



**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Audio recordings are made of this meeting**





**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Item 1: Review and Approval of May 17, 2017 Meeting Minutes**





## NOISE OVERSIGHT COMMITTEE JULY 19, 2017

*“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.”*

## Item 2: Nomination and Election of NOC Co-Chairs

The powers and duties of the Co-Chairs are :

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



### COMMITTEE ACTION REQUESTED

CONDUCT USER AND COMMUNITY CO-CHAIR NOMINATIONS AND ELECTIONS TO ESTABLISH THE RESPECTIVE CO-CHAIRS TO SERVE FOR TWO YEARS ENDING JUNE 2019.





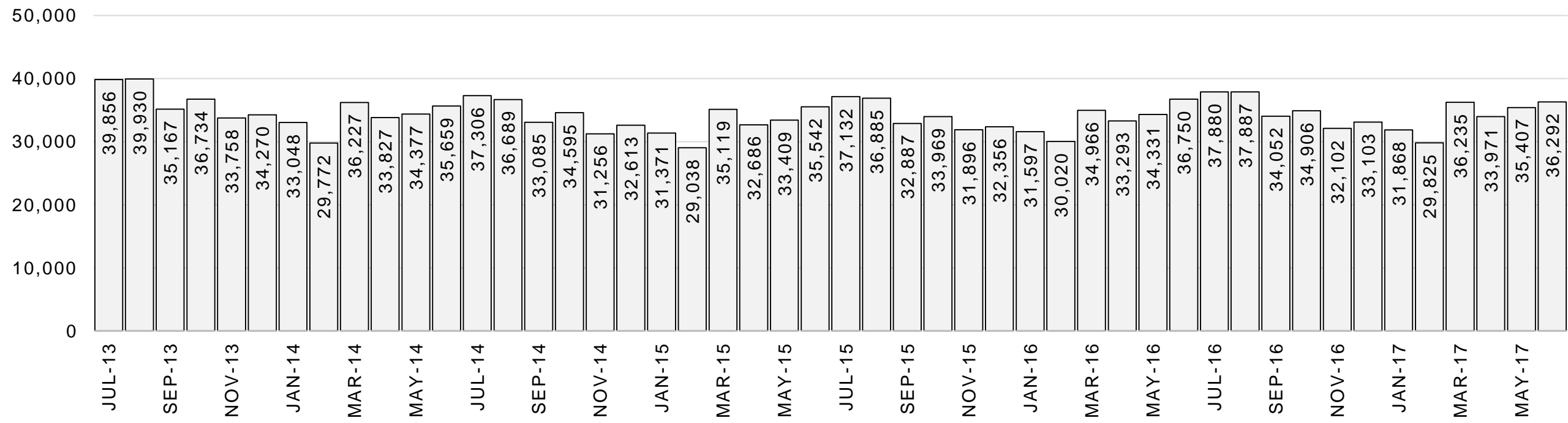
**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Item 3: Review of Monthly Operations Reports: May  
and June 2017**



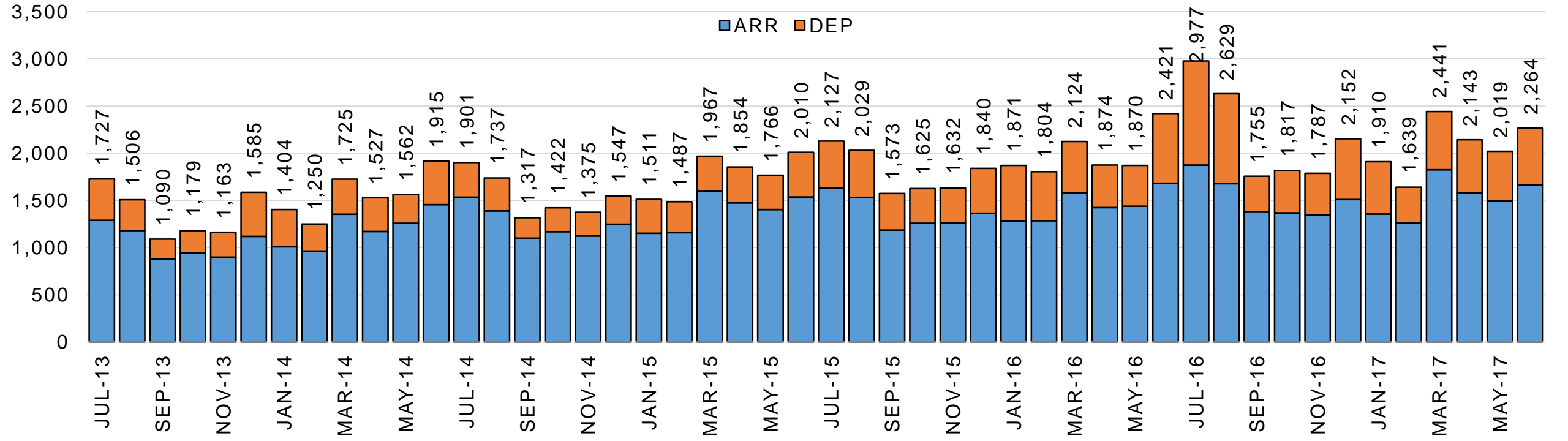
# MSP OPERATIONS

MAY 2017		JUNE 2017	
<b>35,407</b> Operations	<b>2,019</b> Nighttime Operations (10:30 PM – 6:00 AM)	<b>36,292</b> Operations	<b>2,264</b> Nighttime Operations (10:30 PM – 6:00 AM)



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



# RUNWAY USE

MAY 2017

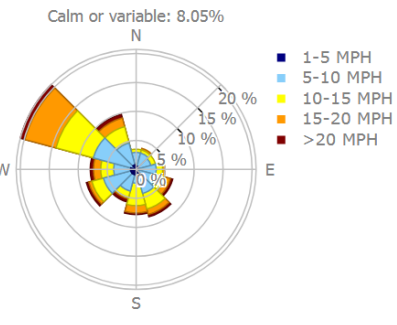
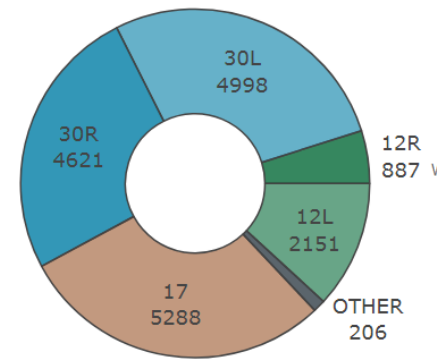
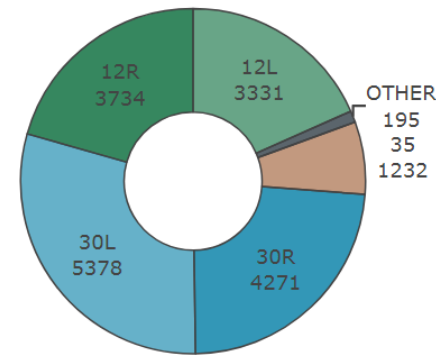
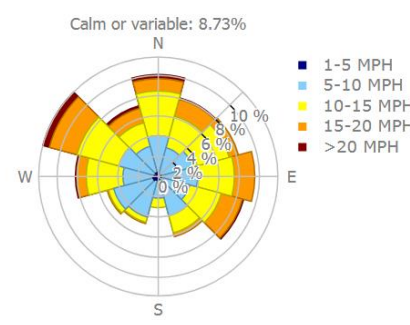
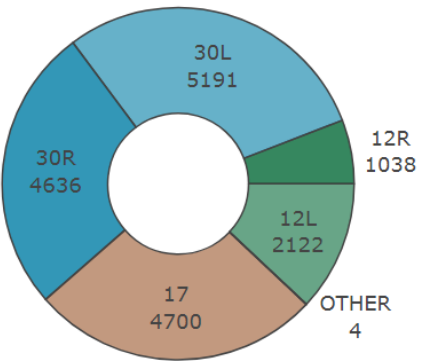
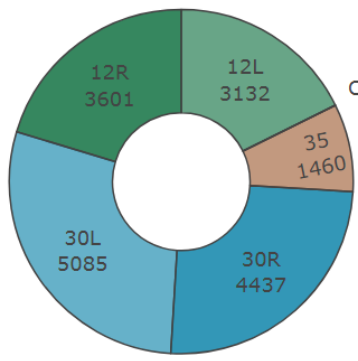
JUNE 2017

Arrivals

Departures

Arrivals

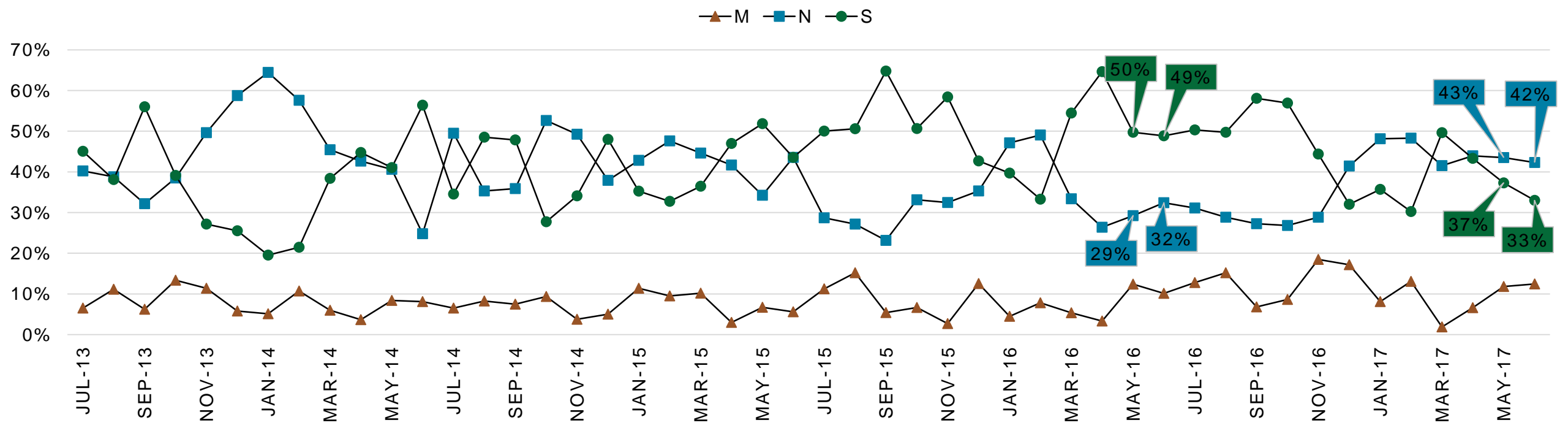
Departures



NORTH FLOW		SOUTH FLOW		MIXED FLOW	
43%		37%		12%	

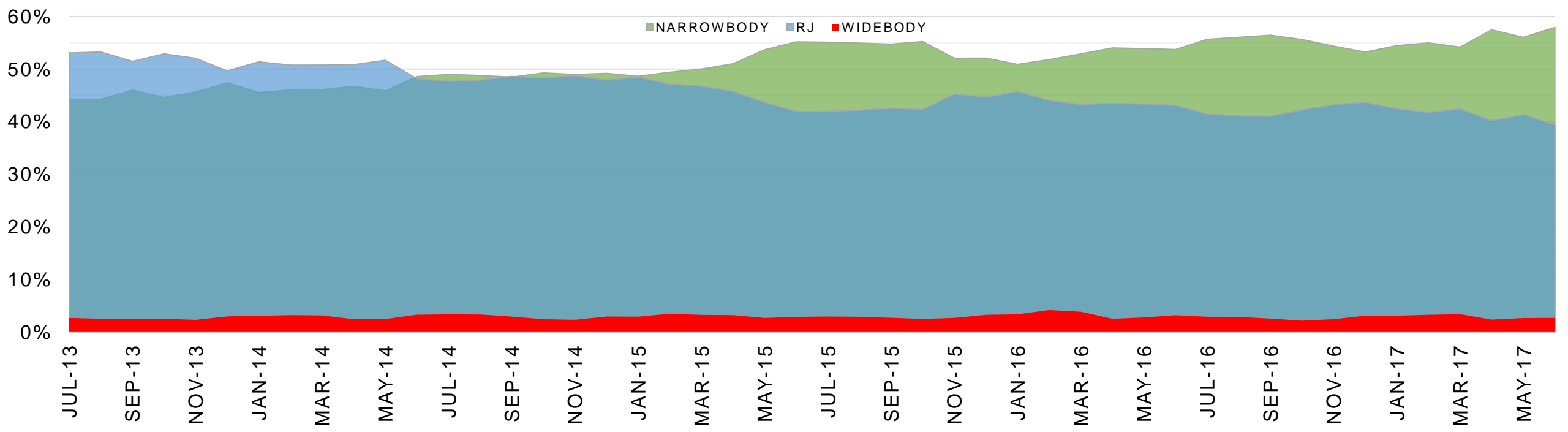
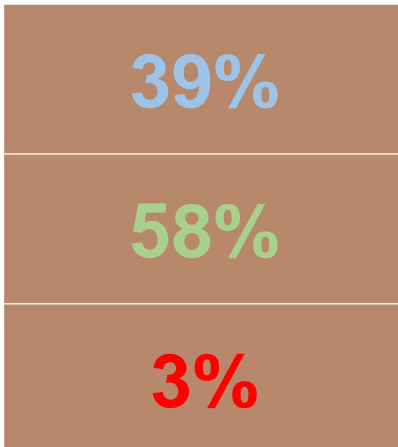
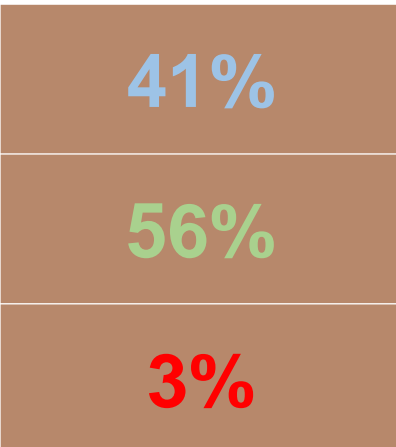
NORTH FLOW		SOUTH FLOW		MIXED FLOW	
42%		33%		12%	





