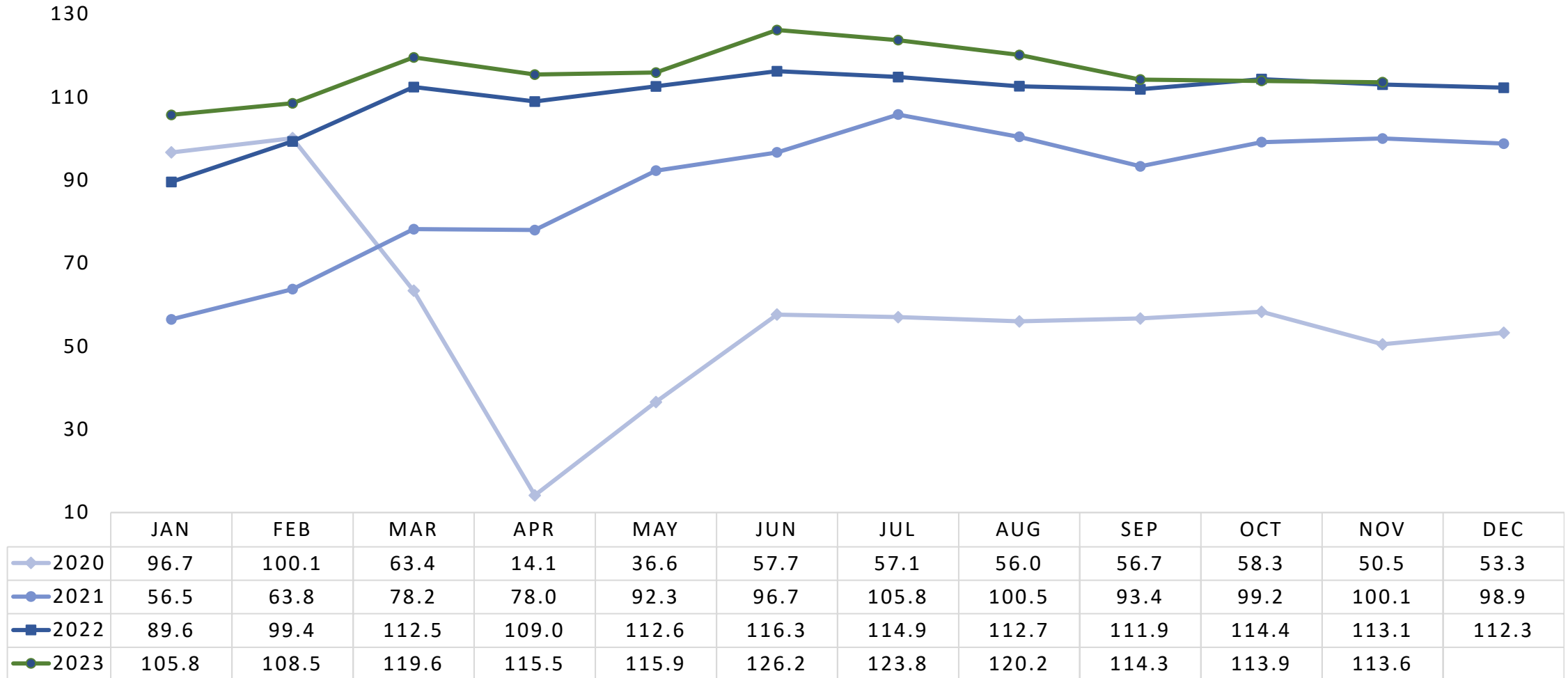


# MSP Operations *(FAA Opsnet)*



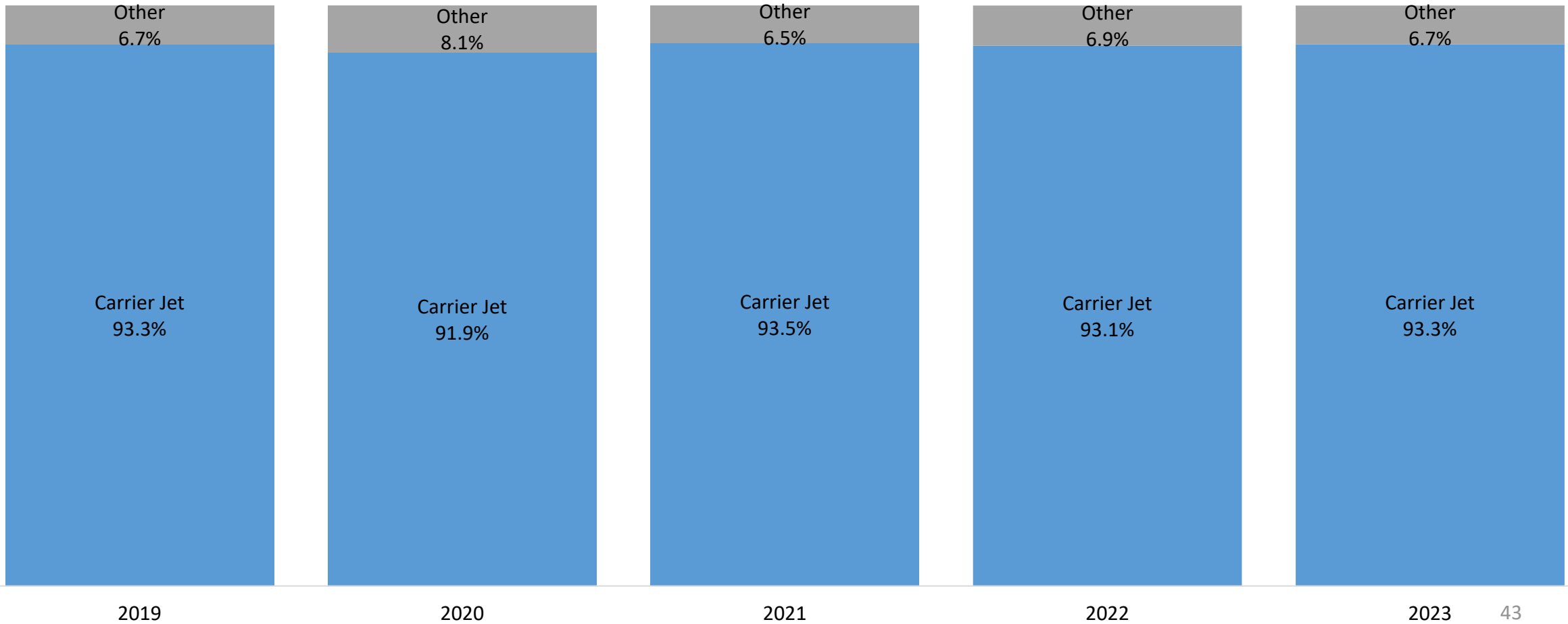
Source: FAA Opsnet data.

