

Port Authority of New York and New Jersey

Fly Quiet Programs
LGA Roundtable Briefing

March 27, 2024



Agenda

- Background
- Status and Updates
- Q&A



Background



Background on PANYNJ Fly Quiet Programs

- Recommended program management measure in the Part 150s for all four PANYNJ airports
- Establish new programs at JFK, LGA, and EWR Airports
- Enhance and support the existing TEB Quiet Flying Program

What is a Fly Quiet Program?

- A voluntary **collaboration** of Port Authority, Airlines, aircraft operators and FAA air traffic controllers that **encourages** them to use suggested quieter aircraft, noise abatement flight procedures, and preferential runways



**Awareness
Campaign**

**Data
Reporting**

**Benefits
beyond the
65 DNL
contour**

Benchmarking and Development

- Benchmarking conducted in 2022
 - Surveys and interviews of other airports with FQPs nationwide
 - Review of Part 150 comments, suggestions, and recommendations in the NCP Appendices
- Technical Focus Groups 2022-2023
 - Involving airlines, operators, airports and the FAA
 - Working together to develop the FQPs

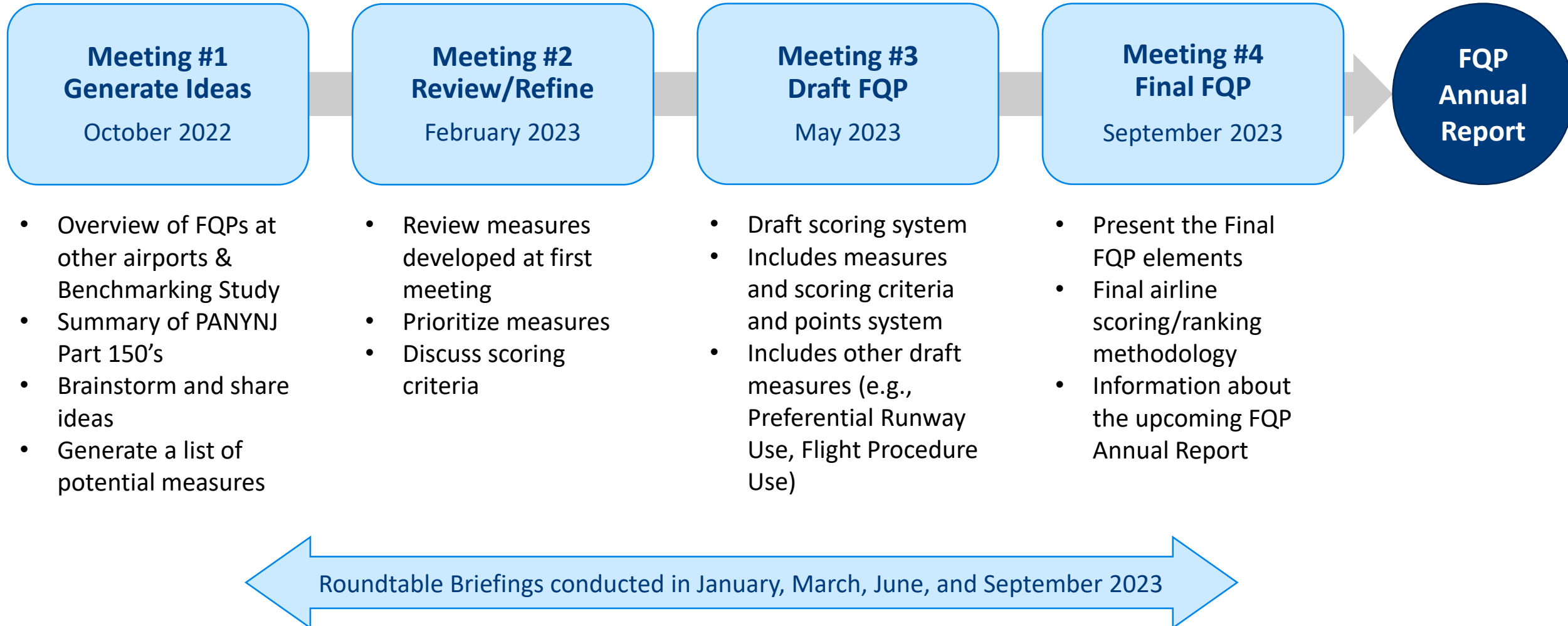
Airports interviewed and researched:

San Francisco Intl.
San Diego Intl.
Seattle-Tacoma Intl.
Aspen/Pitkin County
Teterboro Airport
Los Angeles Intl.
John Wayne Airport
O'Hare International
Jackson Hole Airport
Philadelphia Intl.