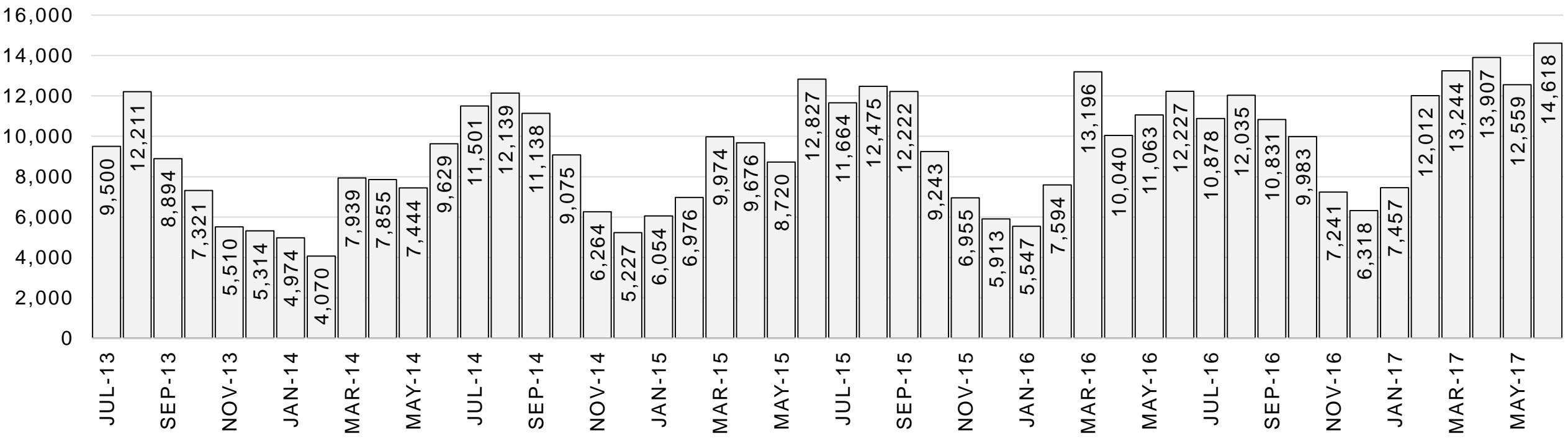
# CARRIER JET FLEET MIX

MAY 2017 JUNE 2017



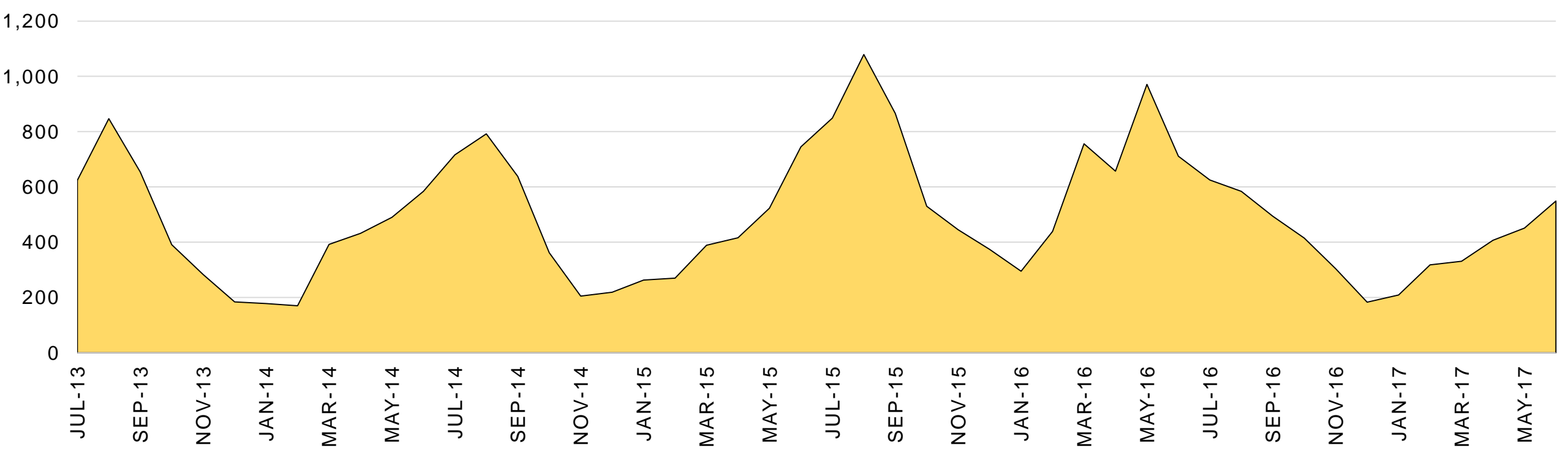
# MSP COMPLAINTS

MAY 2017				JUNE 2017			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
<b>12,559</b>	<b>451</b>			<b>14,618</b>	<b>549</b>		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
<b>2.8</b>	<b>108</b>	<b>28</b>	<b>3</b>	<b>2.5</b>	<b>163</b>	<b>27</b>	<b>3</b>



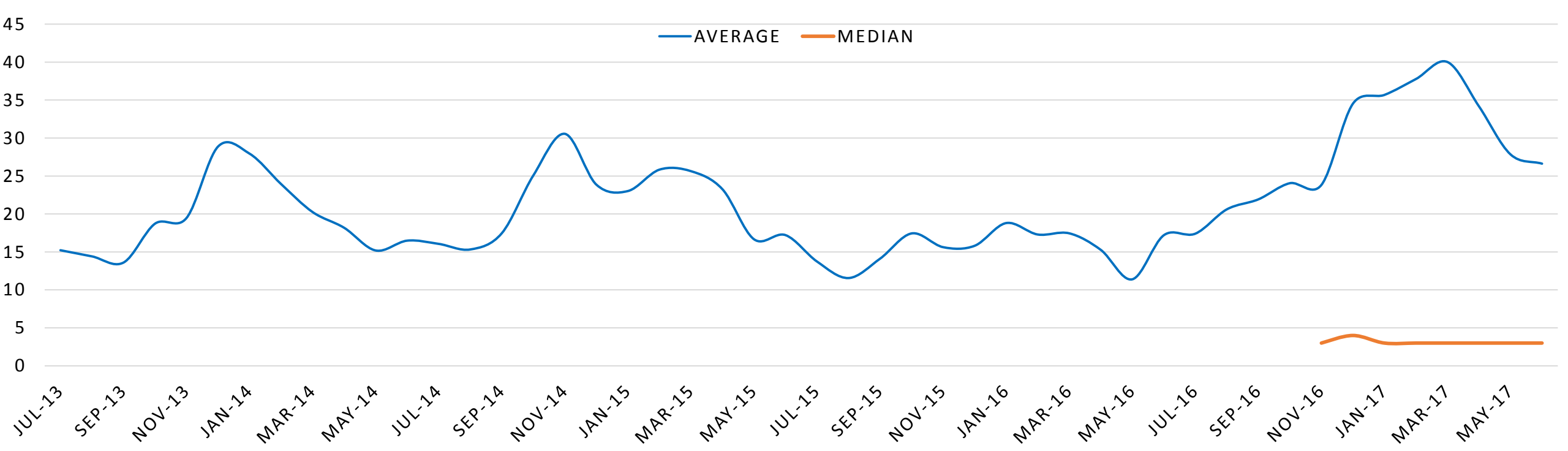
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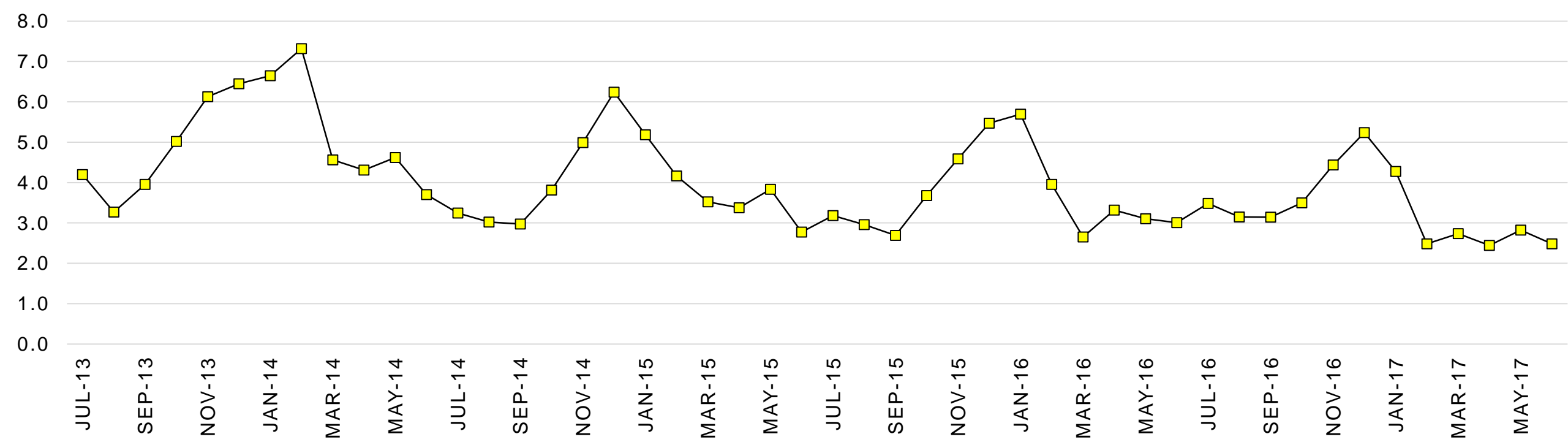
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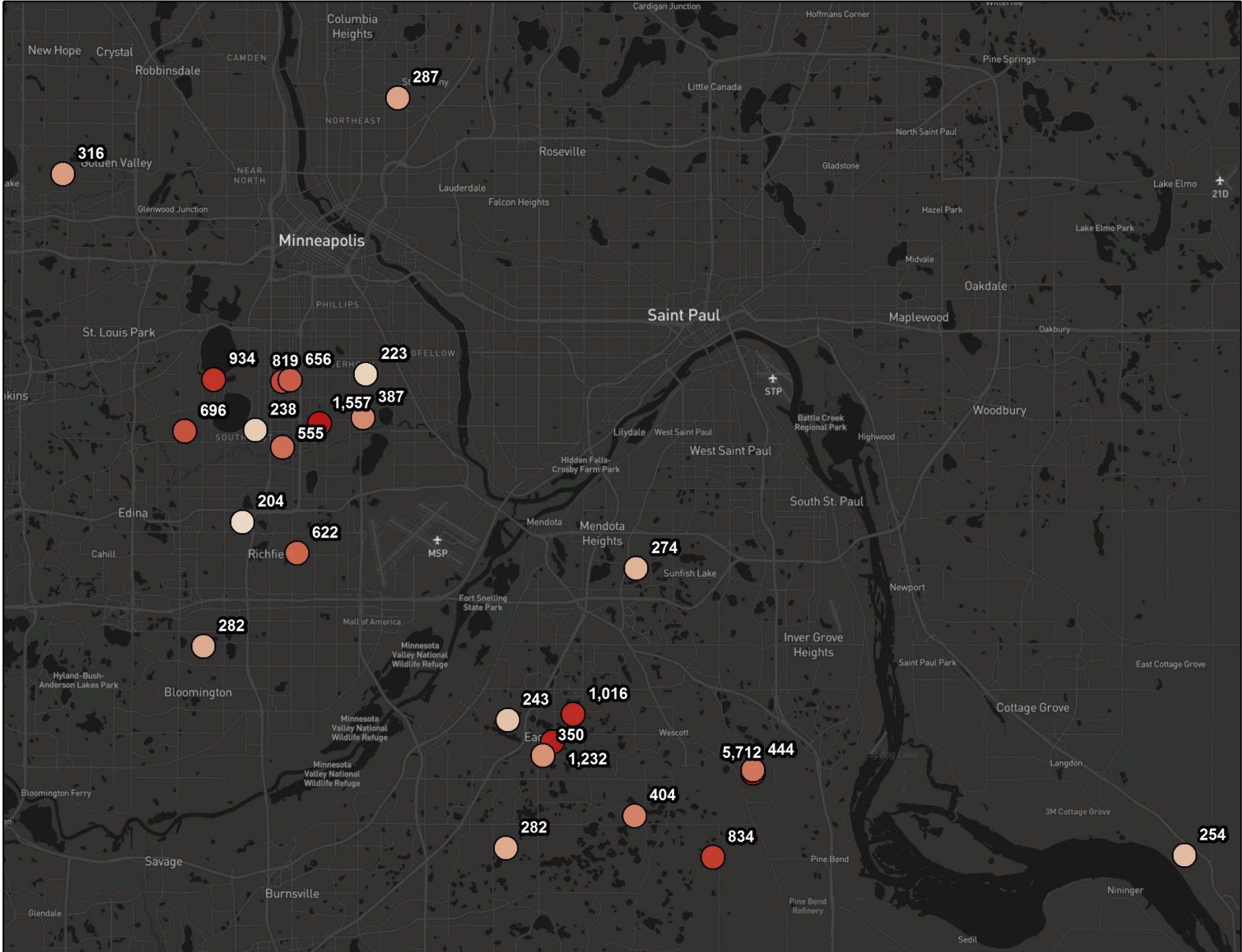
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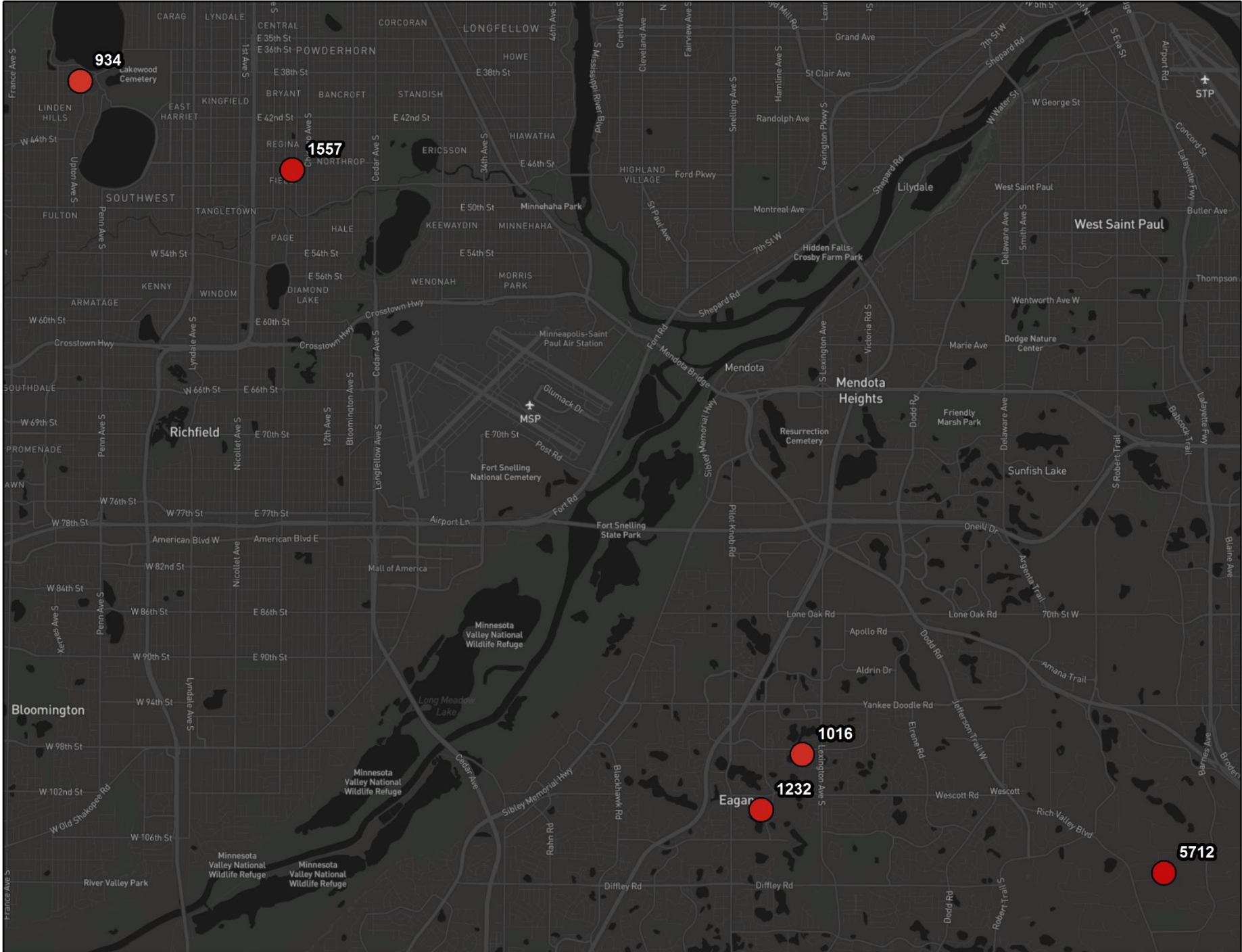


