



Teterboro Aircraft Noise Abatement Advisory Committee

Three Quarter Year (January – September) 2022 Report

Gabriel Andino

Manager

Noise Abatement &
Environmental Compliance

Michael Fiscus

Asst. Manager

Noise Abatement &
Environmental Compliance

Matthew Reese

Specialist

Noise Abatement &
Environmental Compliance

Teterboro

Aircraft

Noise

Abatement

Advisory

Committee

- **Introduction**
- **Operations Update**
- **FAA Briefing**
 - Ms. Mary McCarthy - FAA NYAPIO Director
- **Statistical Report: January - September 2022**
 - Aircraft Activity
 - RNAV GPS (X) Utilization
 - Aircraft Noise Violations
 - Noise Readings
 - Noise Complaints
- **Discussion Items**
 - 14 CFR Part 150 Study Update
 - Woodcliff Lake Portable Noise Monitor
 - TANAAC Membership
- **Committee Comments / Questions**
- **Adjournment**

October 26, 2022

Operations Update

[Runway 6/24 Rehabilitation: 2022-2023](#)

Hours of Work / Staging

- Runway 6/24 Overnight Closures (April 2022 thru April 2023):
 - Sunday, Tuesday, Wednesday, and Thursday – 10:30p.m. to 6:30a.m. the following morning
 - Monday 10:30p.m. to 8:30a.m. Tuesday
- Runway 6/24 weekend Closures

[New Teterboro Airport Air Traffic Control Tower](#)

FAA Briefing

FAA Teterboro Airport Community Engagement Video

<https://www.youtube.com/watch?v=aABkyislONU>

Ms. Mary McCarthy, FAA NYAPIO Director



Airport Noise & Capacity Act

Part 161

Presented to: TANAAC
By: Mary McCarthy
Date: October 26, 2022



Federal Aviation
Administration



References

- The Airport Noise and Capacity Act, [49 U.S.C. § 49751, *et seq.*] establishes the process for an Airport Sponsor to propose access restrictions.
- Part 161 [14 CFR part 161] contains the regulations that implement the Airport Noise and Capacity Act.
- *Friends of East Hampton Airport v. Town of East Hampton*, 841 F.3d 113 (2d Cir. 2016)
- *City of Naples Airport Auth v. FAA*, 404 F.3d 431 (D.C. Cir.2005)
- Part 161 Determinations can be found at:
https://www.faa.gov/airports/environmental/airport_noise/part161



Airport Activity Report

January – September

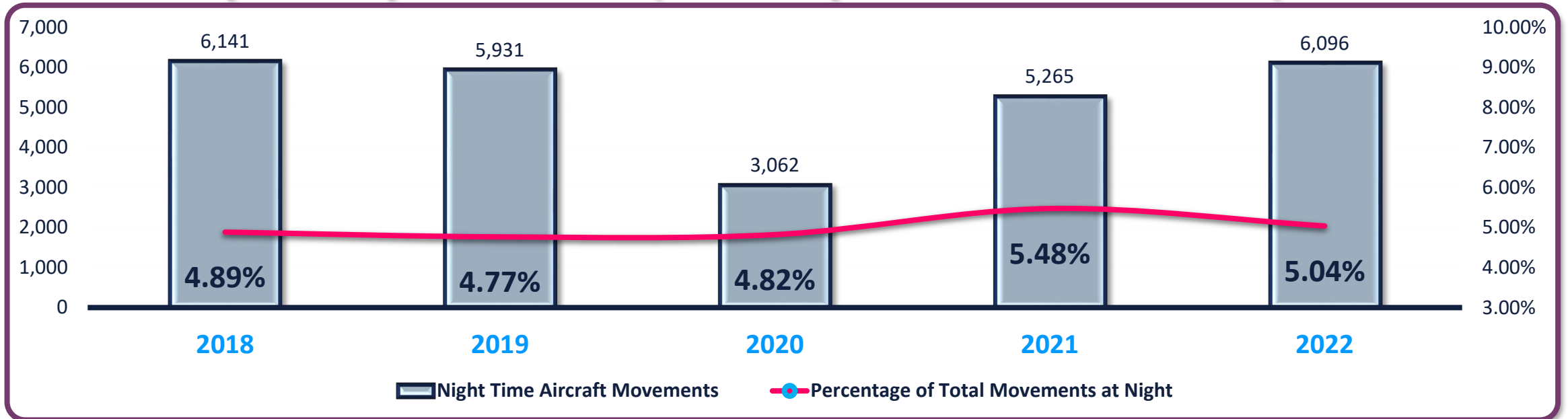


Movements	2018	2019	2020	2021	2022	2019/2020	2020/2021	2021/2022	2019/2022
Props	3,562	3,887	2,883	3,457	3,654	-25.83%	19.91%	5.70%	-5.99%
Turbo-Props	10,688	10,638	5,429	7,966	10,132	-48.97%	46.73%	27.19%	-4.76%
Helicopters	6,213	5,959	2,045	2,668	3,924	-65.68%	30.46%	47.08%	-34.15%
Jets	104,717	103,342	52,944	81,737	98,012	-48.77%	54.38%	25.76%	-0.53%
Totals:	125,672	124,414	63,487	96,128	116,118	-48.97%	51.41%	25.77%	-2.83%

❖ Total Aircraft Movements are Inclusive of Missed Approaches and Aborted Take-Offs.