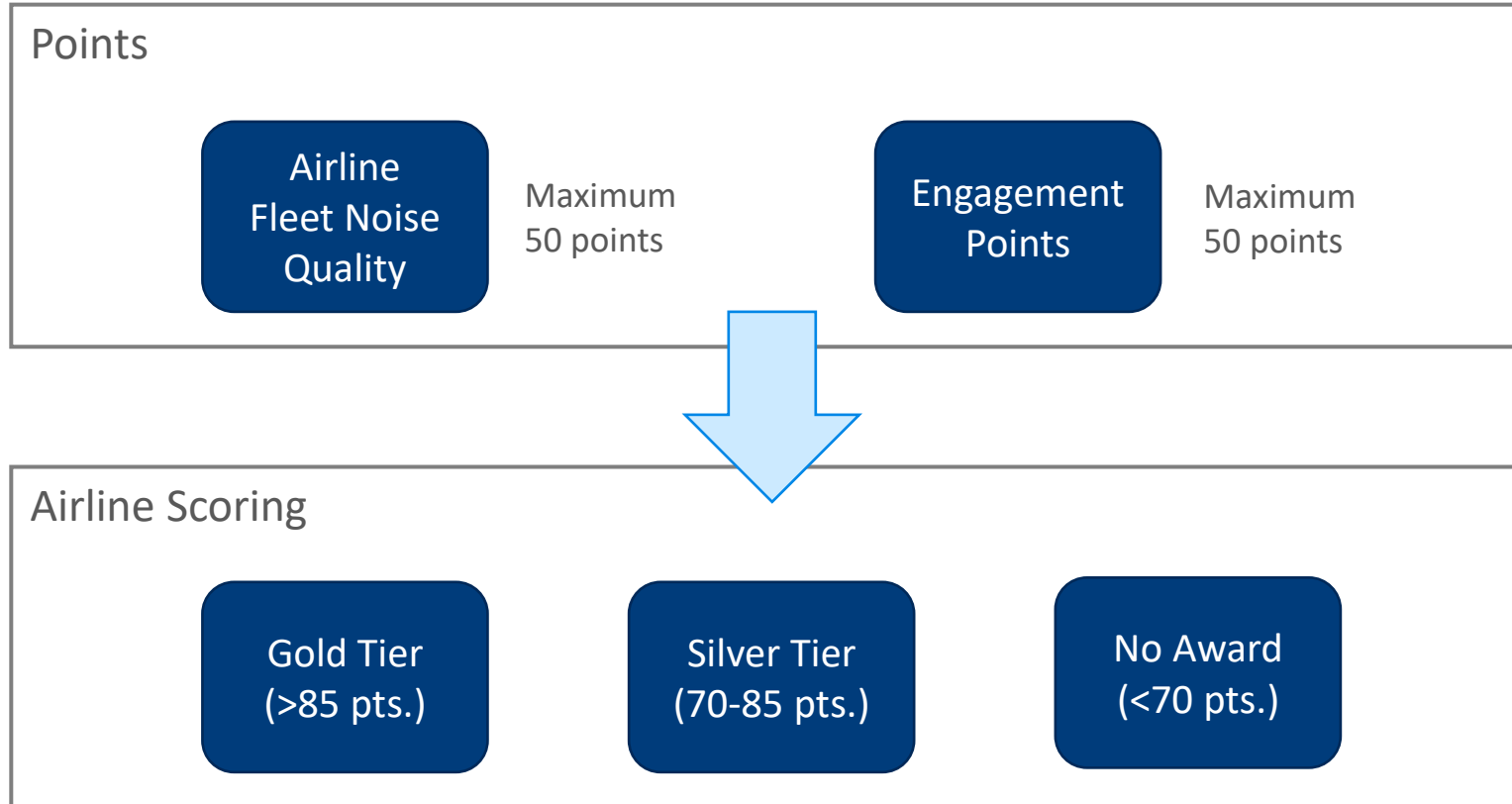
Status and Updates



Program Development, 2022-2023



Scoring System Overview



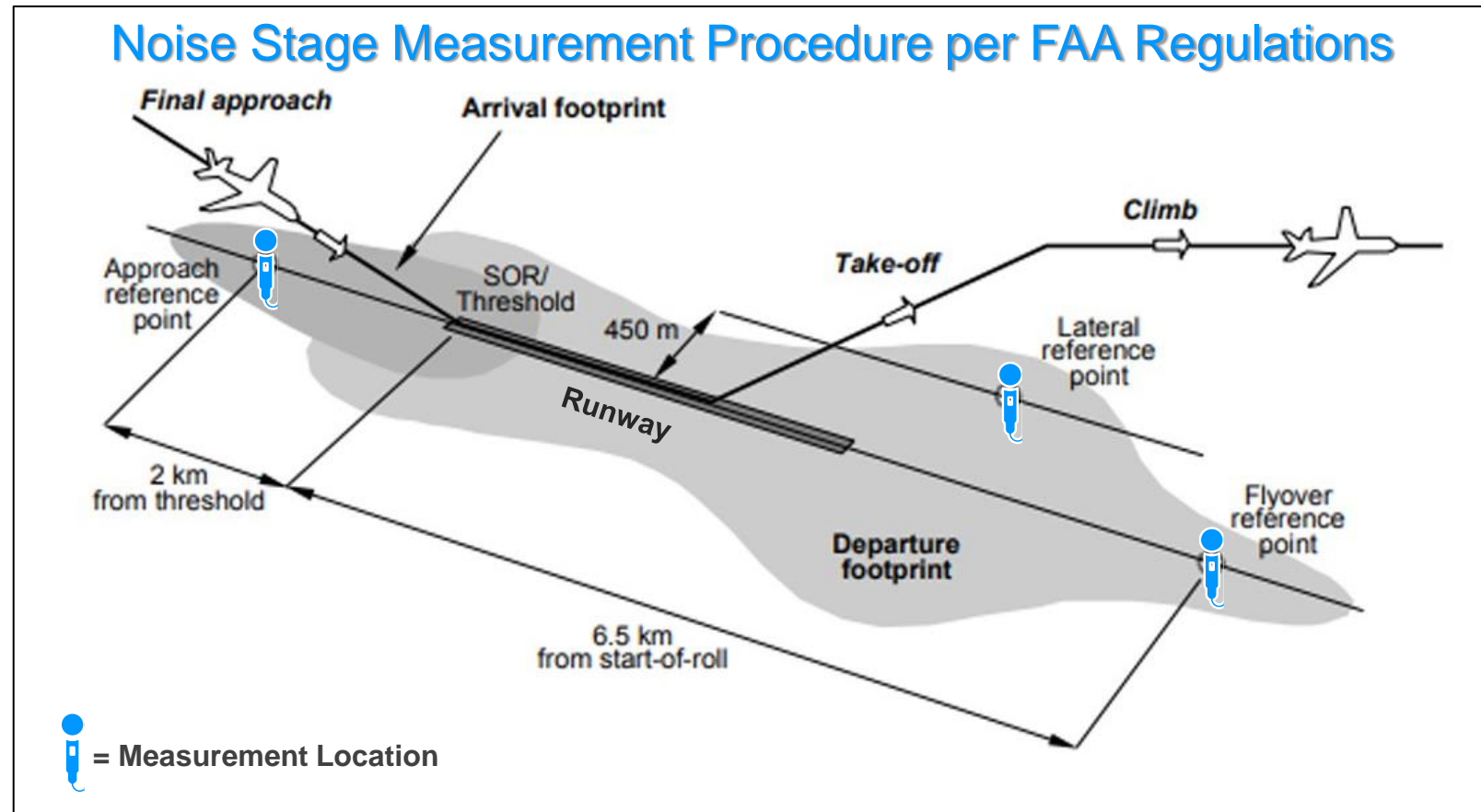
A Database has been developed using ANOMS data to categorize airlines and determine scores based on airline fleet mix (i.e., Noise Stage data).

Top Tiers will be recognized in the FQP Annual Report:

- ✓ Awarded in each airline category (Air Carrier, Regional, Int'l., Cargo)
- ✓ Scored on a scale of 0 to 100

Fleet Noise Quality Scores

- Weighted average of an airline's operations and the certificated "Noise Stage" of each aircraft
- Noise Stage measurements are approved by FAA when a new aircraft model is certified for use
- Measurement conditions are in a controlled testing environment
- The noise level data are published by the FAA, and are used in the FQP score calculations



Source: FAA Regulations 14 CFR Part 36

Airline Scoring Details

Scoring Categories		Max. Points
Airline Fleet	Fleet Noise Quality: <ul style="list-style-type: none"> • Weighted average of an airline’s operations and the certificated “Noise Stage” of each aircraft • For airlines with minimum of 365 operations per year (operation is one arrival or one departure) 	50
Engagement	Participate in FQP Focus Group annual virtual briefing(s) – includes 2022 and 2023	10
	Participate in Roundtable Meetings (for JFK and LGA only) <ul style="list-style-type: none"> • Up to four meetings per year, 2.5 points per meeting, 10 points maximum 	10
	Access and review the FQP Dashboard Reporting site once per quarter <ul style="list-style-type: none"> • Tracked four times per year, 2.5 points per login, 10 points maximum 	10
	Provide copies of pilot training/educational materials on noise abatement and Fly Quiet along with the date(s) training was conducted	10
	Provide information/documentation on airline fleet noise reductions (vortex generators, etc. installed on the aircraft; pilot operating techniques; NADP; etc.)	5
	Provide information/documentation on any annual airline sustainability practices/offsets/etc.	5
Total:		100

Airport-wide Statistics for Annual FQP Report

- Provide statistics on noise and operations that are reported airport-wide *(not a part of an airline's score)*
 - Airport-wide fleet mix by Noise Stage
 - Runway use including late-night hours
 - Flight procedure use
- Recognizes the FAA's participation and role in runway selection and flight procedure selection

Annual Report

PANYNJ Fly Quiet Programs



2022 Annual Report

- Separate report for each airport (JFK, LGA, EWR)
- Based on annual data for Calendar Year 2022
- Brief, 10-page summary of Airline Awards and metrics
- Graphical, easy-to-read format