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934

1557

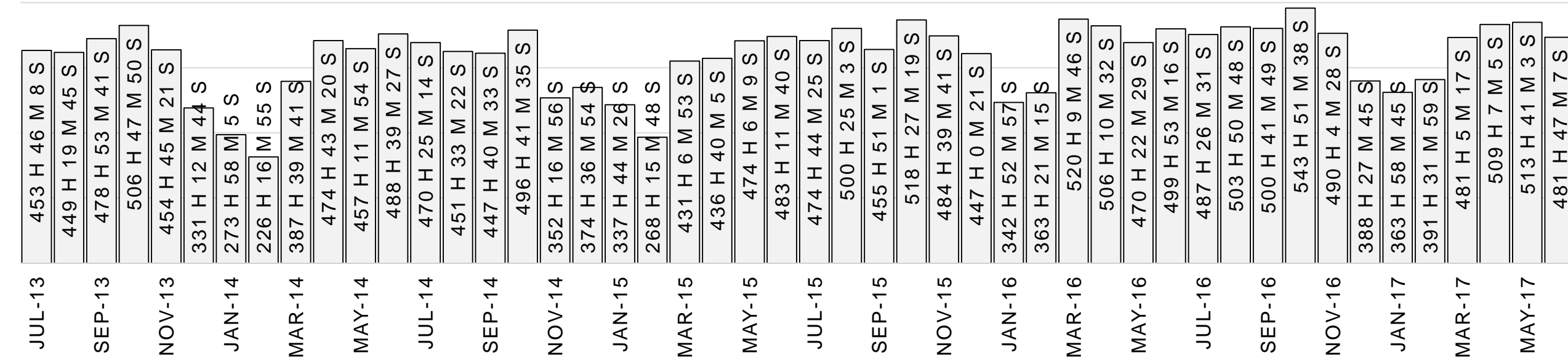
1016

1232

5712

# SOUND MONITORING

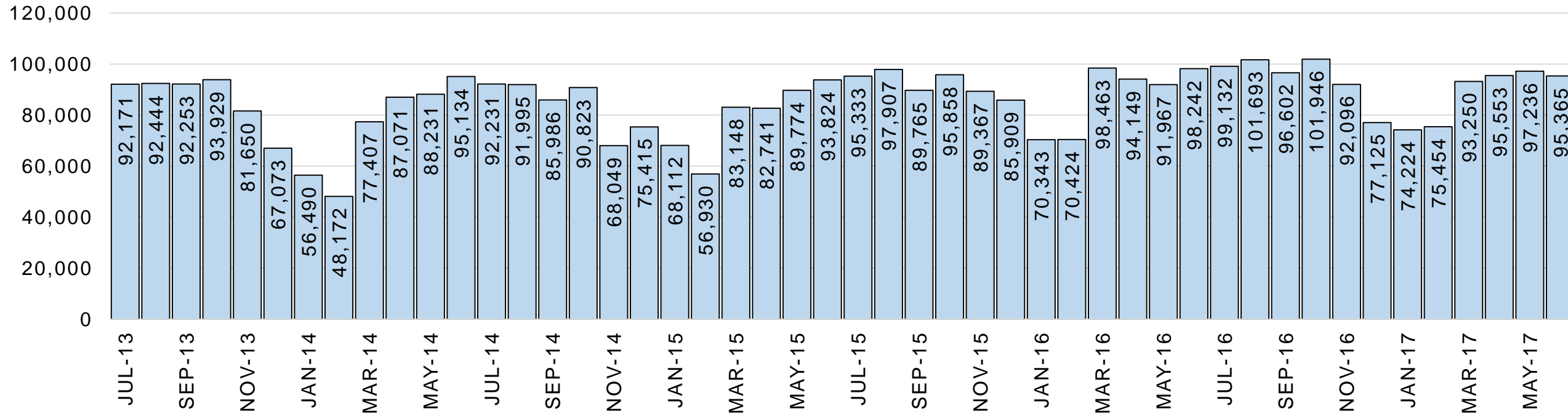
MAY 2017			JUNE 2017		
Time Above	<b>52<sub>s</sub></b> TA <sup>65</sup> per operation	<b>513<sub>h</sub> 41<sub>m</sub></b> TA <sup>65</sup>	Time Above	<b>48<sub>s</sub></b> TA <sup>65</sup> per operation	<b>481<sub>h</sub> 47<sub>m</sub></b> TA <sup>65</sup>
Count Above	<b>2.75</b> N <sup>65</sup> per operation	<b>97,236</b> N <sup>65</sup>	Count Above	<b>2.63</b> N <sup>65</sup> per operation	<b>95,365</b> N <sup>65</sup>





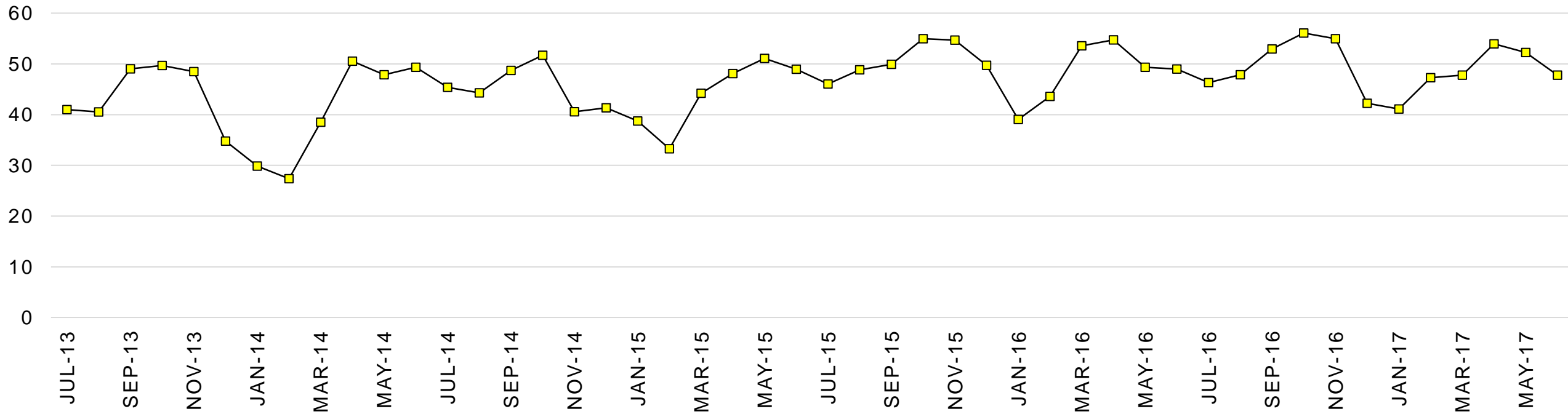
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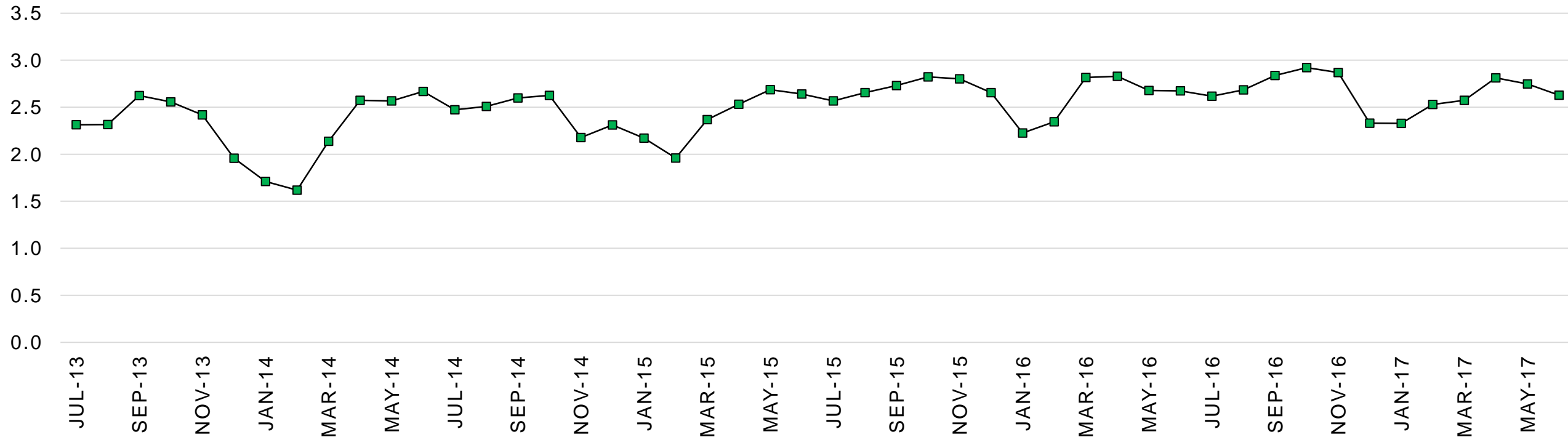
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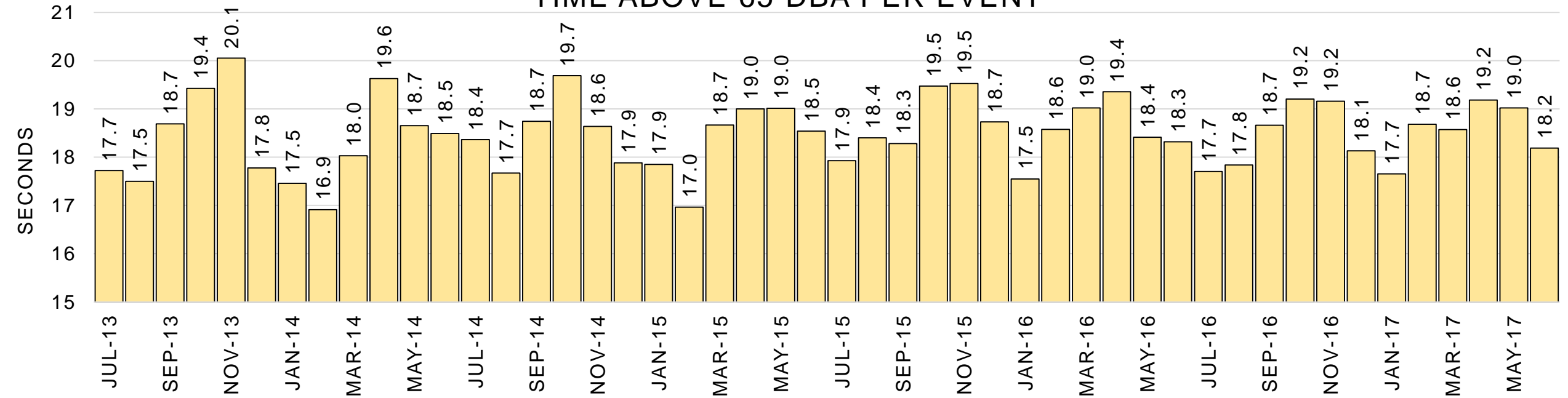
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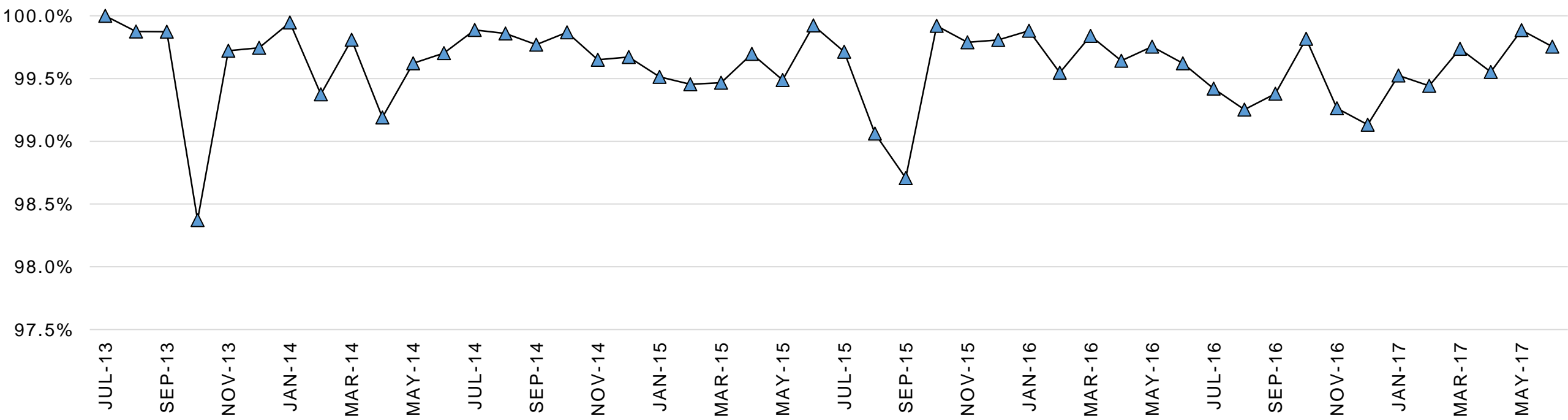
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TIME ABOVE 65 DBA PER EVENT