# MSP Passengers Per Flight



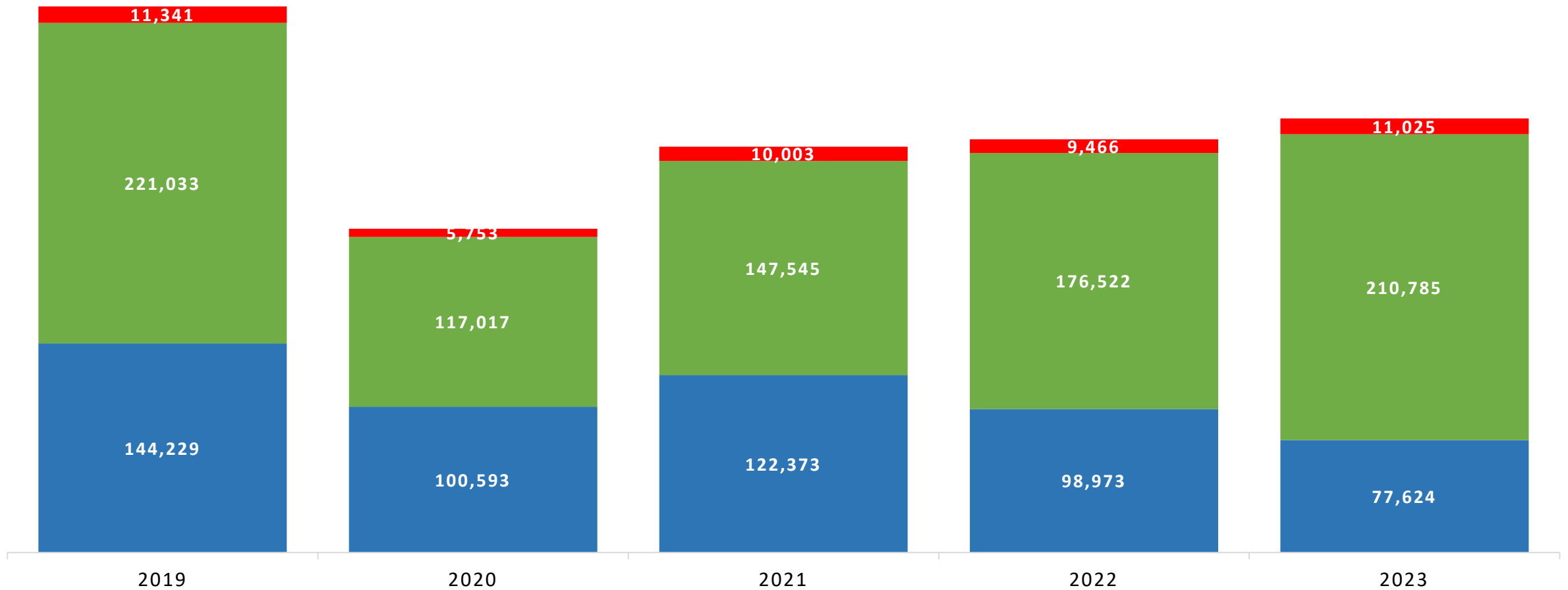
SOURCE: MSP MONTHLY OPERATIONS REPORTS

# MSP Operational Fleet Mix



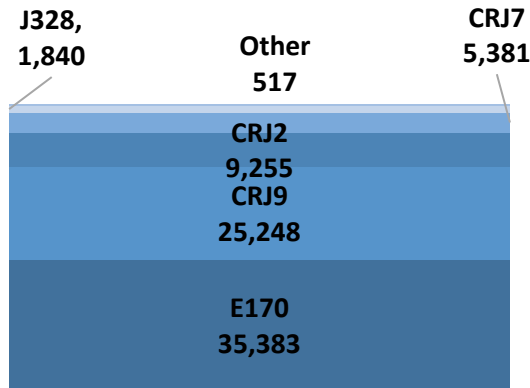
# MSP Operations Fleet Mix

■ RJ ■ NARROWBODY ■ WIDEBODY

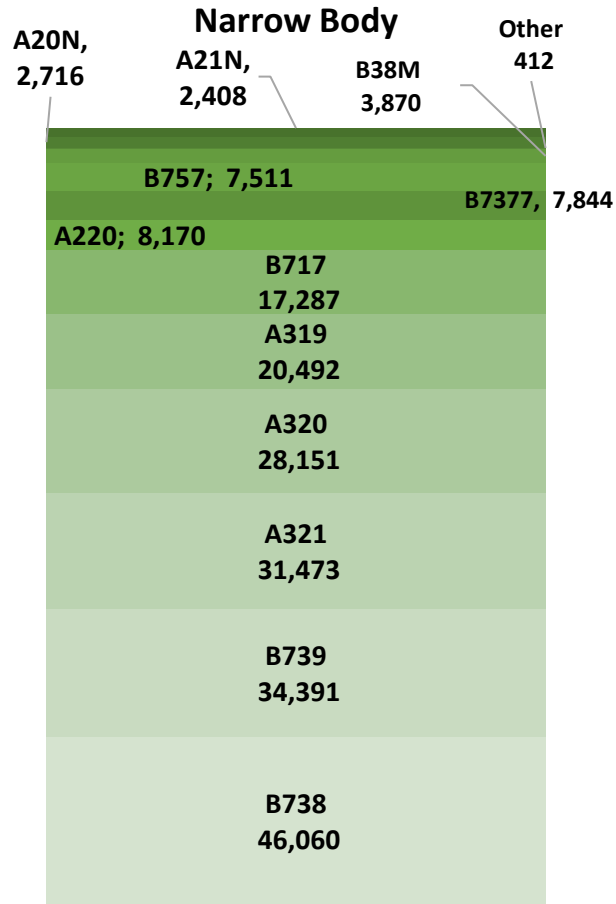


# MSP Operations Fleet Mix

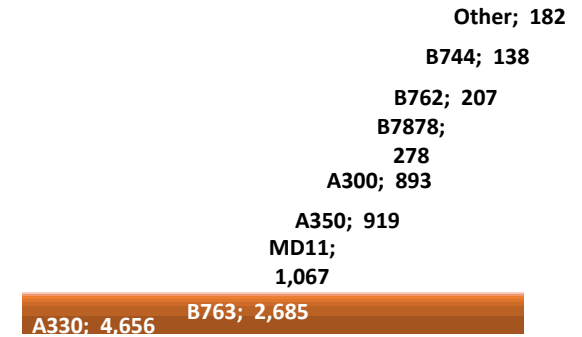
## Regional Jet



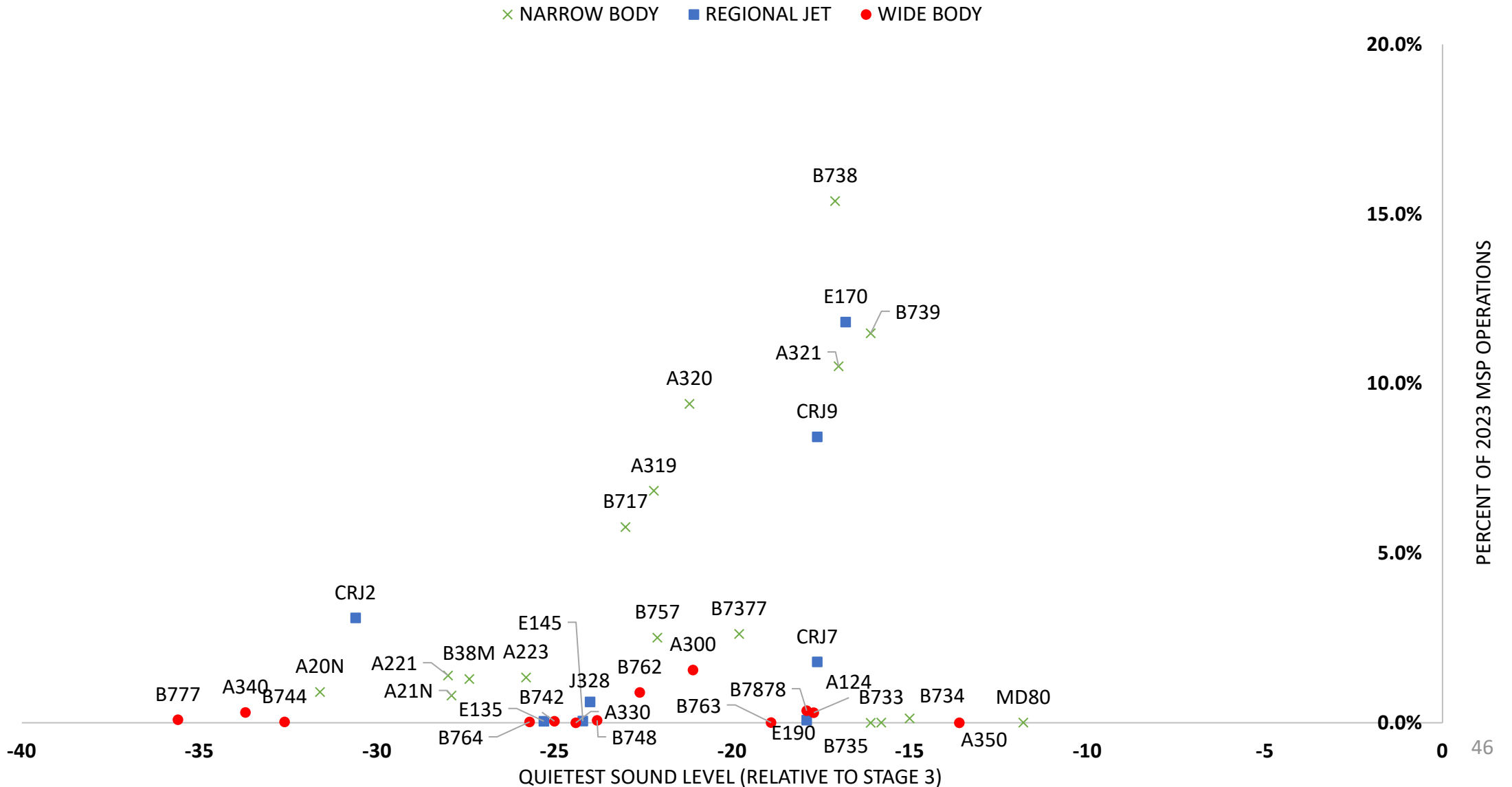
## Narrow Body



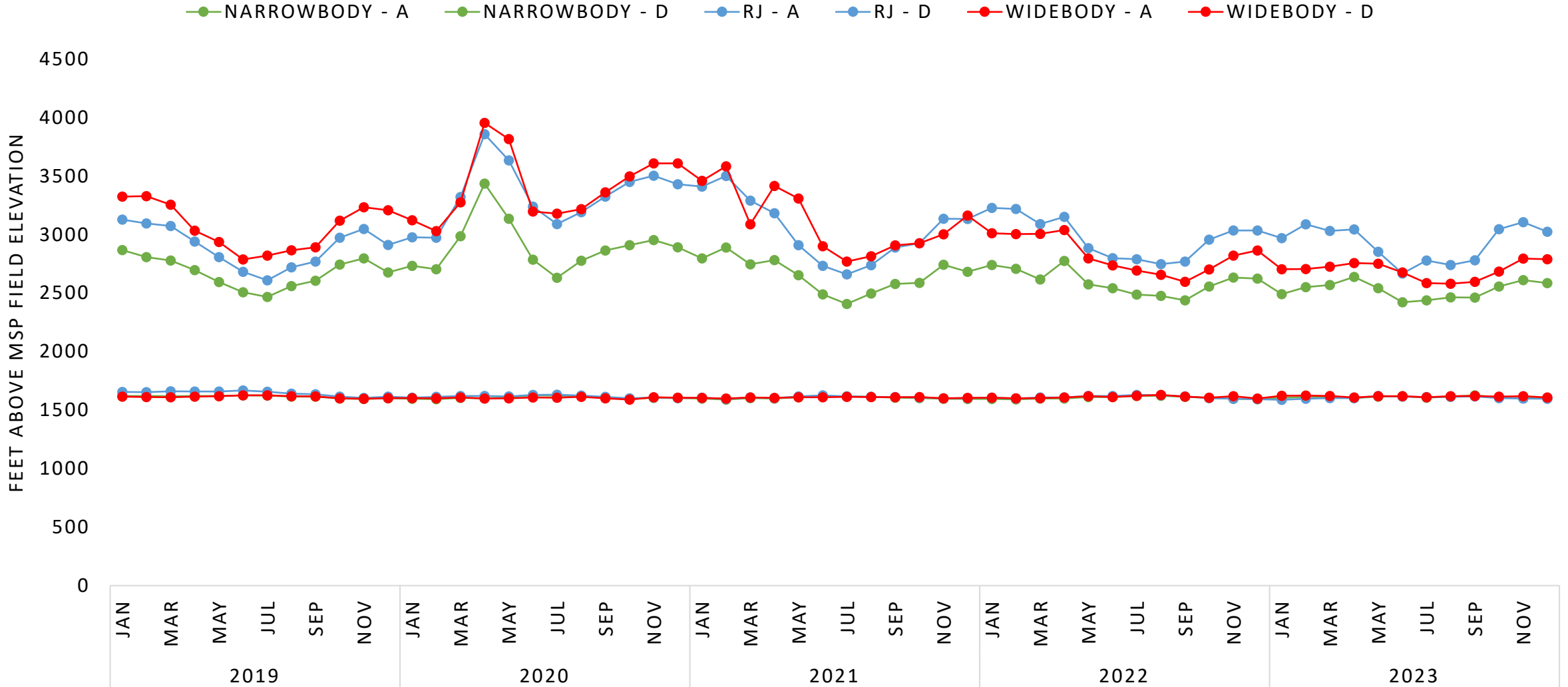
## Wide Body



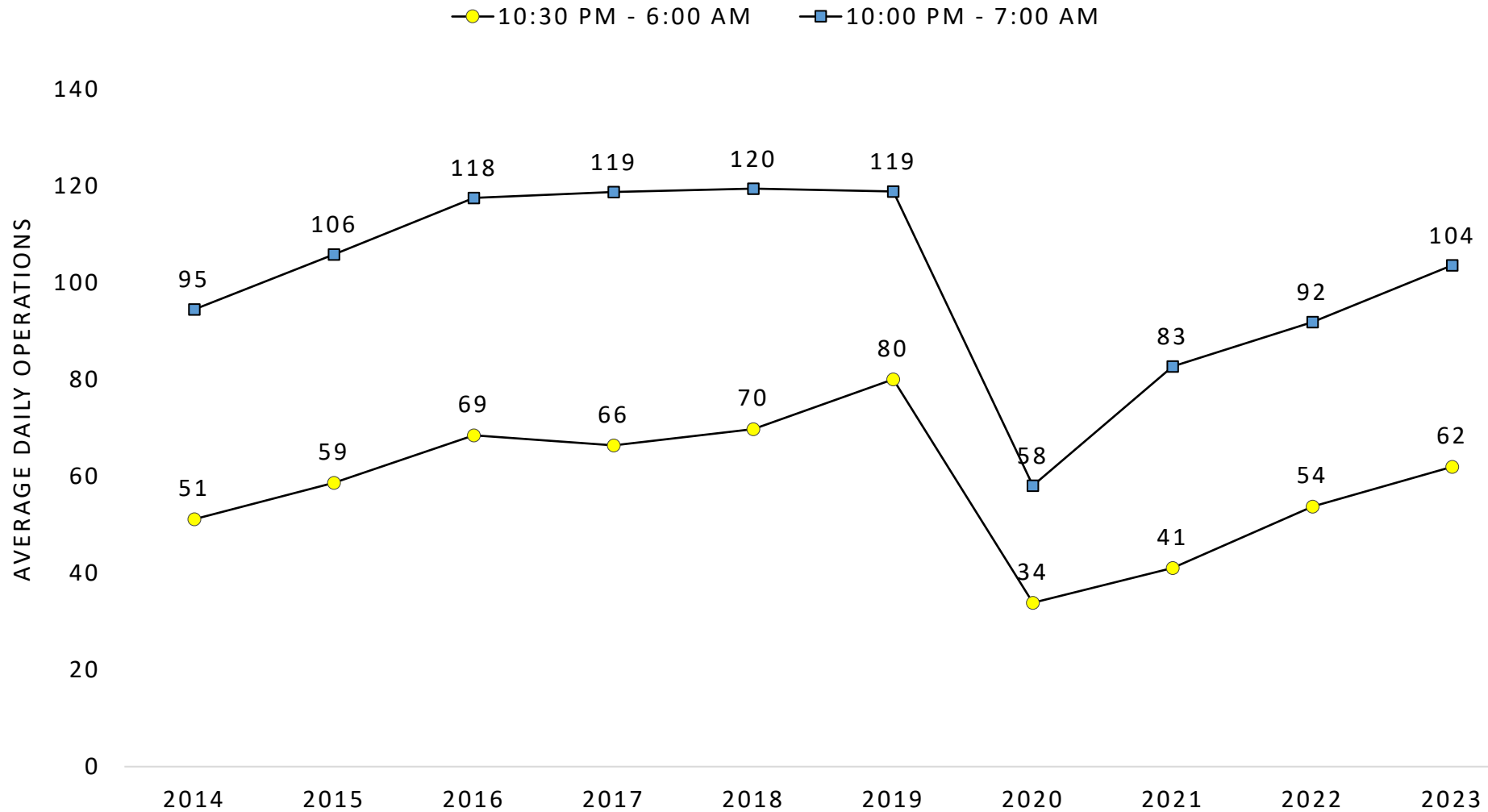
# 2023 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS



# Average Altitude

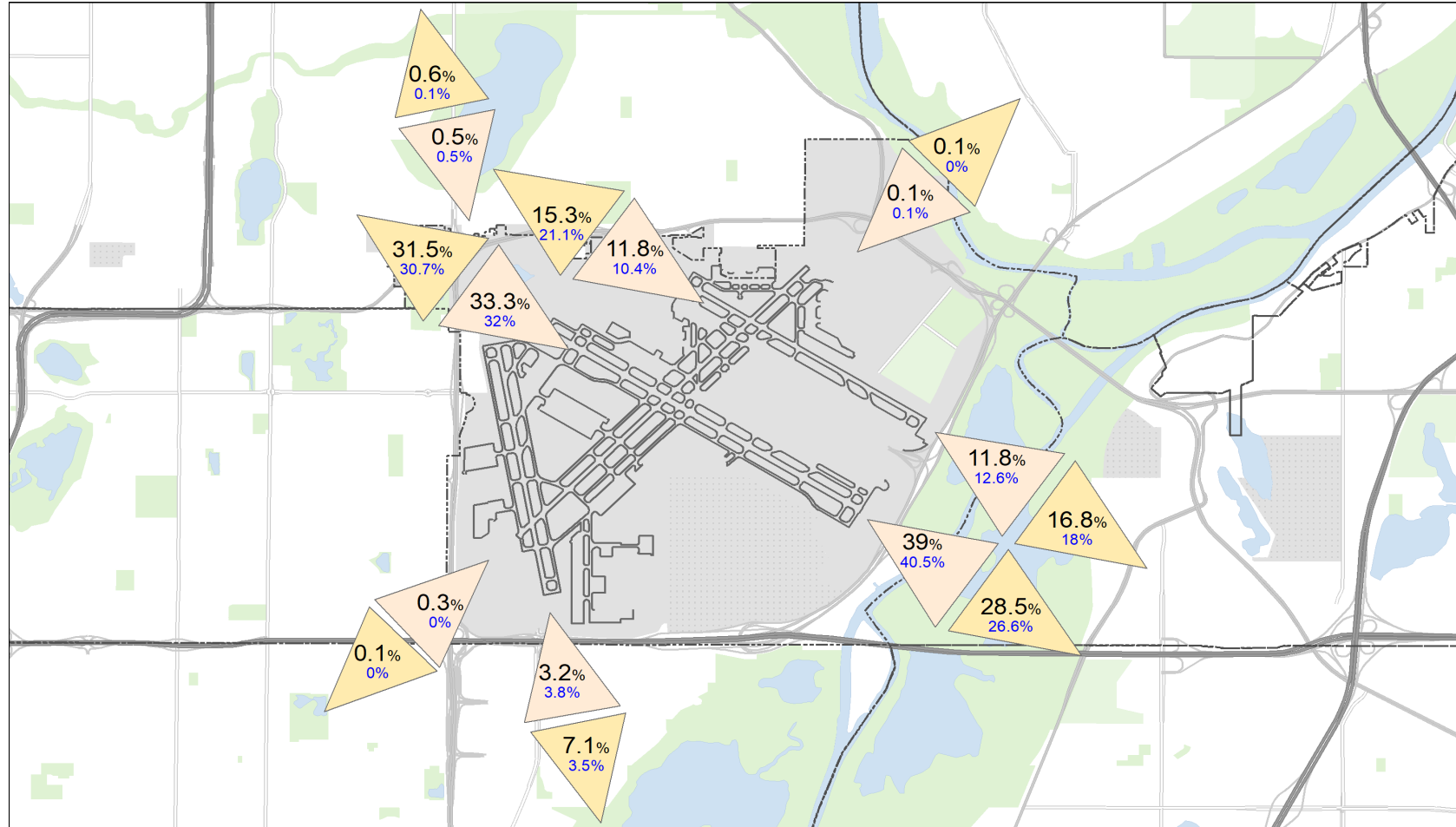


# Average Daily Nighttime Operations





# Nighttime Runway Use



# Nighttime Operations by Airline and Aircraft

AIRLINE	ID	COUNT	PERCENT OF AIRLINE OPERATIONS' OCCURRING AT NIGHT	PERCENT OF CONTRIBUTION TO NIGHTTIME TOTAL
DELTA	DAL	8,263	5.7%	38.1%
SUN COUNTRY	SCX	4,147	15.0%	19.1%
SOUTHWEST	SWA	2,345	16.0%	10.8%
UNITED	UAL	1,430	14.3%	6.6%