FQP Reports were released in February on the PANYNJ website



Fly Quiet Program









Annual Report

2022



**CONGRATULATIONS TO THE WINNERS
OF THE LGA FLY QUIET AWARDS**

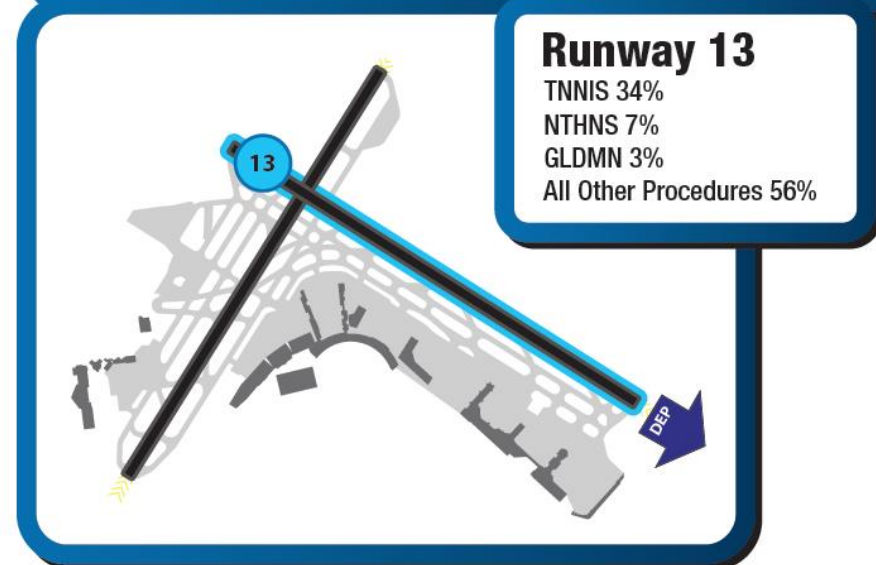
2022

	GOLD TIER	SILVER TIER
		
DOMESTIC MAJOR AIR CARRIER	GOLD TIER WAS NOT AVAILABLE FOR THE YEAR 2022.	     
INTERNATIONAL AIR CARRIER	GOLD TIER WAS NOT AVAILABLE FOR THE YEAR 2022.	NONE
REGIONAL AIR CARRIER	GOLD TIER WAS NOT AVAILABLE FOR THE YEAR 2022.	NONE

**Gold Tier was not available because the program was still under development and not all of the engagement points categories from the previous page were available to be earned (i.e., roundtable meeting participation and dashboard reports).*

Flight Procedure Use

- Annual percentage use of each departure procedure from Runway 13
- Use of each satellite-based navigation flight procedure for Runway 13
 - TNNIS, GLDMN, and NTHNS
- All Other Procedures includes the Whitestone climb and flights that are vectored by air traffic control instead of following satellite-based procedures
- *This is not included in airline scores*



Next Steps

- PANYNJ released 2022 FQP Reports in February 2024
 - Website posting, roundtable briefing, airline focus group meeting
- Plan to release 2023 FQP Reports in April 2024
 - Website posting, roundtable briefing, airline focus group meeting
- Future years – release Annual Reports in April of the following year

Discussion

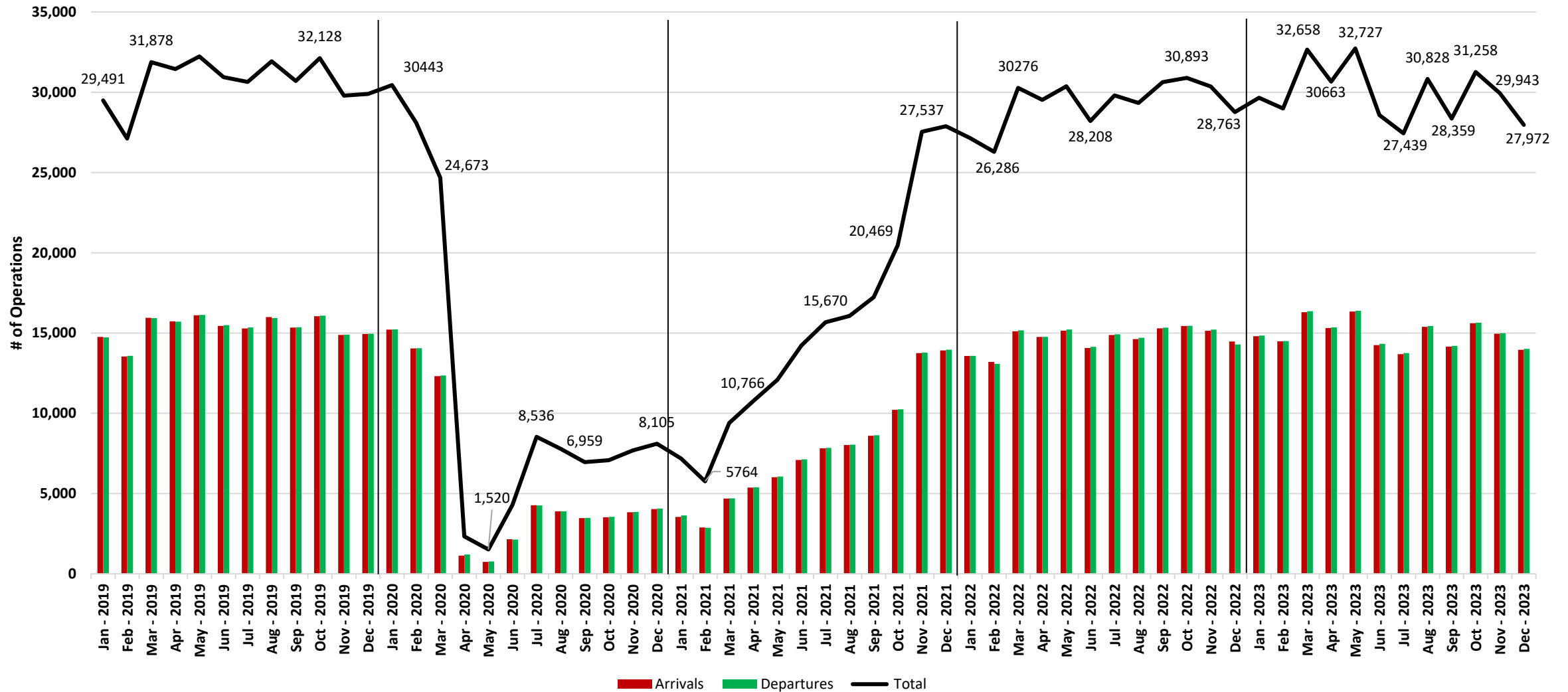


LaGuardia Airport (LGA) Operations and Complaints

March 27, 2024

JFK 2019 to 2023 Operations Overview

All Arrivals and Departures: Jan 2019 to August 2023



Factors in Runway Selection

Runway Selection is determined by FAA based on the following criteria (in order of decreasing priority):