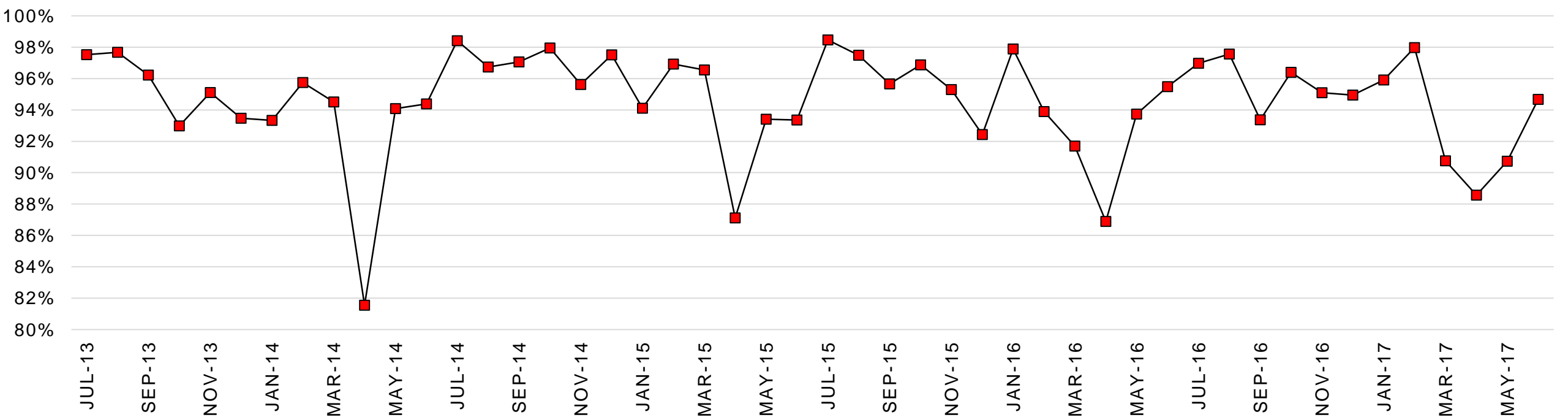
# NOISE ABATEMENT

MAY 2017				JUNE 2017			
Runway 17		99.9%		Runway 17		99.8%	
Corridor		90.7%		Corridor		94.7%	
Crossing		Day 38.4%	Night 32.7%	Crossing		Day 36.6%	Night 53.3%
RUS	Overall 53.2%	Arrivals 62%	Departures 44%	RUS	Overall 52.9%	Arrivals 60%	Departures 46%



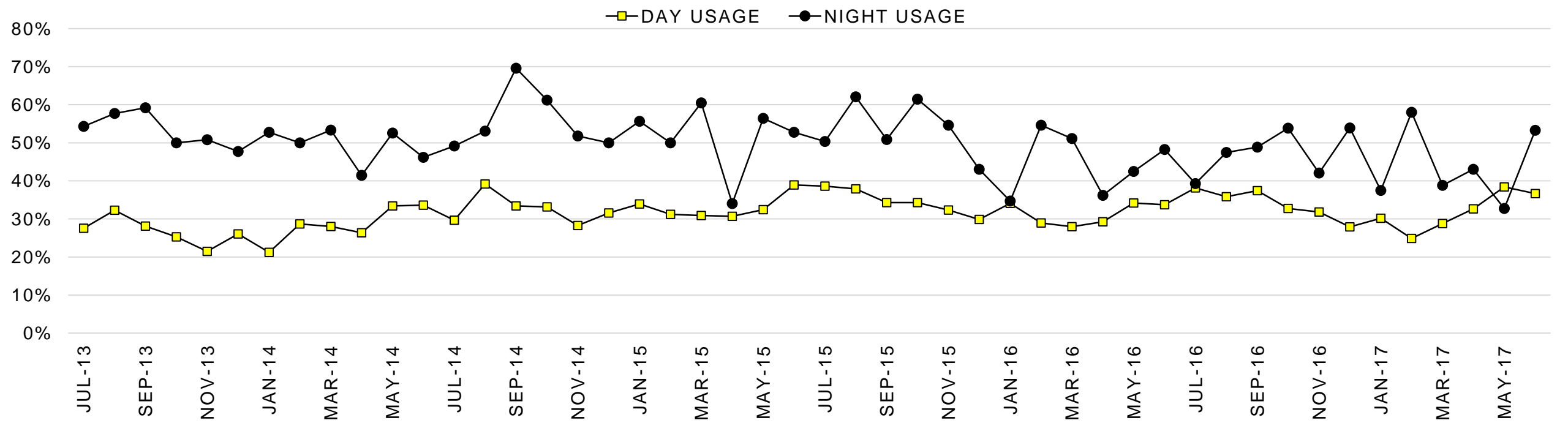
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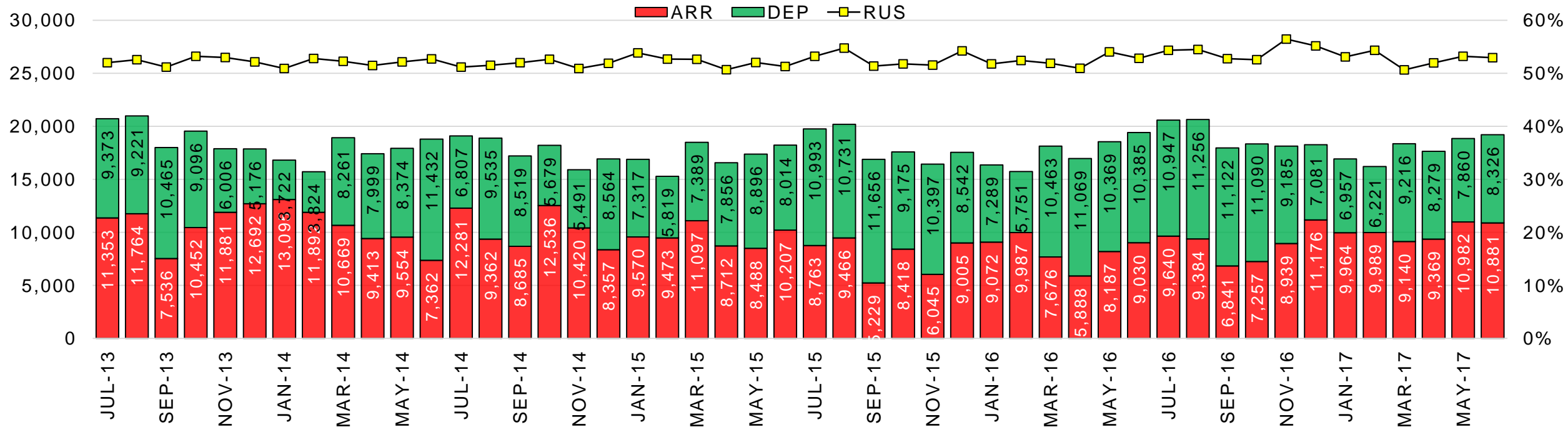
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**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Item 4: Review of Residential Noise Mitigation Program  
Implementation**

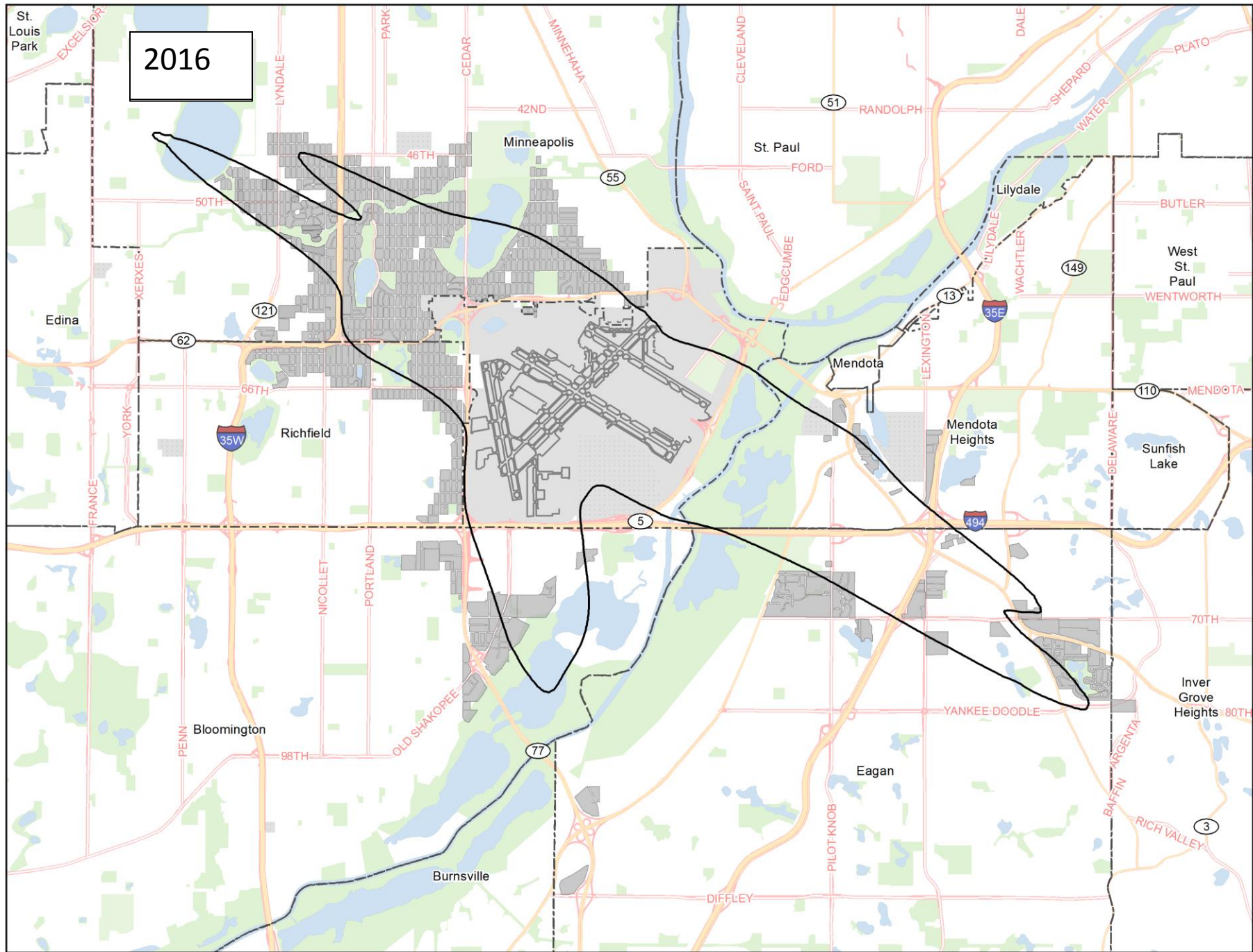


## Item 4: Review of Residential Noise Mitigation Program Implementation

### Presentation Outline

- MAC Noise Mitigation Program Timeline
- First and Second Amendments to the Consent Decree
- Mitigation Eligibility and Packages
- 2017 Mitigation Program
- 2018 Mitigation Program
- Questions