AMERICAN	AAL	1,398	17.3%	6.4%
SKYWEST AIRLINES	SKW	1,113	2.3%	5.1%
UPS	UPS	877	33.4%	4.0%
FEDEX	FDX	588	24.7%	2.7%
FRONTIER AIRLINES	FFT	402	24.5%	1.9%
GULF & CARIBBEAN CARGO	TSU	368	95.6%	1.7%
ALASKA	ASA	266	19.0%	1.2%
SPIRIT	NKS	213	6.8%	1.0%
ENDEAVOR AIR	EDV	155	0.9%	0.7%
REPUBLIC AIRLINES	RPA	64	2.5%	0.3%
AIR CANADA JAZZ	JZA	59	2.6%	0.3%

AIRCRAFT CODE	DESCRIPTION	COUNT	NOISE LEVEL CERTIFICATION (EPNdB BELOW STAGE 3)
B738	BOEING 737-800	6,900	11.3 - 17.1
B739	BOEING 737-900	2,542	10.9 - 16.1
A321	AIRBUS INDUSTRIES A321	2,473	6.4 - 17
A320	AIRBUS INDUSTRIES A320	1,900	12.1 - 21.2
B757	BOEING 757-200	1,224	11.1 - 22.1
E170	EMBRAER 170	1,010	9.2 - 16.8
A319	AIRBUS INDUSTRIES A319	940	12.9 - 22.2
B38M	BOEING 737-8 MAX	845	24.3 - 27.4
B7377	BOEING 737-700	834	11.6 - 19.8
B717	BOEING 717	728	19.2 - 23
B763	BOEING 767-300	622	4.4 - 22.6
CRJ2	CANADAIR REGIONAL JET CRJ-200	455	26.5 - 30.6
A300	AIRBUS INDUSTRIES A300	308	4.3 - 17.7
MD11	MCDONNELL DOUGLAS MD11	270	12.8 - 17.9
A330	AIRBUS INDUSTRIES A330	164	11.7 - 21.1