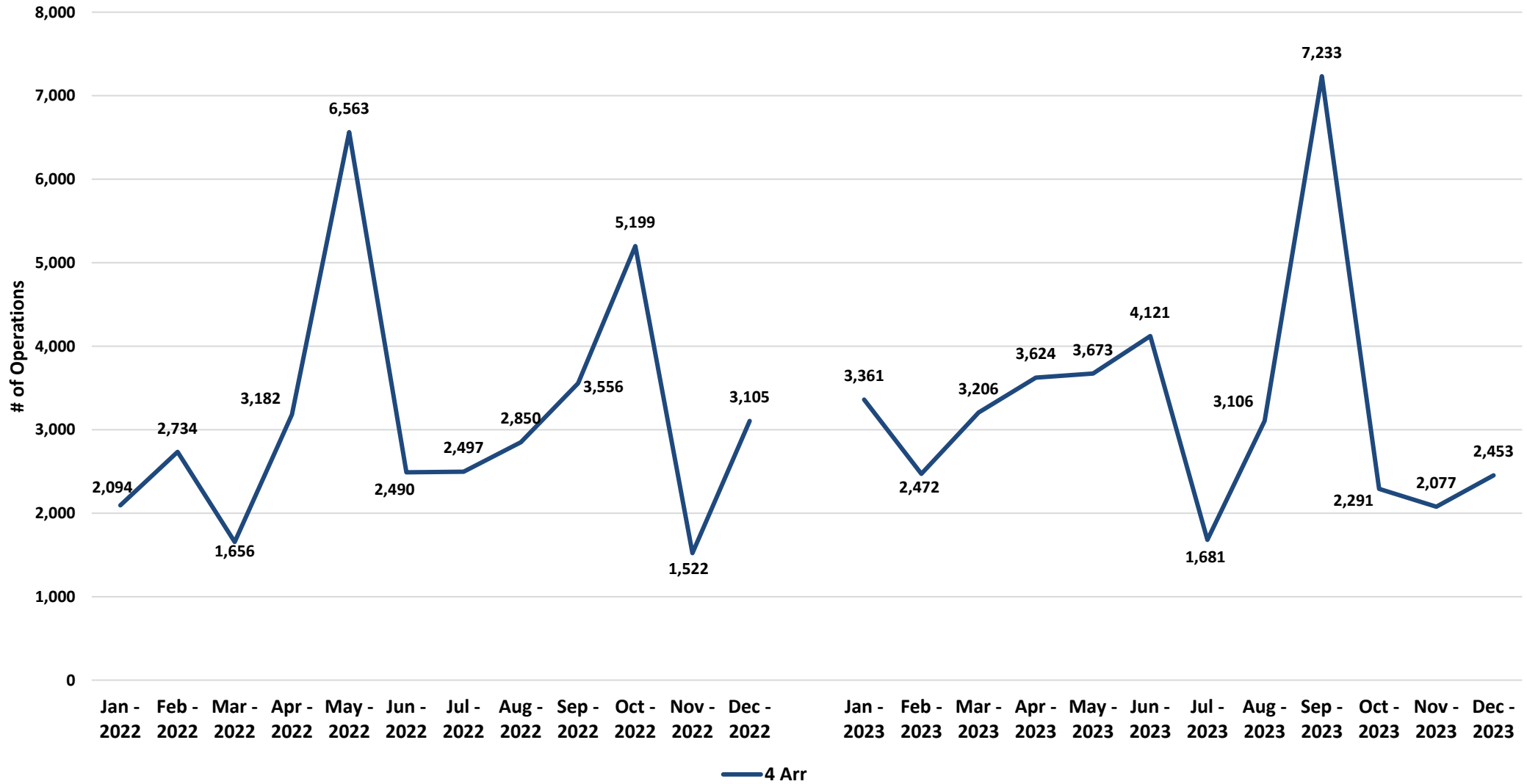
- Runway availability
- Prevailing wind and weather patterns
- Operational efficiency
- Community noise concerns

Flying into the wind provides the greatest margin of safety when landing or departing at any airport