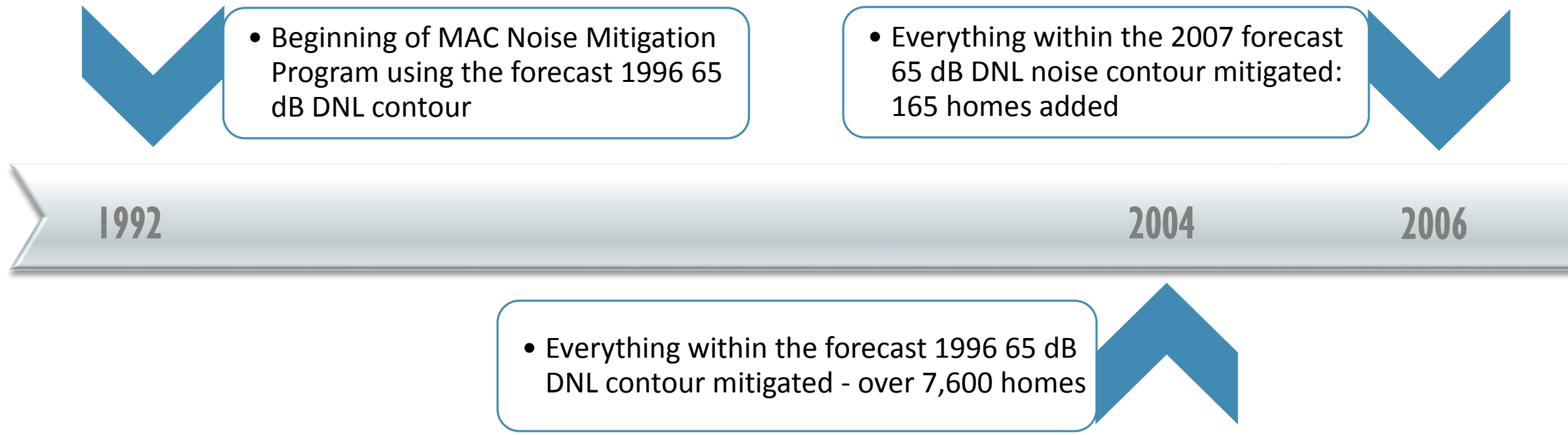


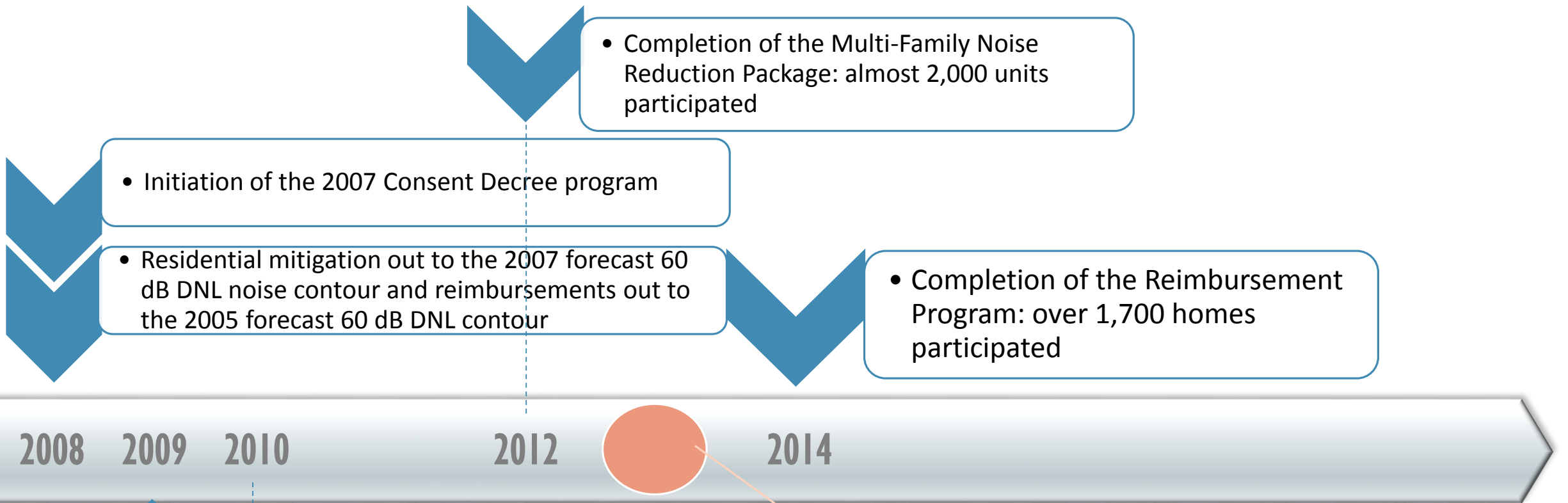
2016

60 dB DNL  
Mitigation

# Item 4: Review of Residential Noise Mitigation Program Implementation

## MAC NOISE MITIGATION TIMELINE





## Item 4: Review of Residential Noise Mitigation Program Implementation

### First Amendment to the Consent Decree

- In 2013, the parties of the 2007 Consent Decree jointly filed the First Amendment to the Consent Decree
- Commits the MAC to provide noise mitigation services until 2023
- Eligibility of single-family and multi-family homes will be determined annually, based upon actual noise contours that are developed for the preceding calendar year



## Item 4: Review of Residential Noise Mitigation Program Implementation

### Second Amendment to the Consent Decree

- In 2016, the parties of the 2007 Consent Decree jointly filed the Second Amendment to the Consent Decree
- Changed language to allow the new use of the new federally approved noise model
- Provided clarifying language regarding Opt-Out Eligibility criteria:
  - Homeowners not participating in the reimbursement program are not considered “Opt-Outs” and may participate in future programs provided the home meets eligibility requirements
  - Single-family homes that previously opted out of the Partial Noise Reduction Package may participate in the Full 5 dB Reduction Package provided the home meets the eligibility requirements



## Item 4: Review of Residential Noise Mitigation Program Implementation

### Mitigation Eligibility and Packages

- Per the amended Consent Decree, a home will become eligible if it is located, for a period of three consecutive years
  - in the actual 60-64 DNL noise contour, and
  - within a higher noise impact mitigation area when compared to the noise mitigation program under the Consent Decree, prior to the amendment
- The MAC will begin providing noise mitigation to homeowners in the year following their determination of eligibility





## Item 4: Review of Residential Noise Mitigation Program Implementation

### Mitigation Eligibility and Packages

The amended Consent Decree specifies 2 different mitigation packages for qualified single-family homes, depending on noise exposure level:

- Full 5-decibel Reduction Package
- Partial Noise Reduction Package

And 1 mitigation package for qualified multi-family units:

- Acoustical covers and Pull Through Air Conditioners (PTAC) installations if none exist



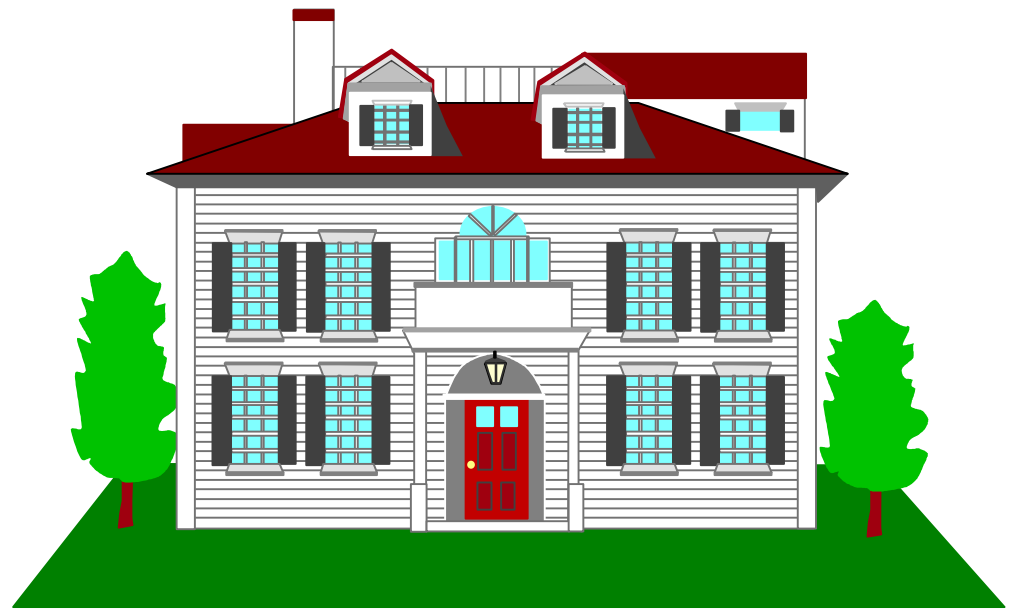
# Item 4: Review of Residential Noise Mitigation Program Implementation

## Mitigation Eligibility and Packages

### Full Five-decibel Reduction Package

Reduces interior noise levels by an average of five decibels, achieved by application of some or all of the following:

- Repair/replacement of exterior windows
- Addition, repair and/or replacement of exterior acoustic storm windows
- Repair/replacement of existing prime doors
- Addition, repair and/or replacement of exterior acoustic storm doors



- Addition of wall and attic insulation
- Baffling of roof vents and chimney treatment
- Addition of central air conditioning

*Note: Any reimbursement or mitigation improvements previously provided by the MAC will be deducted from the above-listed options.*



# Item 4: Review of Residential Noise Mitigation Program Implementation

## Mitigation Eligibility and Packages

### Partial Noise Reduction Package

Eligible homeowners pick one of the following:

- *Phase 4A*: Installation of central air conditioning and a total not to exceed \$5,395\* of noise mitigation products and services, including reasonable and customary installation costs; or



- *Phase 4B*: A total not to exceed \$18,884\* of noise mitigation products and services, including reasonable and customary installation costs.

*\*The mitigation budget for each home will be adjusted each year using the Consumer Price Index for the previous year. Any reimbursement previously provided by the MAC will be deducted from the allotted mitigation dollars.*



## Item 4: Review of Residential Noise Mitigation Program Implementation

### Mitigation Eligibility and Packages

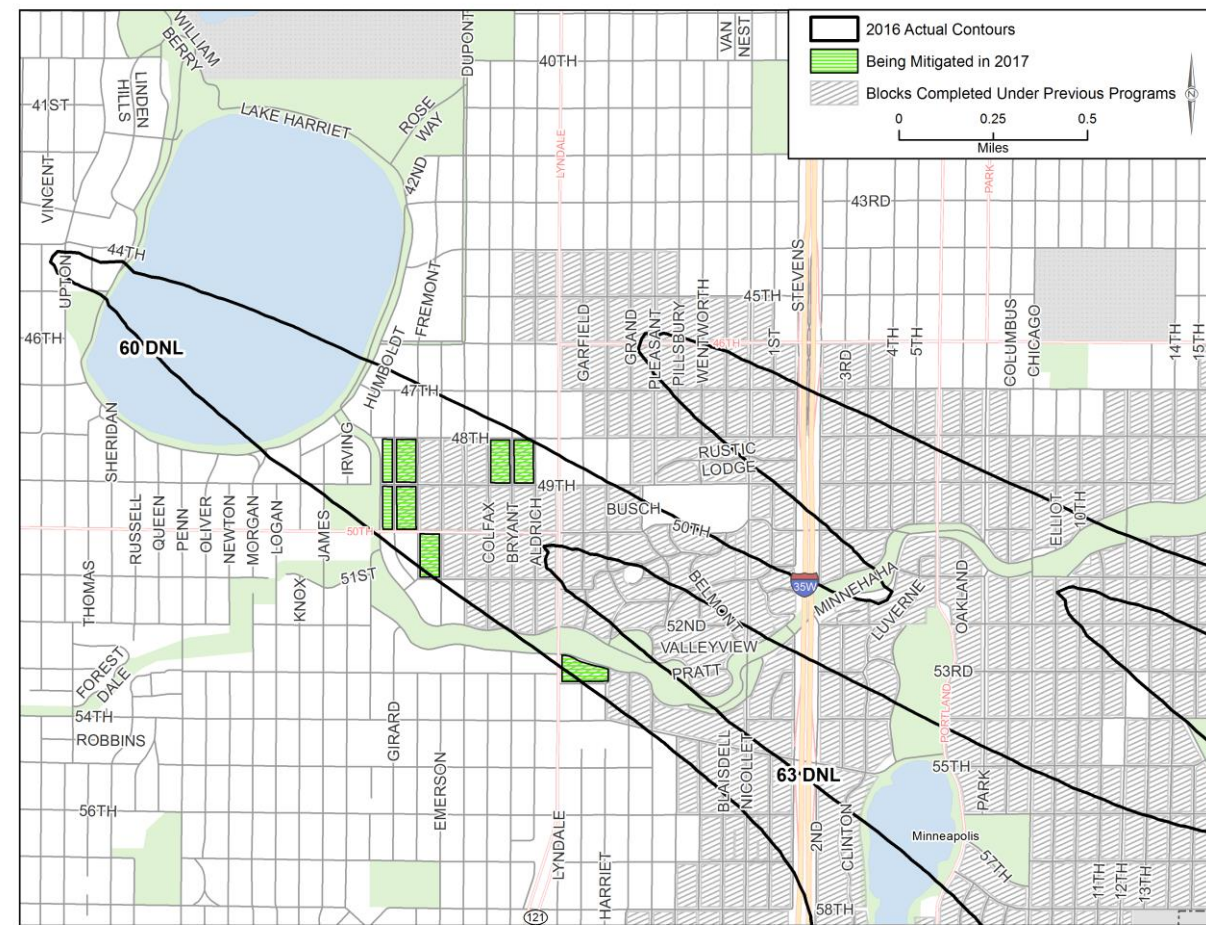
- A single 3-year contract to provide the various noise mitigation measures was awarded by the MAC in January 2017
- Contract will provide coverage for homes eligible for execution from 2017-2019



# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2017 Mitigation Program

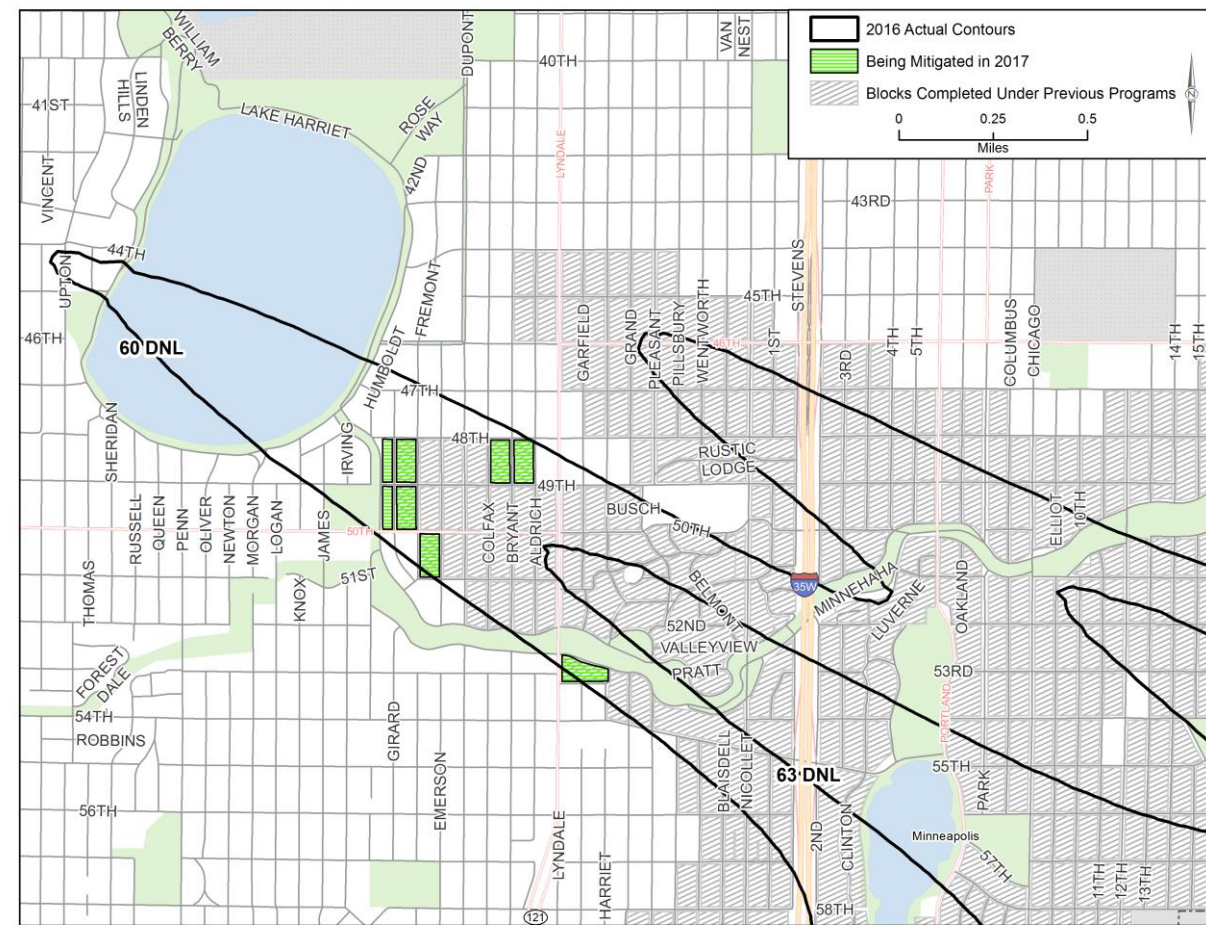
- The 2013/2014/2015 actual noise contours qualified 138 single-family and 88 multi-family homes for the Partial Noise Reduction Package
- In collaboration with the City of Minneapolis, letters confirming home's eligibility were sent in June 2016



# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2017 Mitigation Program

- A series of three Homeowner Orientation meetings were held in March 2017
- Design Visits of homes began in March 2017
- Construction on the first homes began in June 2017
- All 2017 Mitigation Program homes will be completed by December 31, 2017

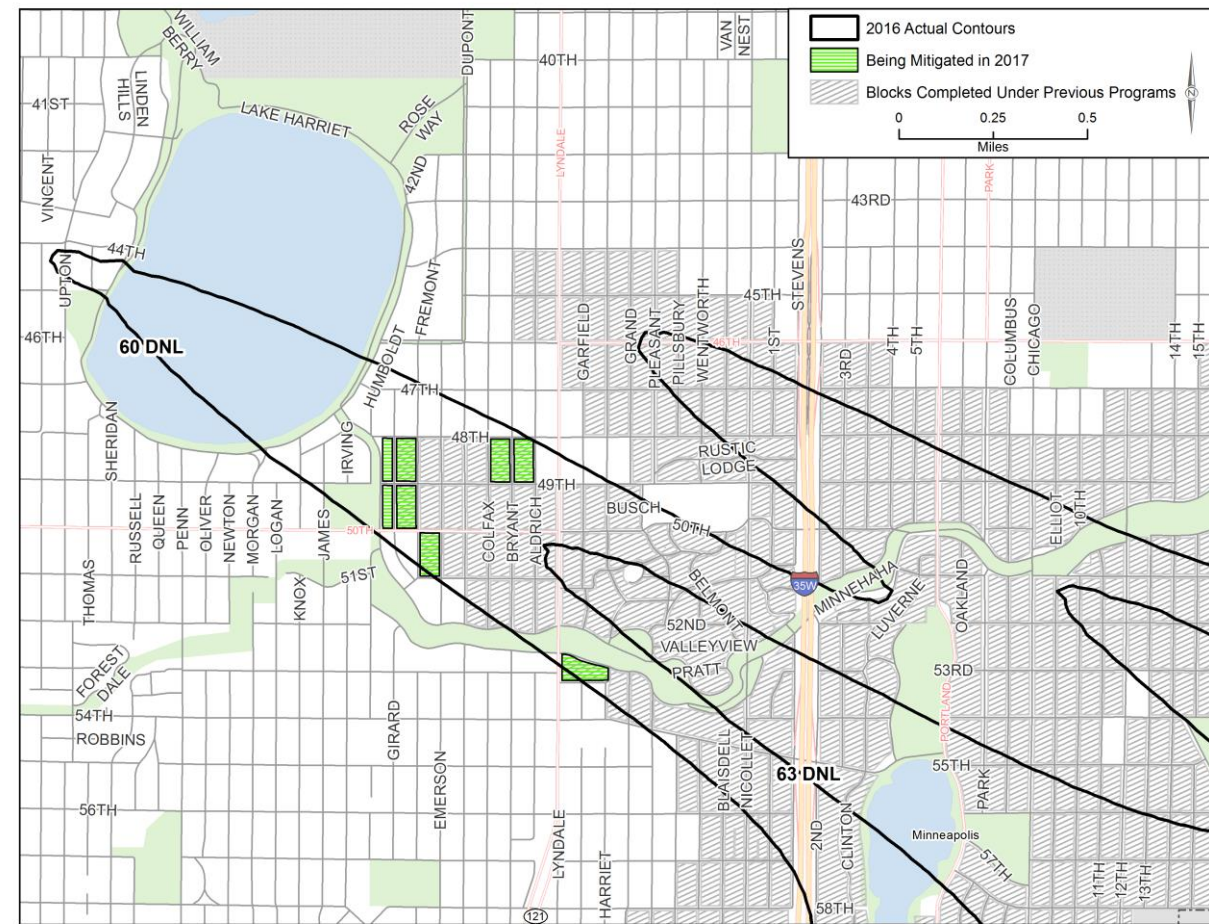


# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2017 Mitigation Program – Status Report (as of July 11, 2017)

The following presents a breakdown of project progress on a total of **54 homes** in *Phase 4A* (\$5,395 + AC).

Noise Mitigation Status	
COMPLETED HOMES	-
Homes in Construction	21
Homes in Pre-Construction	31
Declined Participation	2
Final Notice – Non-Participating	-
<b>Total</b>	<b>54</b>



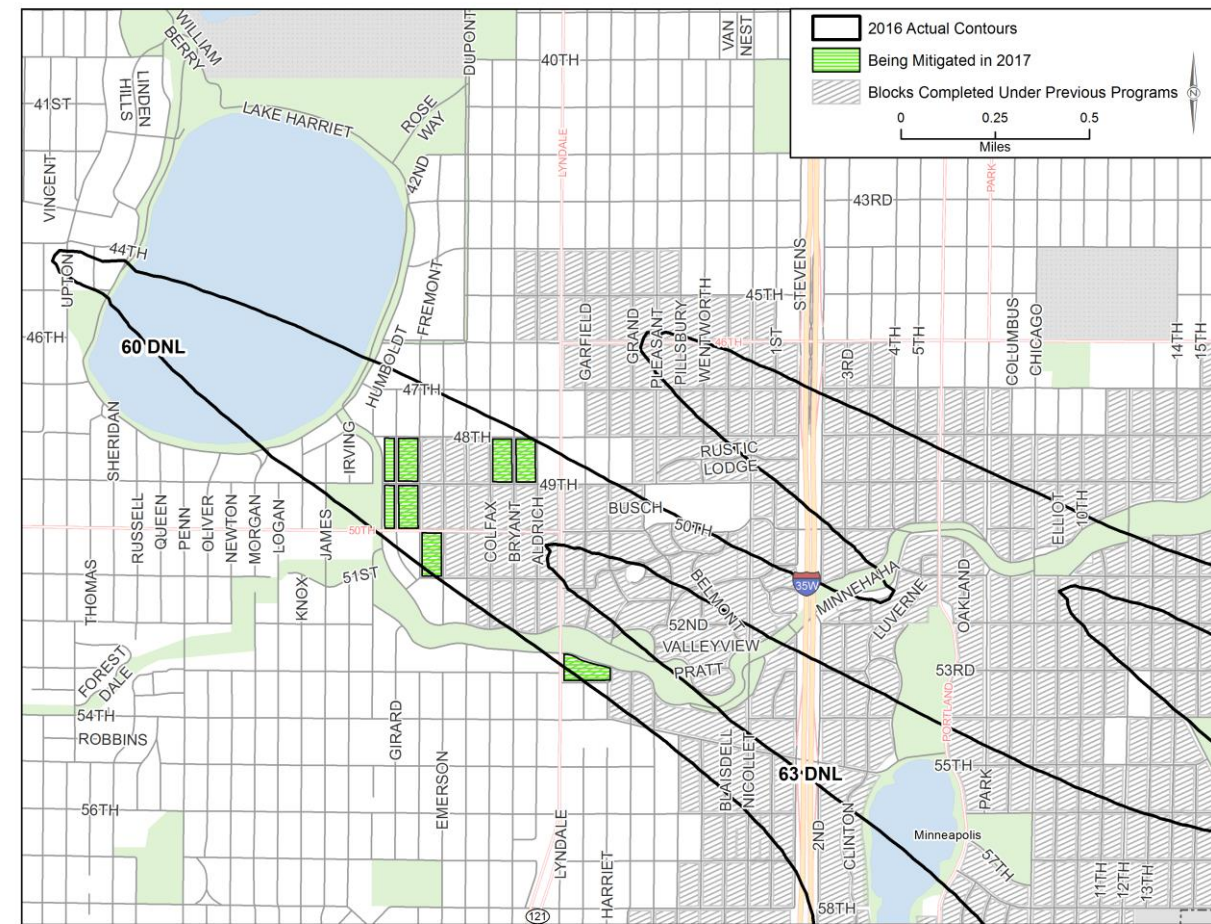
Note: **1 home** declined participation due to a pending sale. Once there is a new homeowner, we will invite them into the program.

# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2017 Mitigation Program – Status Report (as of July 11, 2017)

The following presents a breakdown of project progress on a total of **84 homes** in *Phase 4B* (\$18,884).