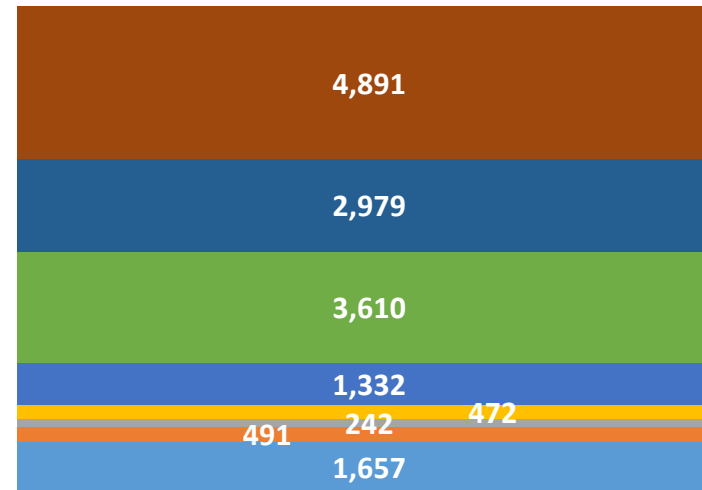
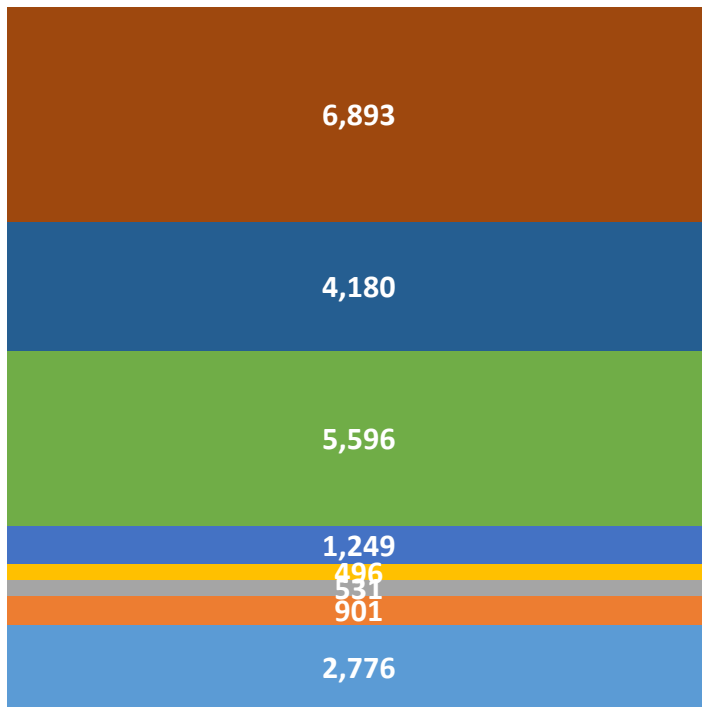
# Nighttime Operations by Hour

2023

3-YEAR HISTORICAL AVERAGE

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

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

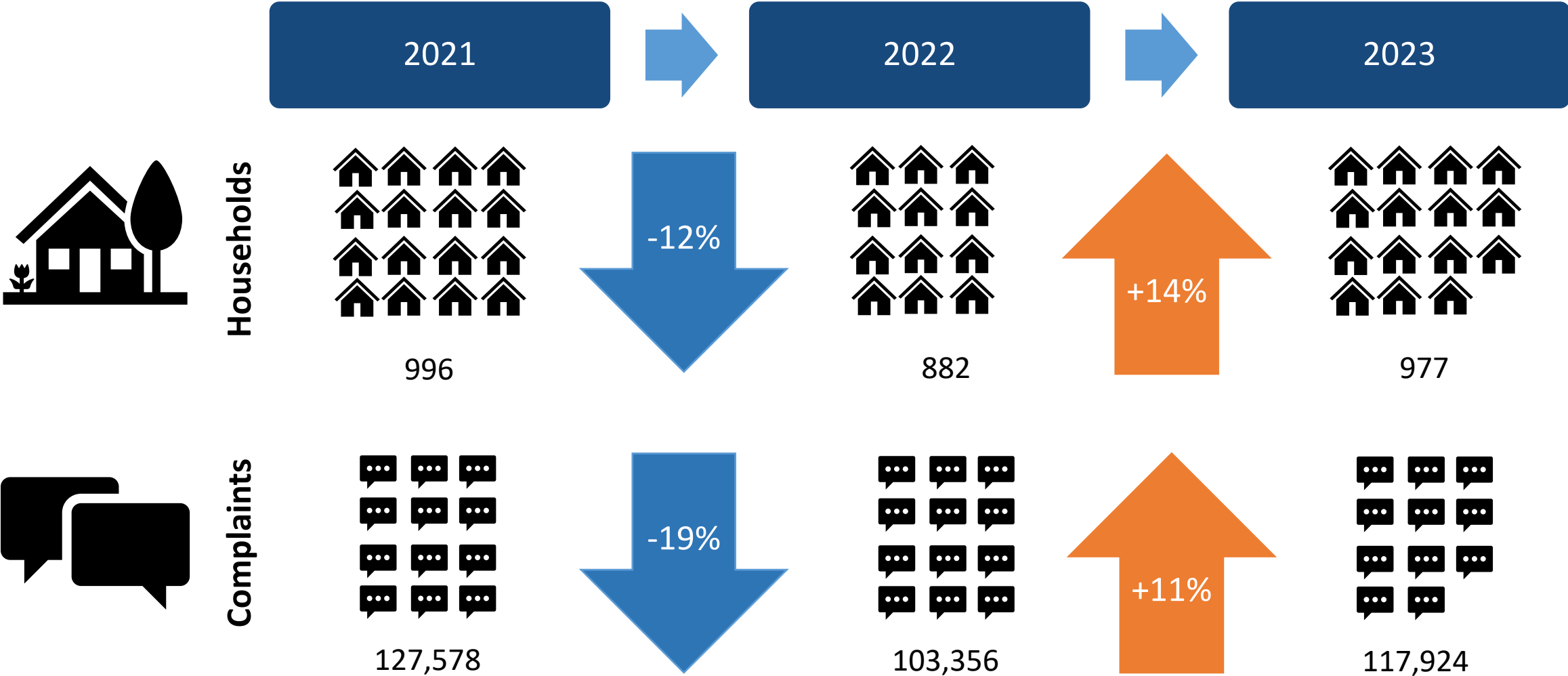


# 4.2 – 2023 COMPLAINT DATA ASSESSMENT



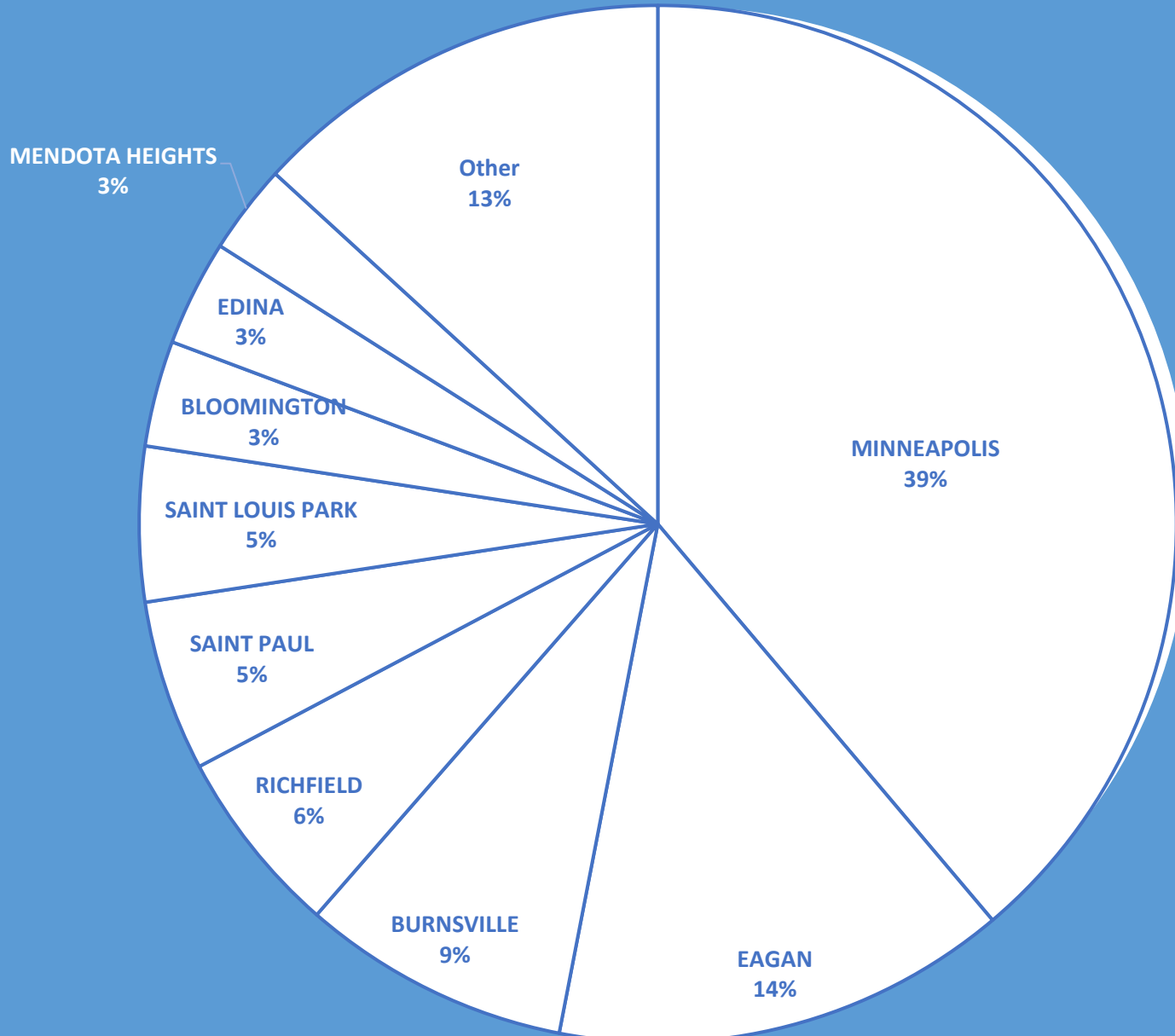
**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