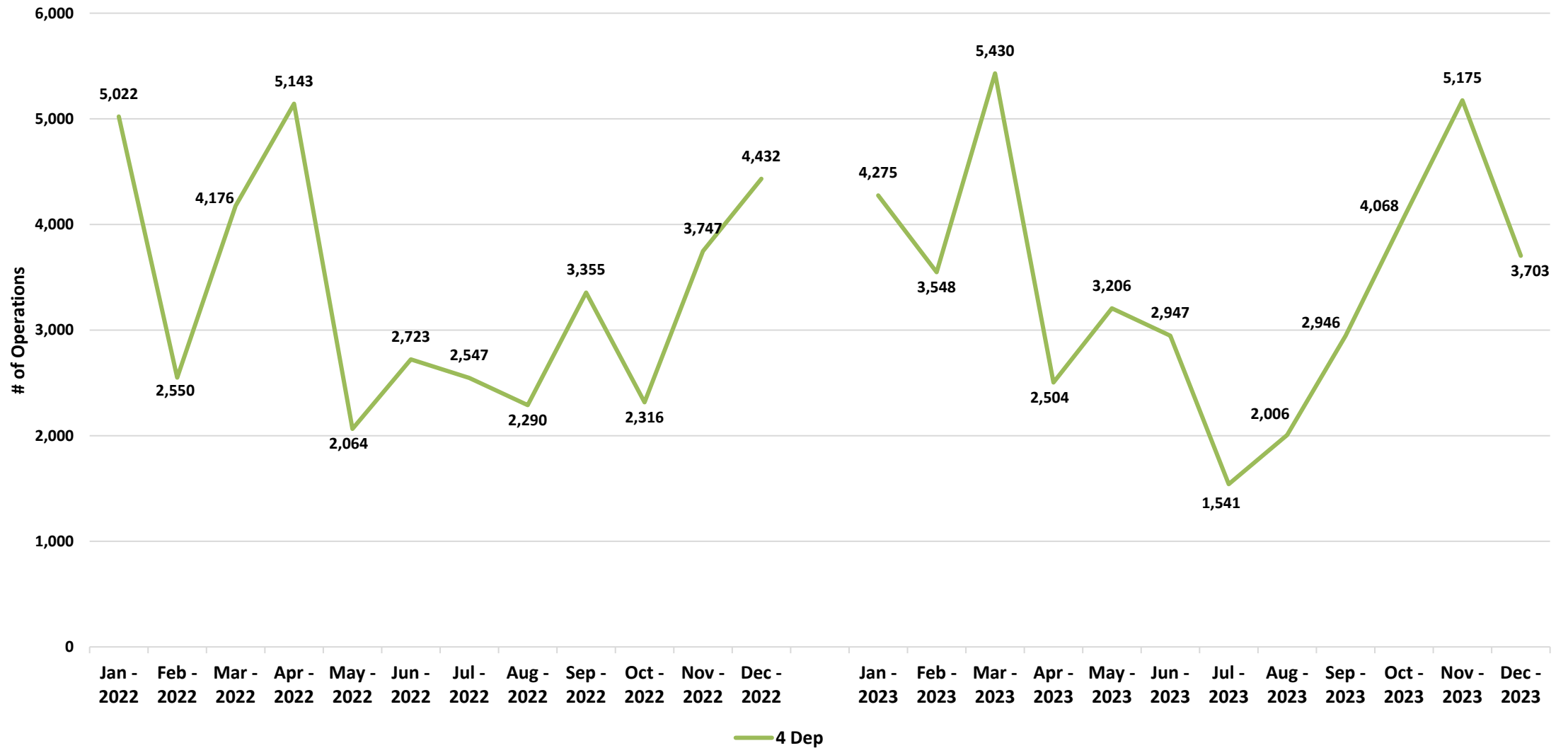
Operations By Runway for Past 13 Months

Month	Total Operations	4 Arr	4 Dep	13 Arr	13 Dep	22 Arr	22 Dep	31 Arr	31 Dep	Unk Arr	Unk Dep
Dec - 2022	28,763	3,105	4,432	3	5,501	6,813	102	4,544	4,247	10	6
Jan - 2023	29,655	3,361	4,275	154	5,017	7,690	167	3,595	5,375	8	13
Feb - 2023	28,989	2,472	3,548	0	5,968	8,548	212	3,464	4,763	2	12
Mar - 2023	32,658	3,206	5,430	11	6,379	7,450	6	5,628	4,529	3	16
Apr - 2023	30,663	3,624	2,504	400	8,119	9,284	100	2,002	4,616	2	12
May - 2023	32,727	3,673	3,206	1	8,588	9,182	4	3,483	4,575	4	11
Jun - 2023	28,578	4,121	2,947	5	8,388	7,368	10	2,752	2,969	5	13
Jul - 2023	27,439	1,681	1,541	21	8,556	10,294	157	1,687	3,487	5	10
Aug - 2023	30,828	3,106	2,006	180	8,891	9,297	84	2,807	4,453	0	4
Sep - 2023	28,359	7,233	2,946	2	8,464	4,102	122	2,817	2,661	1	11
Oct - 2023	31,258	2,291	4,068	0	7,472	8,710	11	4,606	4,085	4	11
Nov - 2023	29,943	2,077	5,175	64	4,508	7,493	5	5,319	5,290	1	11
Dec - 2023	27,972	2,453	3,703	153	5,616	7,462	324	3,884	4,365	5	7

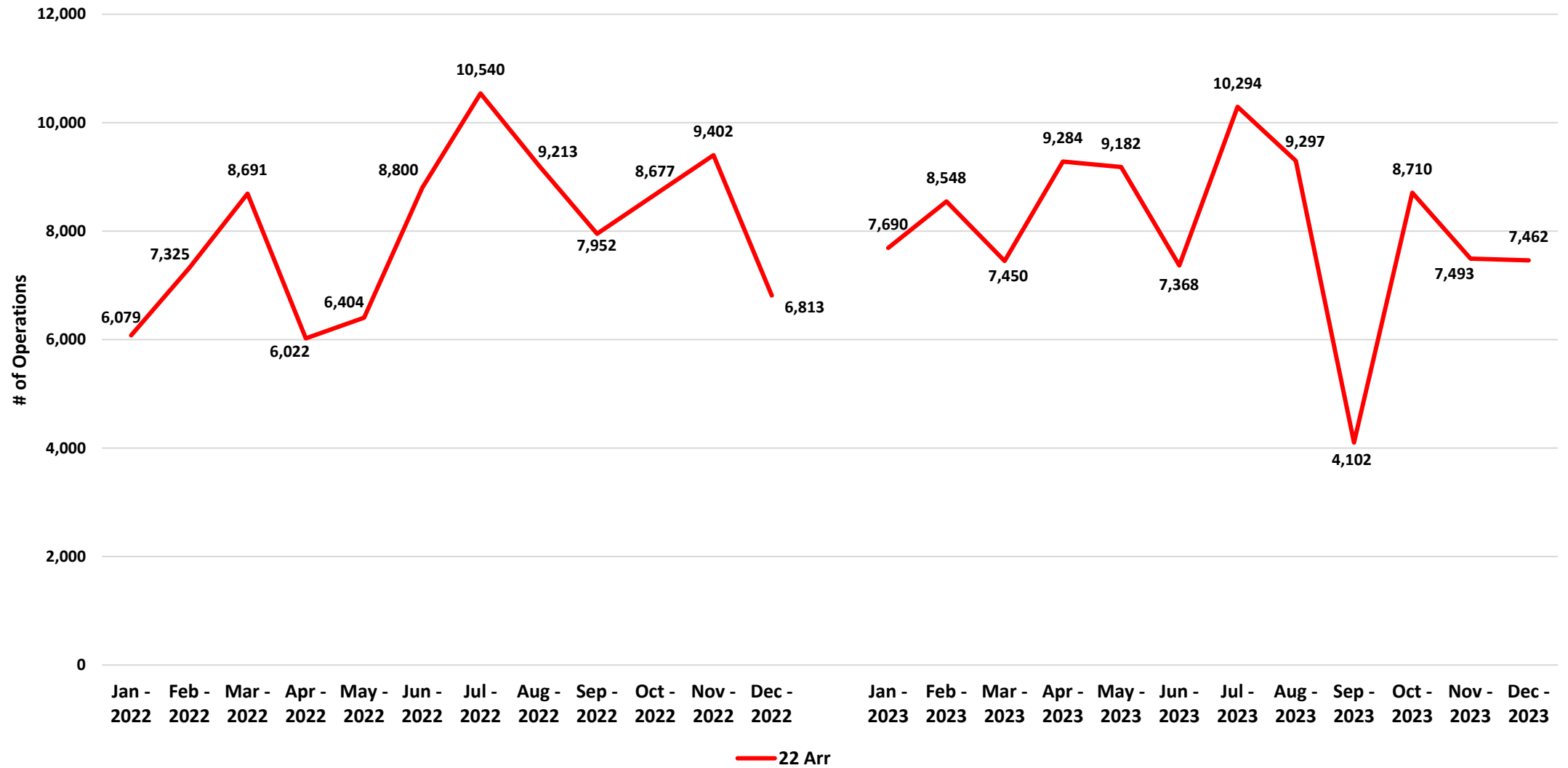
Runway 4 Arrivals Comparison – 2022 to 2023