Noise Mitigation Status	
COMPLETED HOMES	1
Homes in Construction	17
Homes in Pre-Construction	62
Declined Participation	4
Final Notice – Non-Participating	-
<b>Total</b>	<b>84</b>



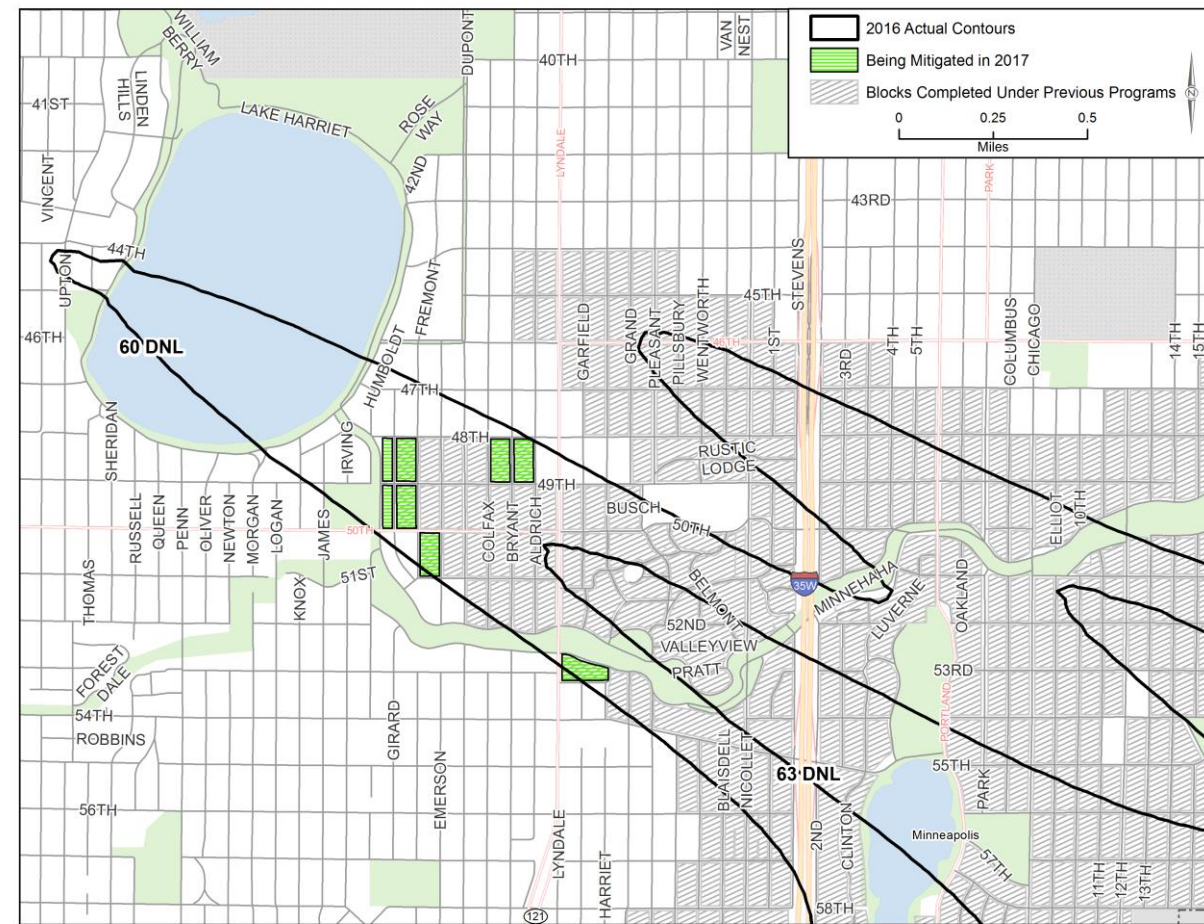


# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2017 Mitigation Program – Status Report (as of July 11, 2017)

The following presents a breakdown of project progress on a total of **88 multi-family units**.

Noise Mitigation Status	
COMPLETED UNITS	-
Units in Construction	-
Units in Pre-Construction	6
Declined Participation	82
Final Notice – Non-Participating	-
<b>Total</b>	<b>88</b>

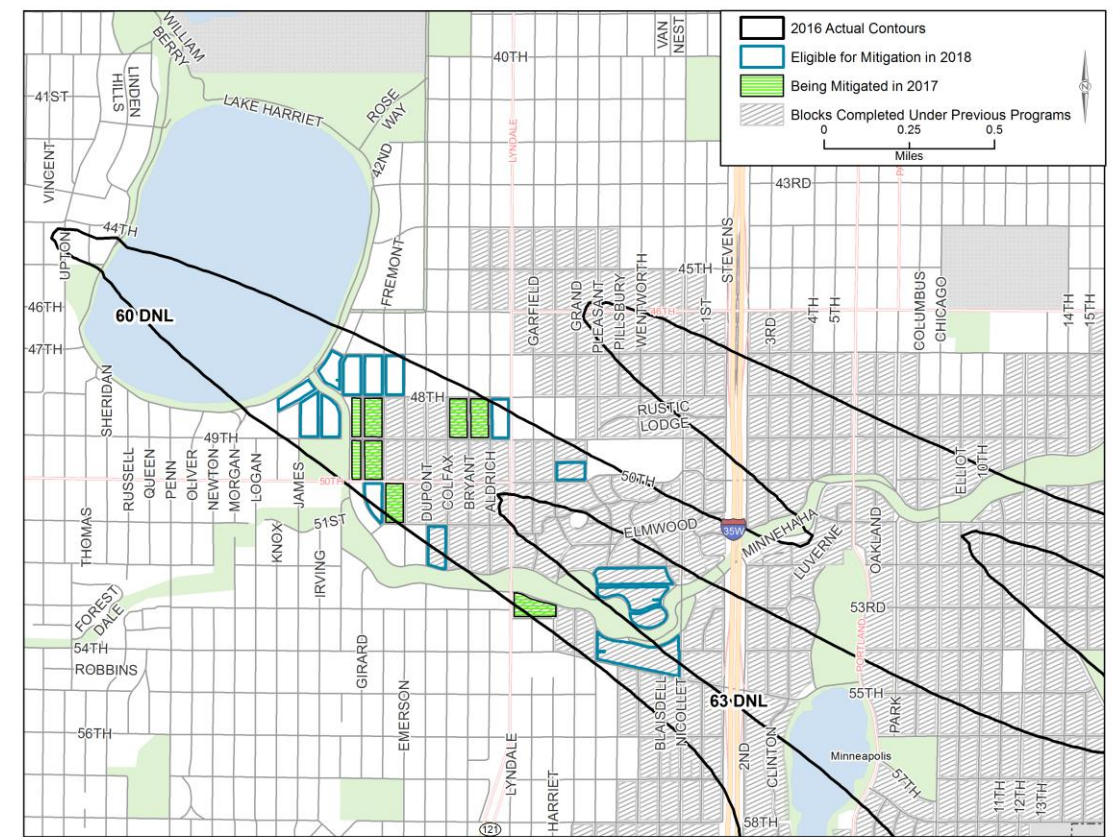


Note: an apartment complex with **82 units** declined participation because it already has Pull-Through Air Conditioners and did not want the acoustical covers.

# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2018 Mitigation Program

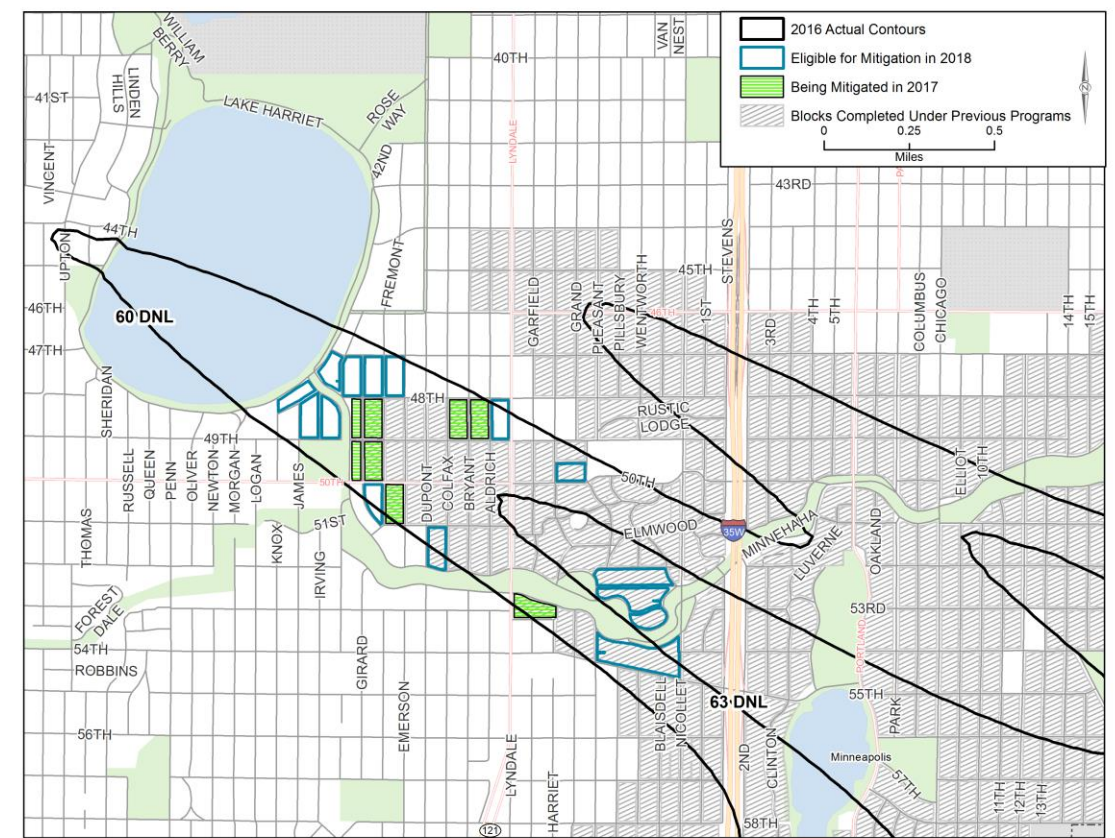
- The 2014/2015/2016 actual noise contours qualified 164 single-family homes for the Partial Noise Reduction Package and 123 single-family homes for the Full 5 dB Reduction Package
- In collaboration with the City of Minneapolis, letters, questionnaires, and orientation meeting invites were sent to qualified homeowners in June 2017



# Item 4: Review of Residential Noise Mitigation Program Implementation

## 2018 Mitigation Program

- A series of six Homeowner Orientation meetings will be held on a monthly basis beginning in July 2017
- Design Visits of homes will begin in August 2017
- Construction efforts will begin in January 2018
- All 2018 Mitigation Program homes will be completed by December 31, 2018



# Item 4: Review of Residential Noise Mitigation Program Implementation

Questions





**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Item 5: 2018 Super Bowl Aircraft Activity Update**



## **AGENDA**

- **The Handoff**
- **Mission Statement**
- **SB LI**
  - **Safety & Security**
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  - **Ground Transportation**
  - **Volunteers**
  - **Operations**
- **Committees**
- **SB LII Planning**
- **FAA**

# **SUPER BOWL LII**

## **Noise Oversight Committee**

**200 Days Until Game Day**

July 19, 2017 – February 4, 2018



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# **AGENDA**

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# **The Handoff**





## **AGENDA**

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# **Mission Statement**

## **AGENDA**

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# **Why have a mission statement for this event?**

- **Day after SB LII has strong potential for busiest passenger day in MSP history and busiest operational day ever at MAC relievers**
- **Provides an aspirational focal point to help guide work and give airport community confidence that we can pull this event off exceptionally well**

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# MISSION STATEMENT

**Boldly welcoming Super Bowl LII to Minnesota, where our people are surprisingly warm, the airport communities world-class, and the experience unforgettable.**



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HOUSTON AIRPORT SYSTEM

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# Safety & Security



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**HOUSTON AIRPORT SYSTEM**

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# **Safety & Security**

## **Law Enforcement Considerations**

- **People**
- **Calls for service**
- **Staffing**
- **Traffic management**
- **Human Trafficking/Training**
- **Airport EOC Activation**



  
HOUSTON AIRPORT SYSTEM

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# General Aviation Airports



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HOUSTON AIRPORT SYSTEM

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# **General Aviation Airports**

**Finding room to land,  
service and park ~1600  
aircraft operations**





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**Ground  
Transportation**



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HOUSTON AIRPORT SYSTEM

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- FAA



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# Ground Transportation

## Key Observations

- Arrivals
  - Stakeholder Engagement
  - Holding Lots
  - Coordination between Curbside and Holding Lots
- Departures
  - Use of Arrival Curbs
  - Traffic Control



HOUSTON AIRPORT SYSTEM

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HOUSTON AIRPORT SYSTEM

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# Volunteers

Airport Volunteers



Host Committee Volunteers



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HOUSTON AIRPORT SYSTEM

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Host Committee



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# Branding



HOUSTON AIRPORT SYSTEM

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# Space



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**People**



**HOUSTON AIRPORT SYSTEM**

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# Weather



  
HOUSTON AIRPORT SYSTEM

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# Super Bowl LII Airports Committee

<b>Coordinator</b>	Phil Burke
<b>Accessibility</b>	Ken Rodgers
<b>Airfield</b>	John Ostrom
<b>Airlines</b>	MSP Station Managers
<b>Airport Development</b>	Bridget Rief Gary Warren
<b>Arts</b>	Robyne Robinson
<b>Branding/Wayfinding</b>	Heather Leide Kate Webb
<b>Concessions</b>	Liz Grzechowiak Isabella Rhawie
<b>Customer Service</b>	Amanda Green Guentzel Katlyn Kaiser
<b>Customs &amp; Border Protection (CBP)</b>	Kathleen Koetz
<b>Emergency Preparedness</b>	Kristi Rollwagen Dr. Arnold Vang - CDC
<b>Environment</b>	Chad Leqve
<b>Federal Aviation Administration (FAA)</b>	Sean Fortier Kurt Mara Virginia Smith
<b>Fire Department</b>	Dave Burke Greg Fuller Nathan Kreye Jeff Lanenberg
<b>Fixed Base Operations (FBO) Signature</b>	Kyle Schmaltz Matt Hall
<b>Information Technology</b>	Eduardo Valencia

<b>Law Enforcement</b>	Mike Everson Keith Roediger Chris Kummer
<b>Media/Marketing</b>	Pat Hogan Melissa Scovronski John Welbes
<b>Minneapolis Police Department Aviation Department</b>	Jennifer Merrill Dave Mattsson
<b>MN Host Committee</b>	Kyle Chank Kevin Wright
<b>National Business Aviation Association</b>	Dean Snell
<b>NFL</b>	Jose Hernandez
<b>Out-State Airports</b>	Kurt Claussen (Rochester) Bill Towle (St Cloud) Kevin Baker (Mankato) Dave Beaver (Owatonna) Tom Werner (Duluth) Charity Zich (Eau Claire) Clinton Torp (La Crosse)
<b>Reliever Airports</b>	Joe Harris Gary Schmidt
<b>Sustainability</b>	Christene Sirois Kron Tiffany Finley
<b>Terminal/Space</b>	Jeff Nawrocki Dan Foster
<b>Terminal Space Requests</b>	Mark Bents
<b>Transportation/Rental Cars</b>	Atif Saeed Brian Peters Karen Racek
<b>Transportation Security Administration (TSA)</b>	Dave McMahon
<b>Volunteers</b>	Terry Ferguson Jana Webster

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# **Super Bowl LII Planning**

A large, semi-transparent image of a Super Bowl LII coin is centered in the background. The coin is dark with 'SUPER BOWL LII' embossed on it. The text 'SUPER BOWL LII' is also overlaid in large yellow font on the coin. Below the coin, the words 'Host Committee' and 'Committee' are faintly visible.