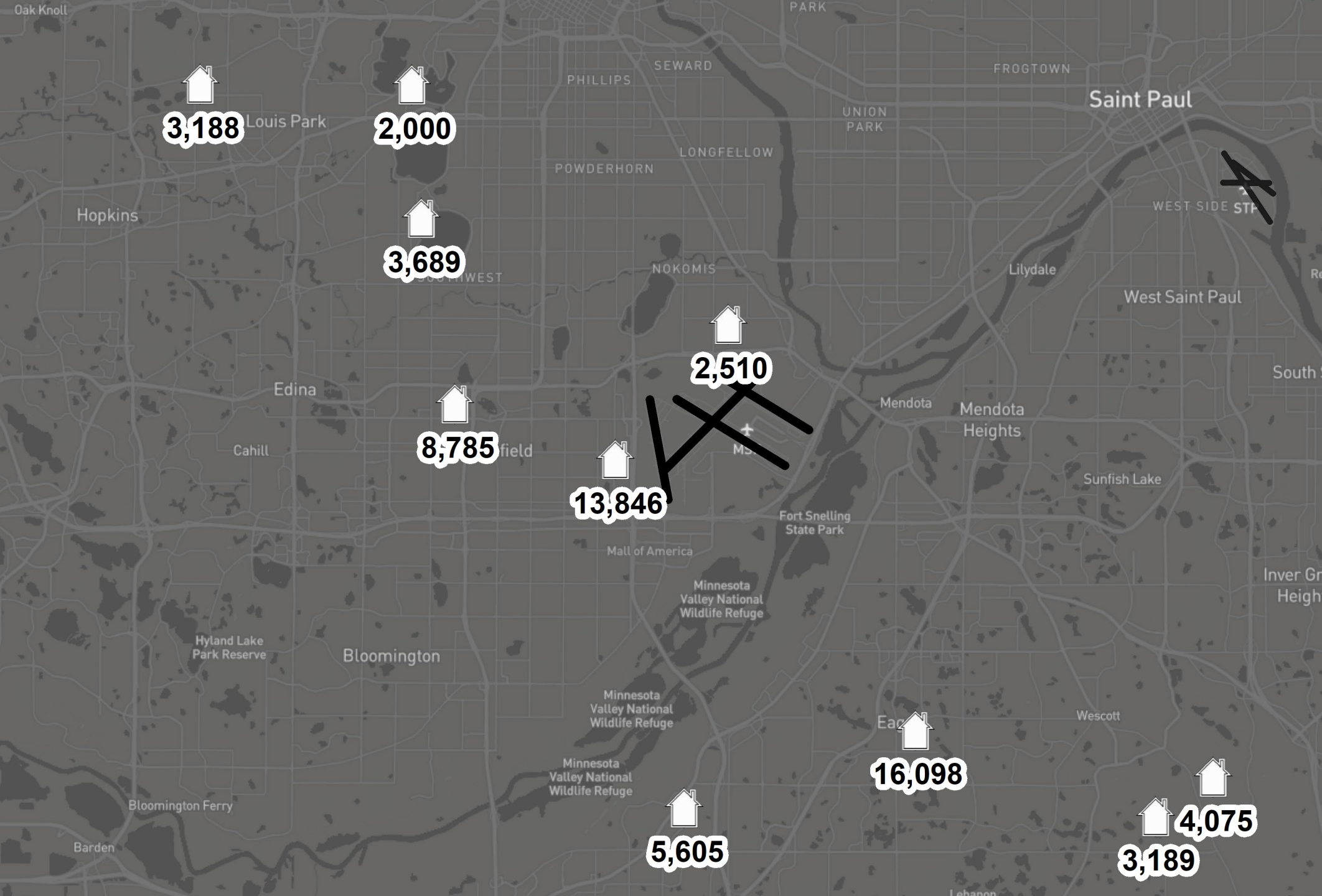
# Total Households and Total Complaints 2021-2023