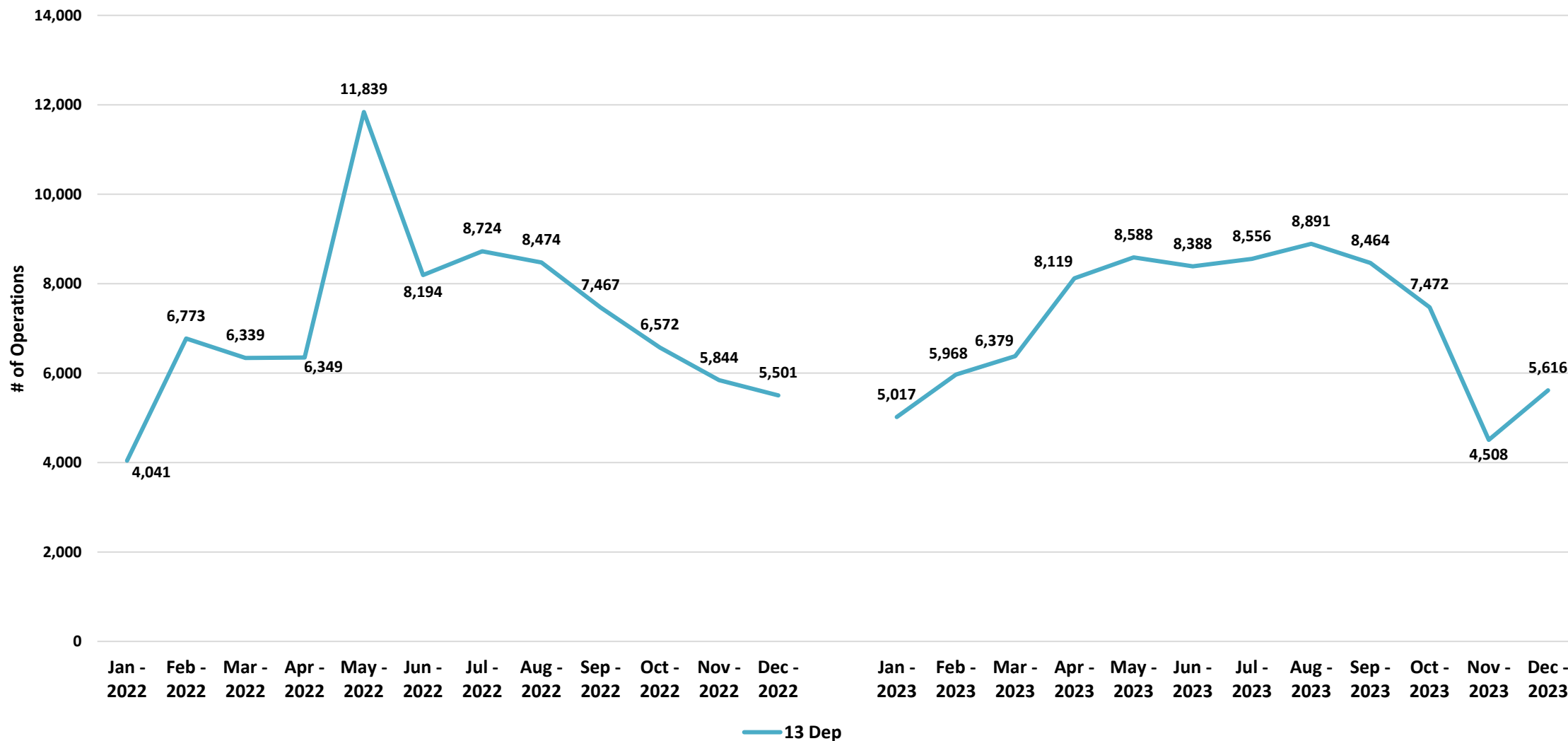
Runway 4 Departure Comparison – 2022 to 2023



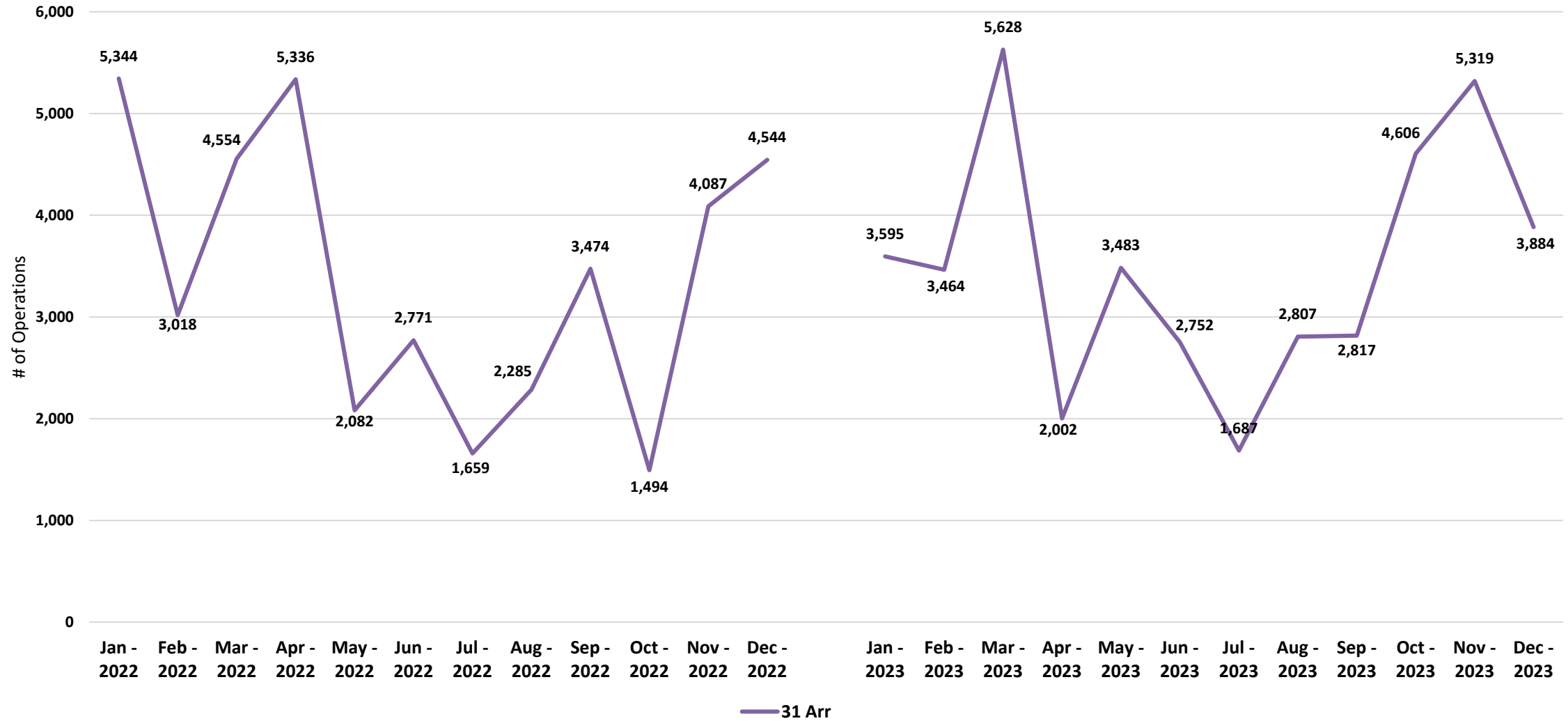
Runway 22 Arrival Comparison – 2022 to 2023