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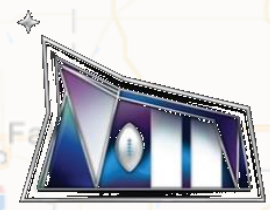
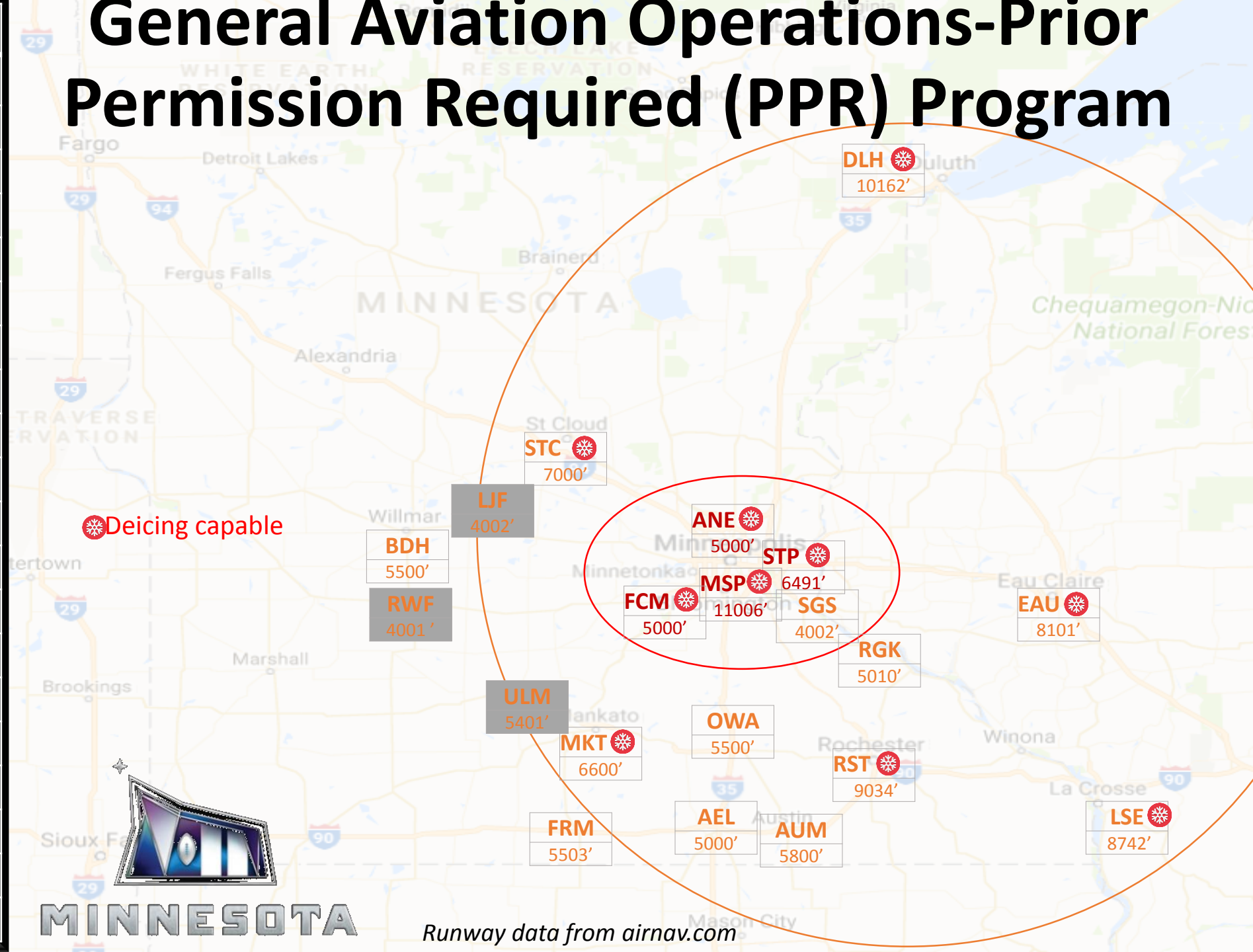
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# **Busiest Passenger Days in MSP History AND Providing an Exceptional Customer Experience**



Airport	Name		Max Runway	Space
MSP	Minneapolis - St. Paul	Y	11006	~275
STP	St. Paul	Y	6491	~200
FCM	Eden Prairie	Y	5000	~200
ANE	Anoka	Y	5000	~200
DLH	Duluth	Y	10162	
EAU	Eau Claire	Y	8101	
RST	Rochester	Y	9034	
MKT	Mankato	Y	6600	
OWA	Owatonna	Y	5500	
STC	St. Cloud	Y	7000	
LSE	La Crosse	Y	8742	
AUM	Austin	Y	5800	
AEL	Albert Lea	Y	5000	
FRM	Fairmont	Y	5503	
RGK	Red Wing	Y	5010	
SGS	South Saint Paul	Y	4002	
BDH	Willmar	Y	5500	
LJF	Litchfield	N		
ULM	New Ulm	N		
RWF	Red Wood Falls	N		

# General Aviation Operations-Prior Permission Required (PPR) Program



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Runway data from airnav.com



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# Minneapolis Super Bowl 52 Planning Update

**NOC Meeting July 2017**

Sean Fortier  
Traffic Management Officer  
Minneapolis Air Route Traffic Control Center

[Sean.Fortier@faa.gov](mailto:Sean.Fortier@faa.gov)  
(651) 463-5863

Minneapolis Air Route Traffic Control Center



Federal Aviation  
Administration

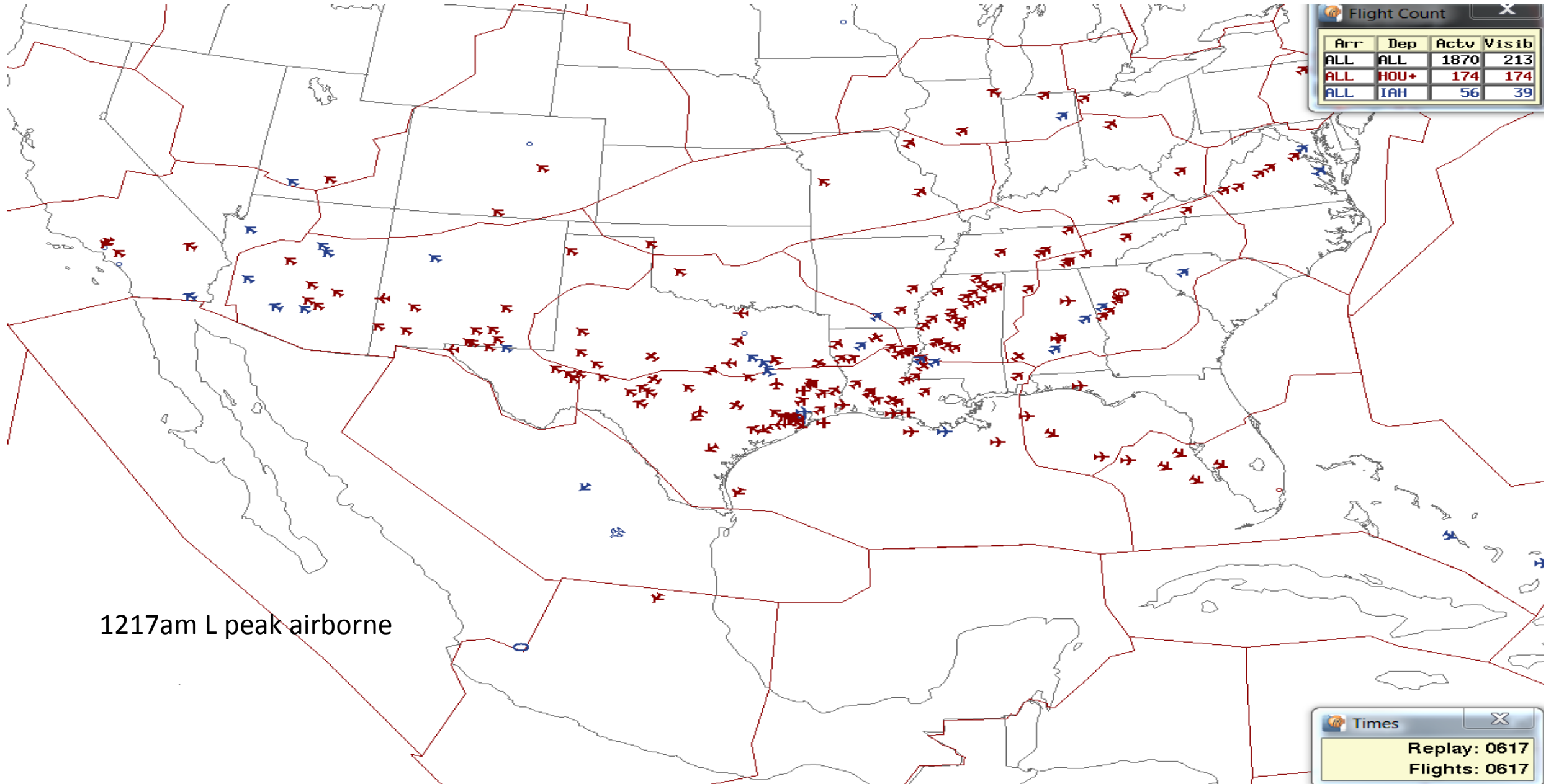


# Phased Planning

- **Lessons Learned / Research Phase**
- **Planning and Development Phase**
- **Outreach Phase**



# SB51 Historical Data



Arr	Dep	Actv	Visib
ALL	ALL	1870	213
ALL	HOU+	174	174
ALL	IAH	56	39

Times
Replay: 0617
Flights: 0617

# Expectations By the #s

- **Main impact Thursday through Monday**
- **1100 aircraft on the ground Sunday**
- **3000 additional operations**



# Houston Area Departures and Arrivals

	02/02/2017	02/03/2017	02/04/2017	02/05/2017	02/06/2017	Grand Total
Grand Total	542	555	426	547	1092	3162



# Airports

- **Parking plans being finalized:**
  - 225-265 @ MSP
  - 170-200 @ STP
  - 225 @ FCM
  - 200 @ ANE

**Total = 820-890 Parking Spots Available**



An aerial photograph of a tarmac at an airport. Numerous private jets are parked in neat rows, facing towards the right. The aircraft are mostly white with various livery designs, including red and blue accents. Some registration numbers are visible, such as N300HO, N894WA, N897M, N897AS, N617RX, N699TM, N10EF, N213RG, N357AS, N704JW, N844UP, N845UP, N846UP, N847UP, N848UP, N849UP, N850UP, N851UP, N852UP, N853UP, N854UP, N855UP, N856UP, N857UP, N858UP, N859UP, N860UP, N861UP, N862UP, N863UP, N864UP, N865UP, N866UP, N867UP, N868UP, N869UP, N870UP, N871UP, N872UP, N873UP, N874UP, N875UP, N876UP, N877UP, N878UP, N879UP, N880UP, N881UP, N882UP, N883UP, N884UP, N885UP, N886UP, N887UP, N888UP, N889UP, N890UP, N891UP, N892UP, N893UP, N894UP, N895UP, N896UP, N897UP, N898UP, N899UP, N900UP. A small blue ground service vehicle is visible on the left side of the tarmac. The text "Expect 200-300 and Go Operations" is overlaid in white on the right side of the image, and "Drop" is overlaid in white on the far right side.

Expect 200-300  
and Go Operations

Drop



Minneapolis Air Route Traffic Control Center



Federal Aviation  
Administration



# Ellington Airfield

		02/02/2017	02/03/2017	02/04/2017	02/05/2017	02/06/2017	Grand Total
Arrival		18	40	52	69	48	227
Departure		9	22	17	38	152	238
<b>Grand Total</b>		<b>27</b>	<b>62</b>	<b>69</b>	<b>107</b>	<b>200</b>	<b>465</b>



# Mitigating the Volume

- **Flow rates based on saturated airspace**
- **Arrival vs. Departure Phase**
- **Existing departure and arrival routes for MSP and Satellite Airports used**



# FAA Air Traffic Super Bowl Web Site:

- [www.fly2sb52.org](http://www.fly2sb52.org)



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# Questions?



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## NOISE OVERSIGHT COMMITTEE JULY 19, 2017

### Item 6: Fly Quiet Award Program Evaluation

The 2017 NOC Work Plan includes an evaluation of the benefits, challenges and applicability of a Fly Quiet Award Program at MSP. Some U.S. airports have instituted such programs. Staff conducted a baseline evaluation of three existing programs.



# Item 6: Fly Quiet Award Program Evaluation



## Vancouver International (YVR)

- Award based on average annual noise levels at noise monitors located under their main departure runway
- Some airlines are pleased, however the award has not resulted in airlines changing operations to comply with the award criteria



## Oakland International (OAK)

- Award based on adherence to existing voluntary noise abatement procedures
- Has not been awarded in several years due to staffing limitations





### Seattle-Tacoma International (SEA)

- Award based on adherence to noise abatement procedures, single event noise levels at noise monitors, field rule violations for ground run-ups
- The airport does not receive much feedback from operators, other than they are happy to receive the award







**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

**Item 7: Public Comment Period**





**NOISE OVERSIGHT COMMITTEE**  
**JULY 19, 2017**

Next NOC meeting  
**September 20, 2017 @ 1:30 PM**  
**MAC General Offices**  
**6040 28<sup>th</sup> Avenue South**  
**Minneapolis, MN 55450**

**Item 8: Announcements**

Summer Listening Session  
**July 26, 2017 @ 7:00 PM**  
**Apple Valley, MN**