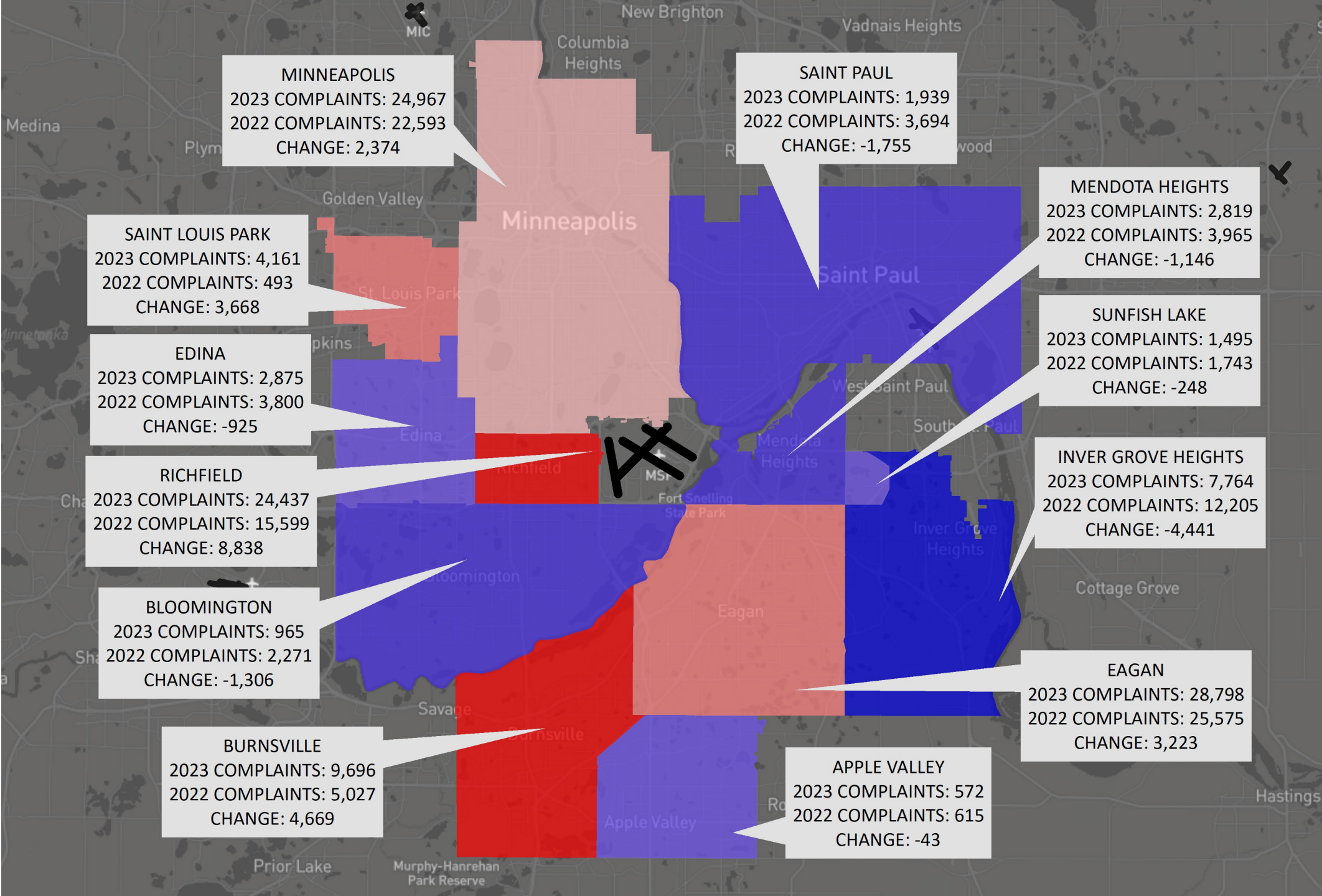


# New Households Filing Complaints 2023 By City



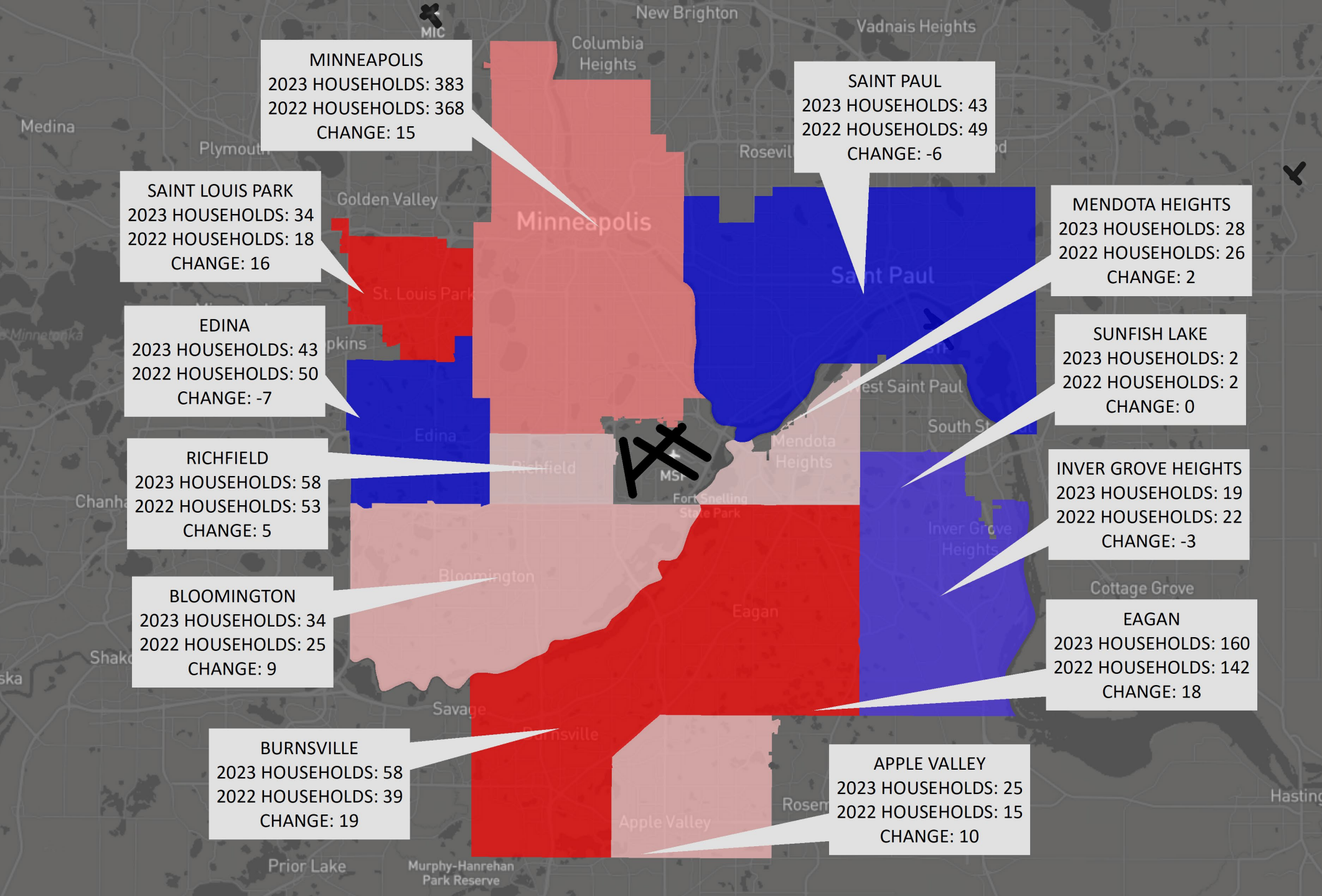


**Top 10  
Households  
Filing Complaints**

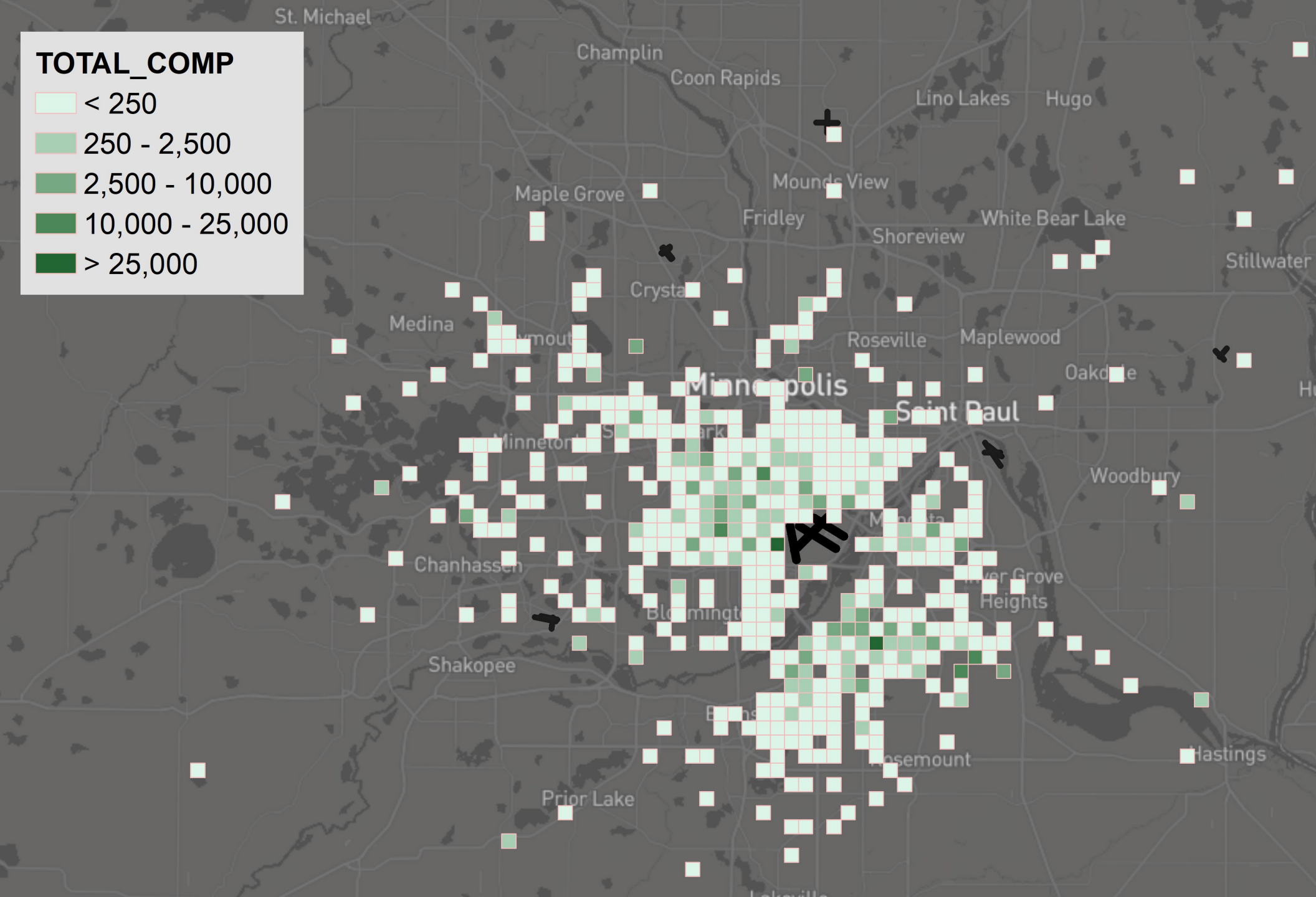
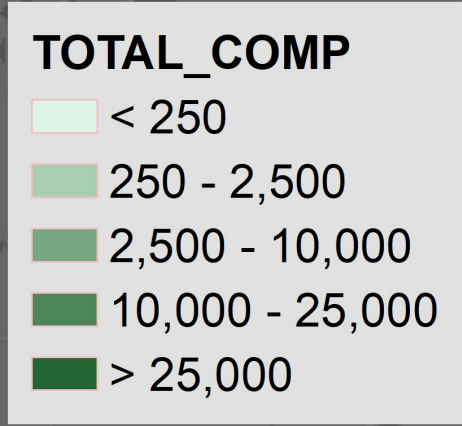