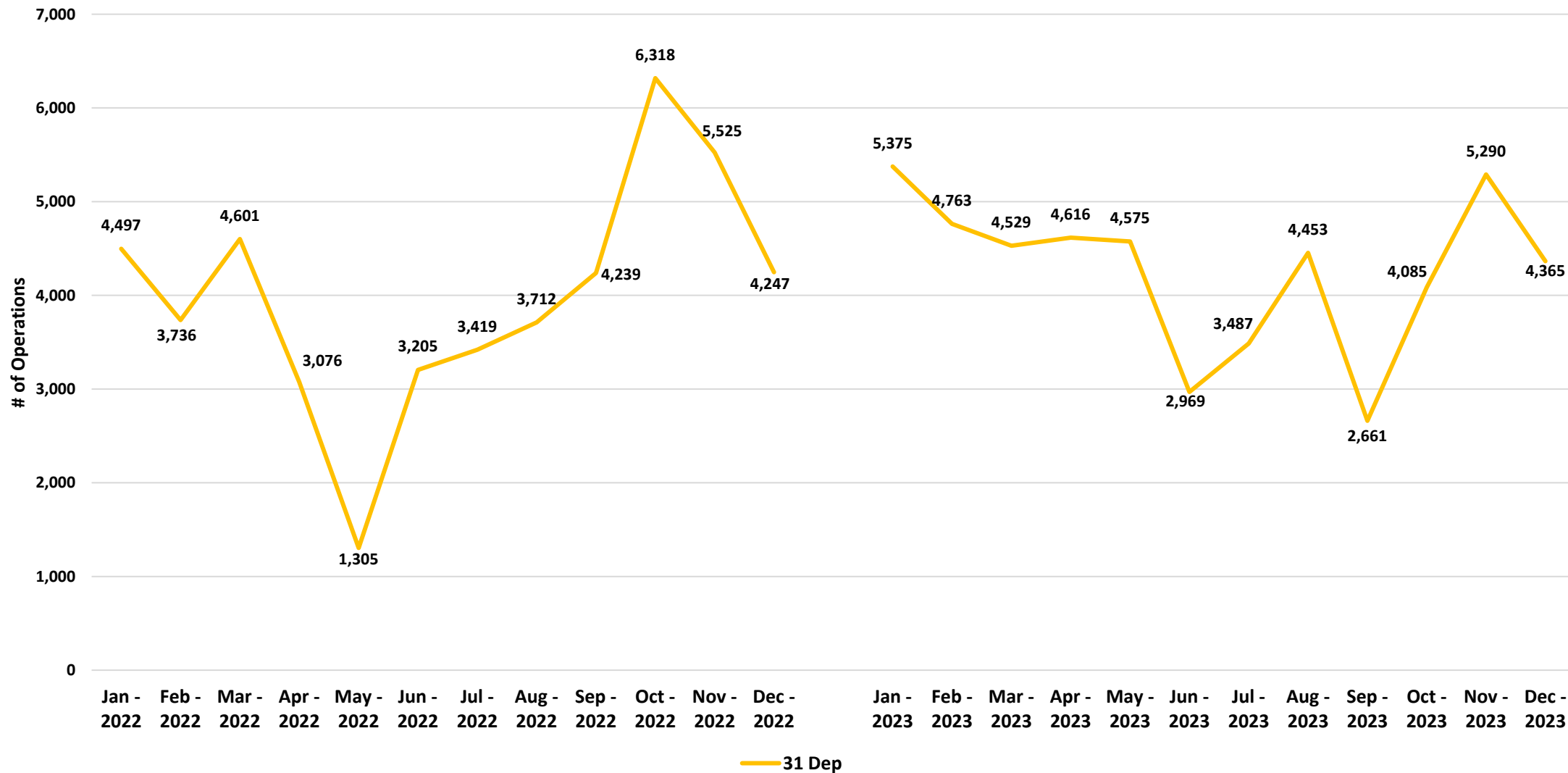
Runway 13 Departure Comparison – 2022 to 2023



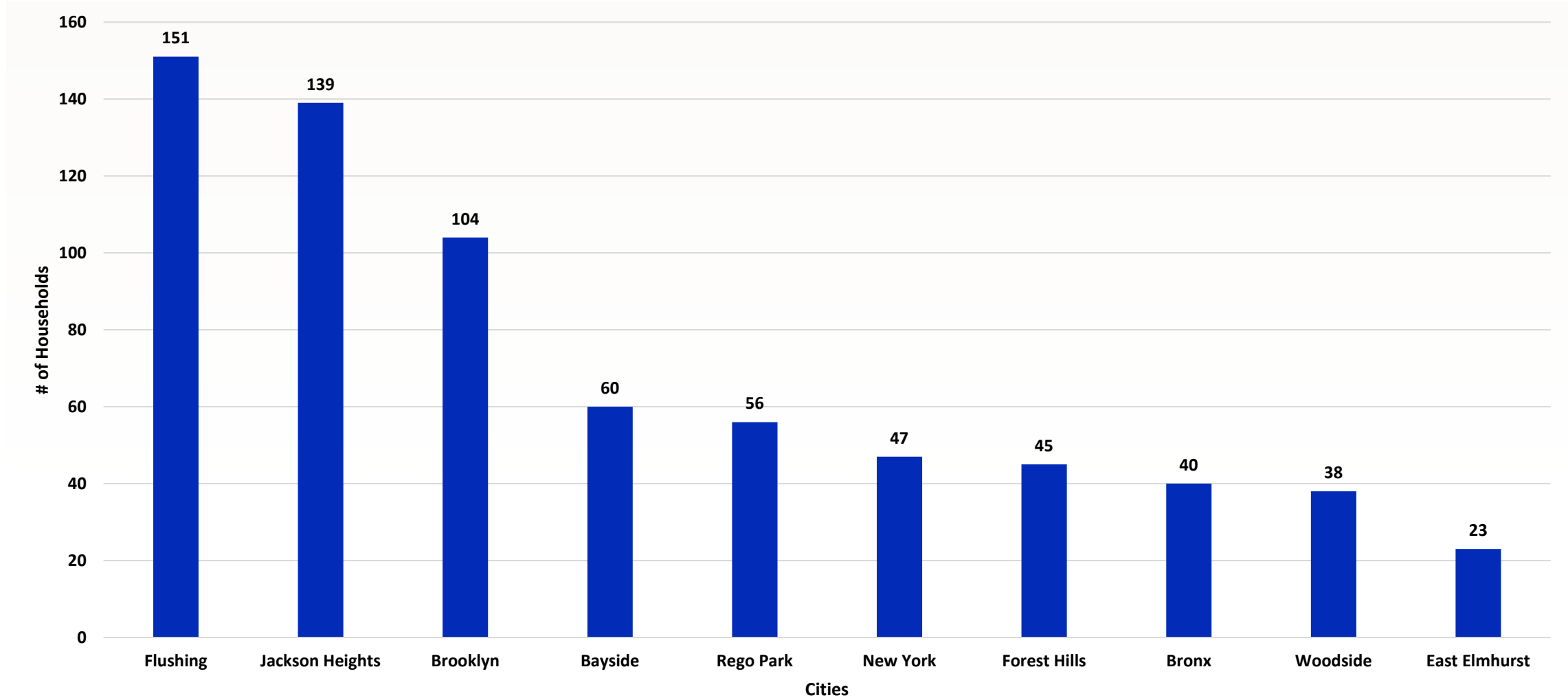
Runway 31 Arrival Comparison – 2022 to 2023