## Change in Complaints By City





## Change in Households By City

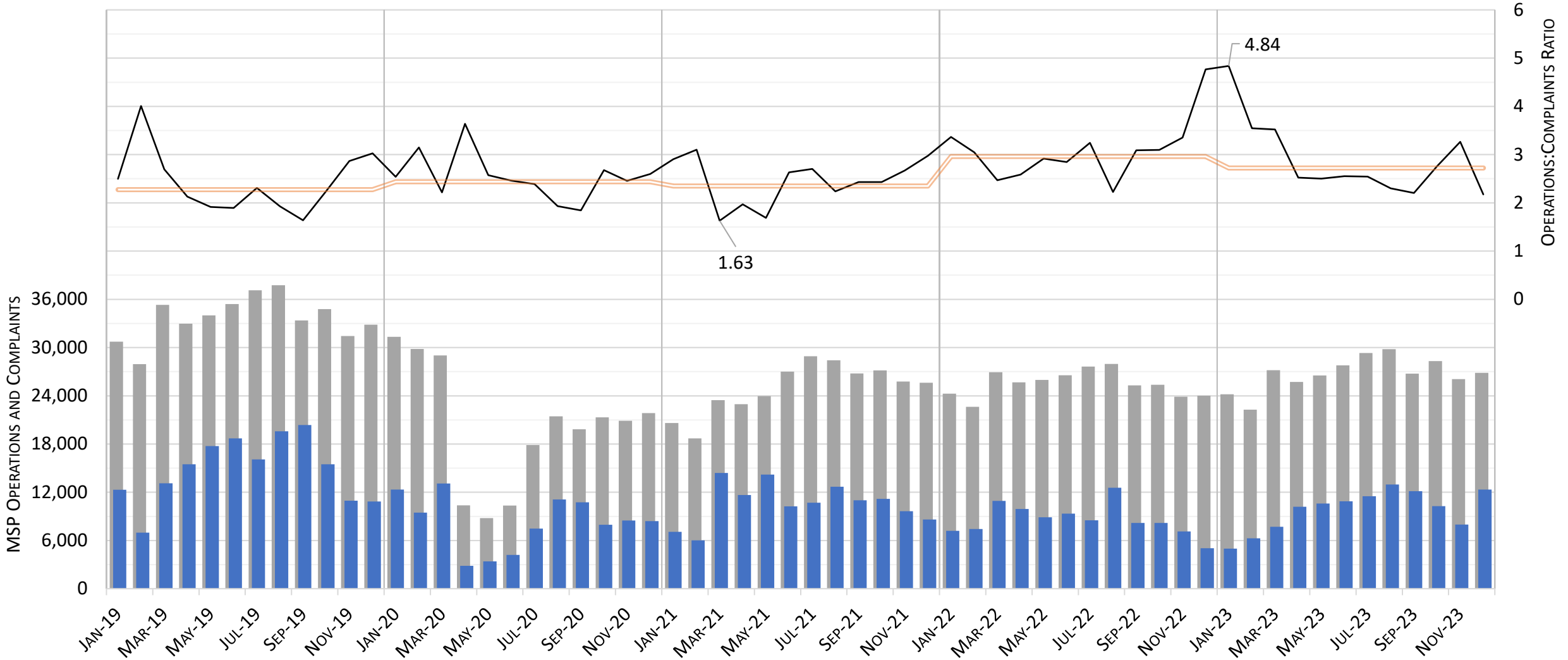


**Total Complaints**  
**2021-2023**



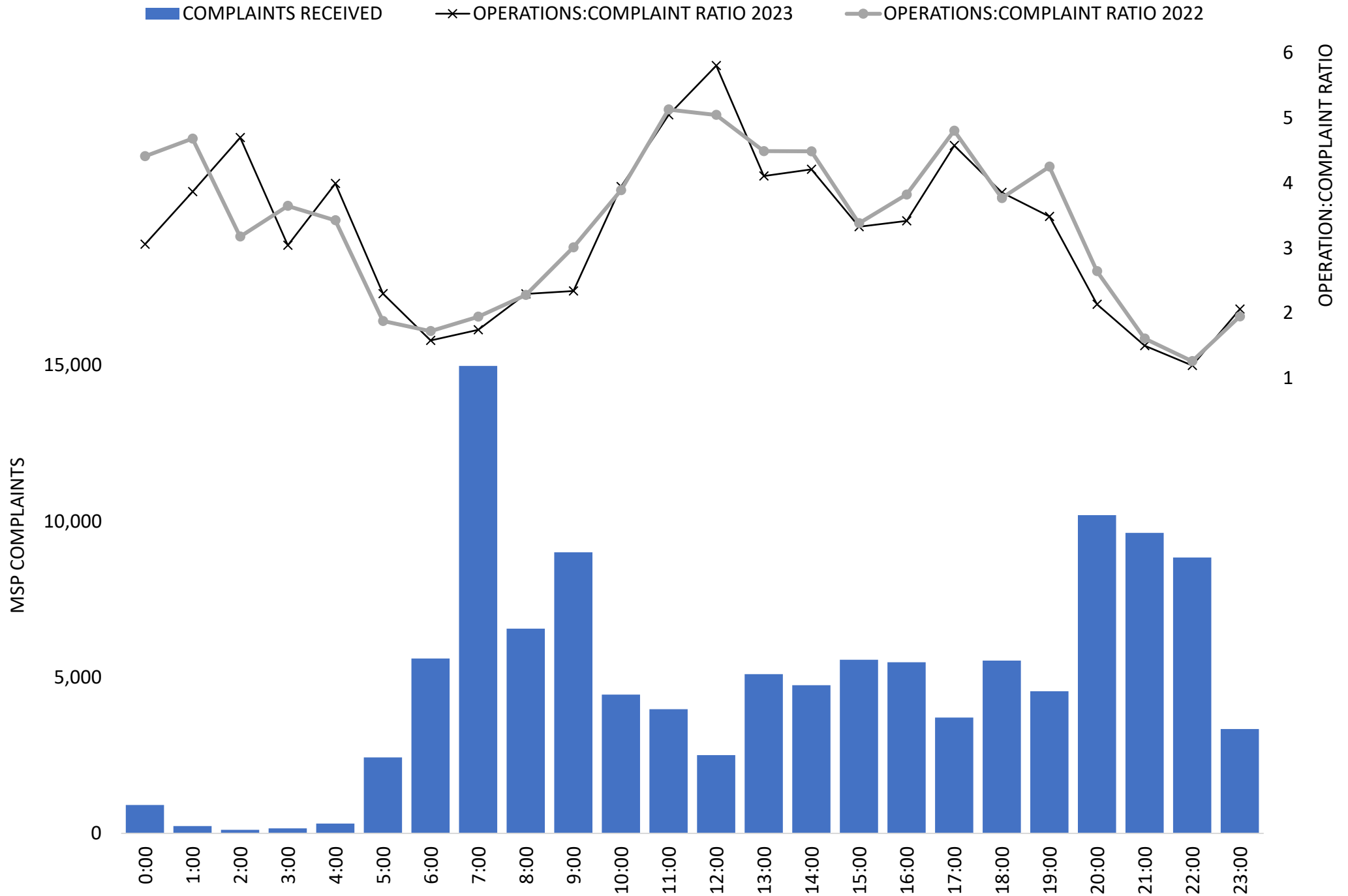
# 2019-2023 Operations to Complaints Ratio

OPERATIONS COMPLAINTS OPS:COMPLAINTS MONTHLY RATIO OPS:COMPLAINTS ANNUAL RATIO



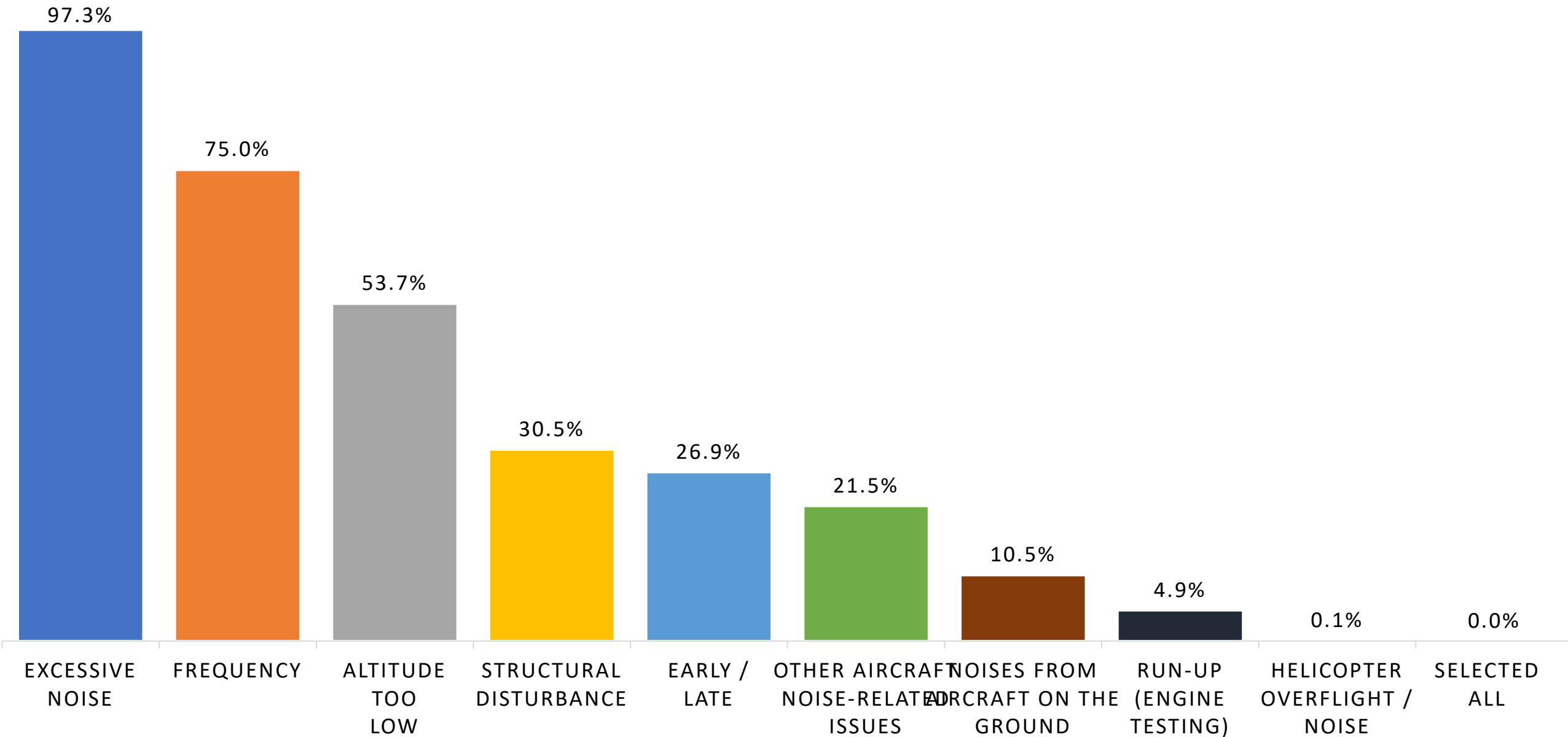


# 2022 & 2023 Complaints to Operations Ratio by Hour





# 2023 Complaints Filed By Complaint Reason





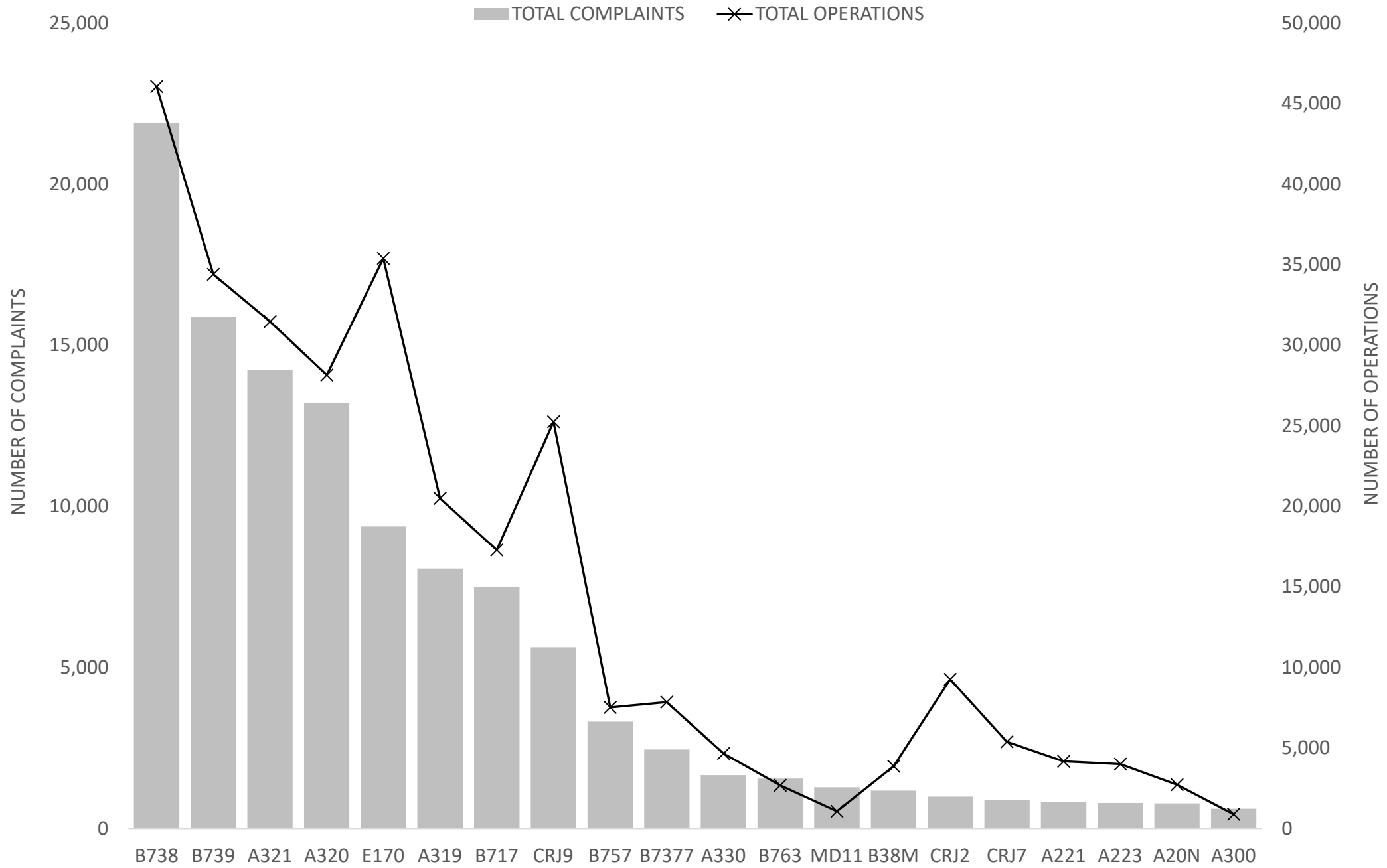
<b>Operation Type</b>	<b>Total Operations</b>	<b>Total Complaints</b>	<b>Ratio</b>
<b>Commercial Jet</b>	<b>299,434</b>	<b>114,183</b>	<b>2.6</b>
<b>Jet</b>	<b>11,873</b>	<b>1,384</b>	<b>8.6</b>
<b>Turboprop</b>	<b>5,572</b>	<b>744</b>	<b>7.5</b>
<b>Propeller</b>	<b>2,032</b>	<b>457</b>	<b>4.4</b>
<b>Unknown</b>	<b>1,630</b>	<b>93</b>	<b>17.5</b>
<b>Military</b>	<b>224</b>	<b>60</b>	<b>3.7</b>
<b>Helicopter</b>	<b>30</b>	<b>10</b>	<b>3.0</b>



**2023**  
**Complaints By**  
**Aircraft Category**



# 2023 Complaints By Aircraft Type





**2023**  
**Top 10 Flights**  
**That Generated**  
**Complaints**

Date and Time	Aircraft Type	Flight ID	Operation Type	Number of Complaints	Number of Households
10/26/2023 22:11	A321	DAL1441	Departure	12	7
9/10/2023 21:24	B738	SCX109	Departure	11	7
9/25/2023 22:02	A320	DAL2137	Departure	9	7
7/29/2023 7:07	B738	AAL894	Departure	9	6
8/14/2023 21:51	MD11	UPS559	Departure	8	8
6/30/2023 7:28	B763	FDX420	Departure	8	7
9/28/2023 21:42	MD11	UPS559	Departure	8	7
8/21/2023 20:38	B739	DAL2635	Departure	8	7
8/14/2023 22:12	B734	ASH185	Departure	8	7
8/27/2023 7:26	B738	DAL1402	Departure	8	7

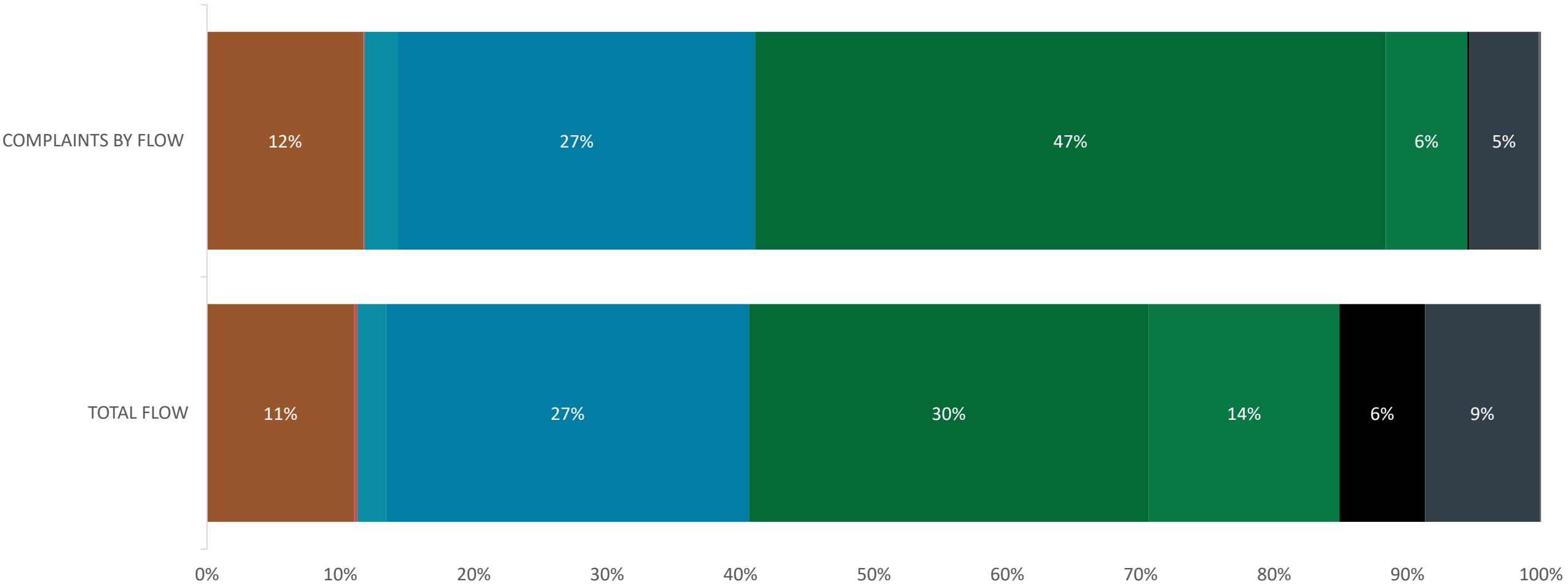






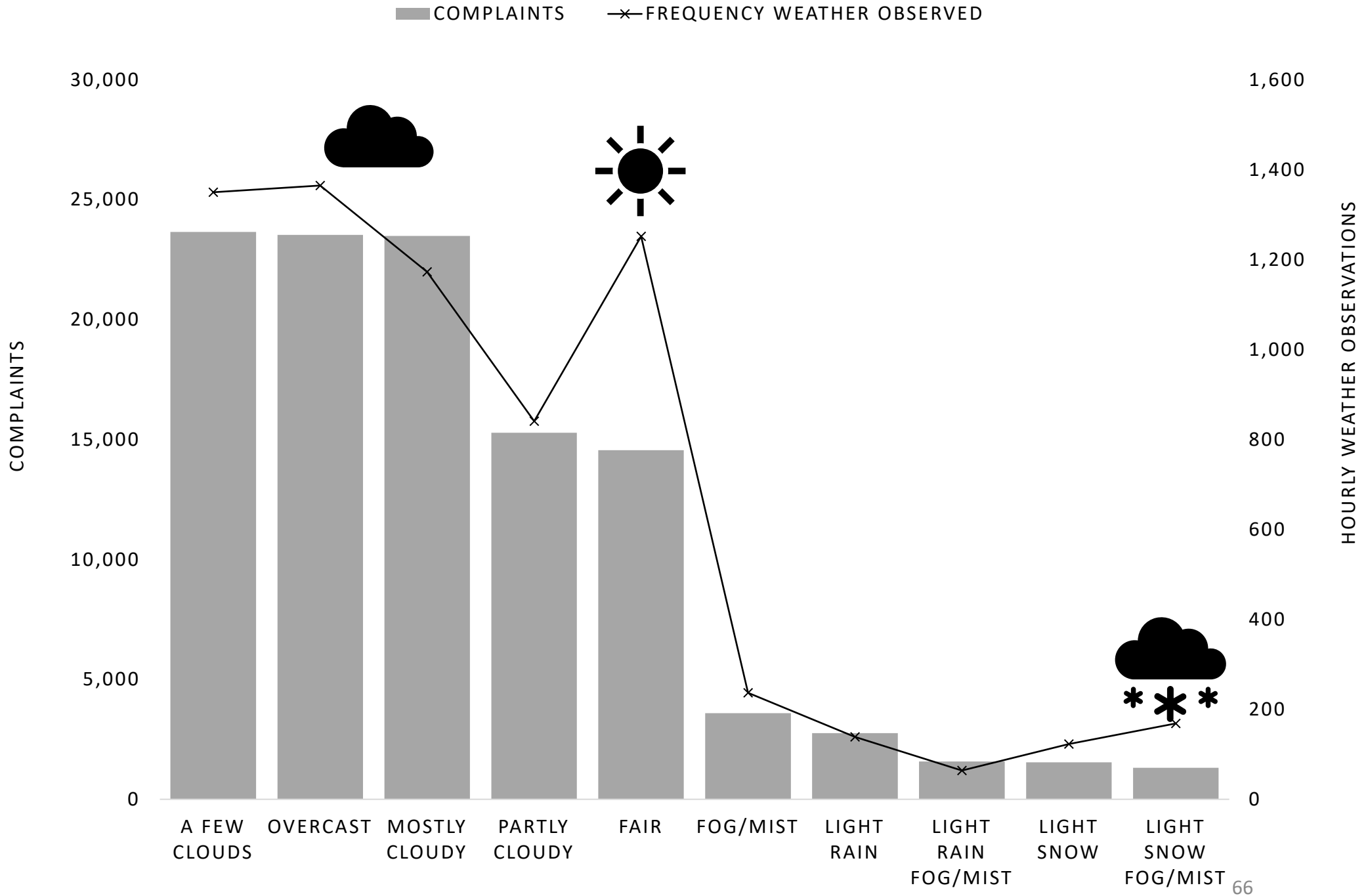
# 2023 Complaints By Flow

MIXED A MIXED B NORTH STRAIGHT NORTH SOUTH STRAIGHT SOUTH OPPOSITE UNLABELED UNUSUAL





# 2023 Complaints By Weather



## 4.3 – MEET THE FLEET



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**

# Meet the Fleet

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Goodyear Blimp



# MEET *the* FLEET

## Goodyear Blimp



# MEET *the* FLEET

Goodyear Blimp



# 5 – ANNOUNCEMENTS



**NOISE OVERSIGHT COMMITTEE  
JANUARY 31, 2024**

# ITEM 5

## ANNOUNCEMENTS

### March NOC Meeting

Wed, March 20, 2024 @ 1:30 PM

Location: MAC General Office Building

### NOC Spring Listening Session

Wed, April 24, 2024 @ 6 PM

Location: TBD



**NOISE OVERSIGHT COMMITTEE**  
**JANUARY 31, 2024**