Runway 31 Departures Comparison – 2022 to 2023

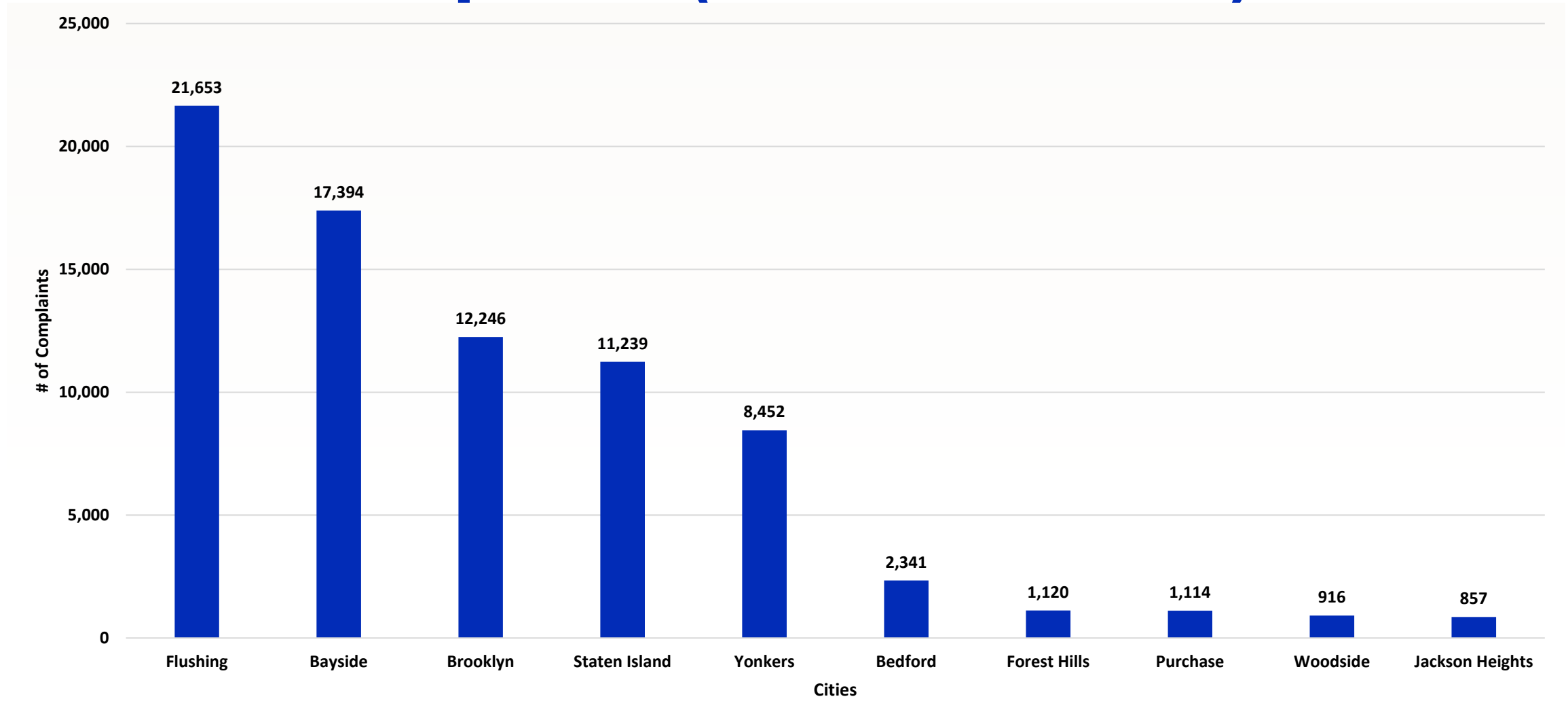


Geographical Distribution of Noise Complaints – Number of Households (Jan to Dec 2023)



Top 10 Locations

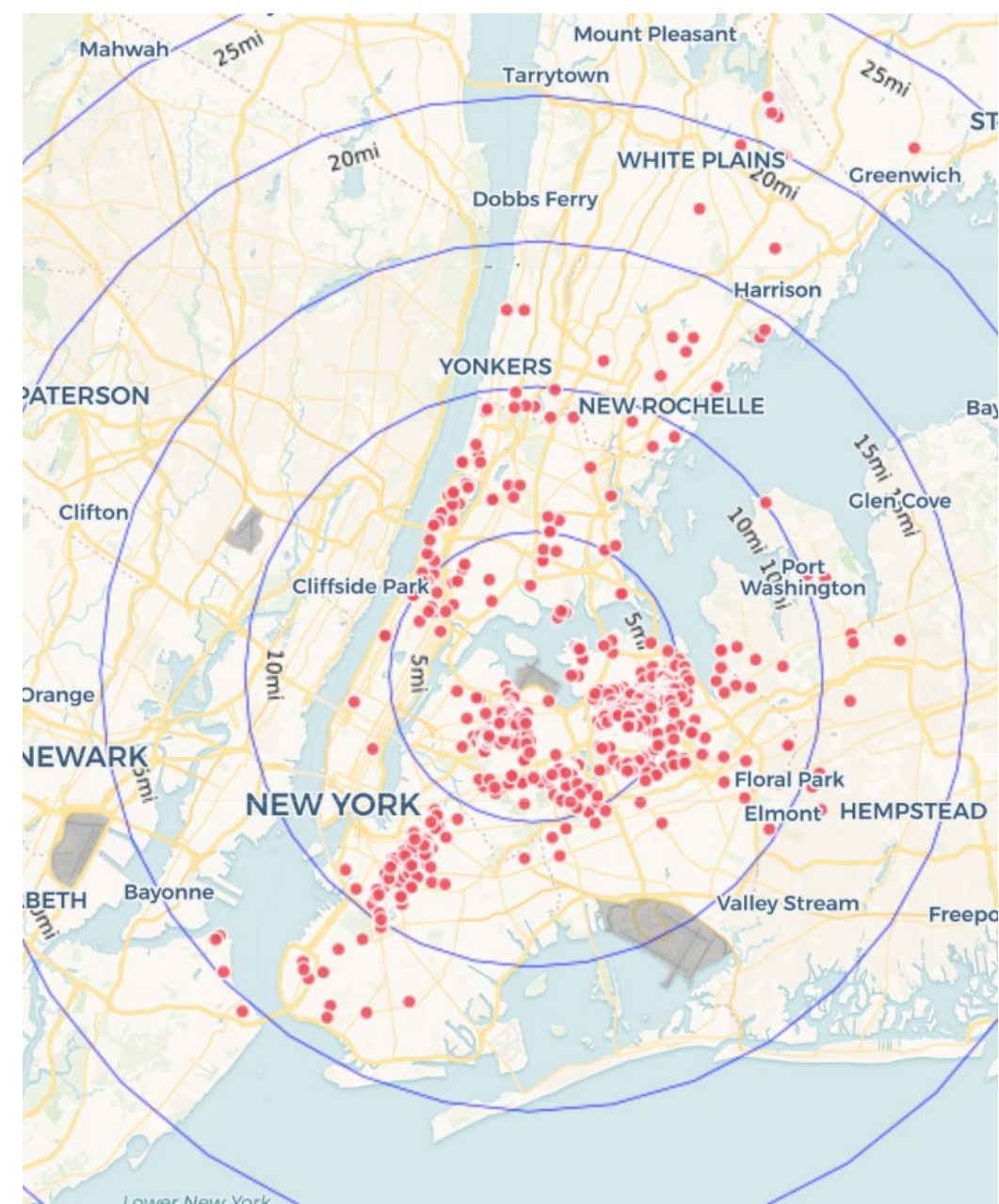
Geographical Distribution of Noise Complaints – Number of complaints (Jan to Dec 2023)



Top 10 Locations

Geographical Distribution of Noise Complaints by Households (Jan to Dec 2023)

- Showing all complaints collected via Port Authority Webform, Hotline, and 3rd party app
- Total of 856 household locations



Helpful Links

- PA Aircraft Noise webpage <https://aircraftnoise.panynj.gov/>
- Webtrak [htt](https://webtrak.emsbk.com/panynj4)
- [ps://webtrak.emsbk.com/panynj4](https://webtrak.emsbk.com/panynj4)
- Submit a noise complaint <https://aircraftnoise.panynj.gov/submit-a-noise-complaint/>
- Monthly Reports <https://aircraftnoise.panynj.gov/reports/>
- Noise information and FAQs <https://aircraftnoise.panynj.gov/faqs/>
- Fly Quiet Program <https://aircraftnoise.panynj.gov/fly-quiet-program/>

Thank You