Airport Activity Report

January – September (11:00p.m. – 6:00a.m.)

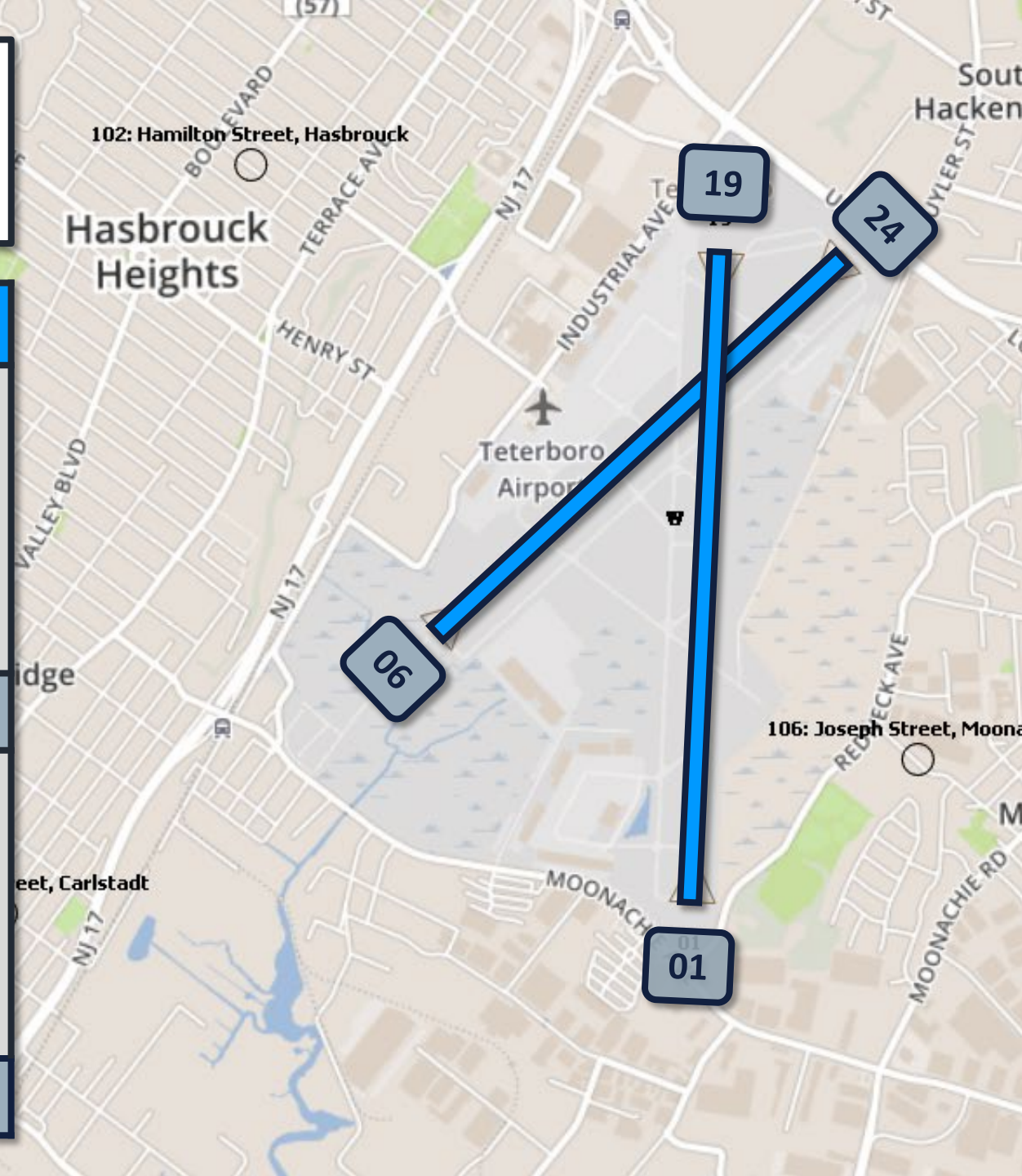


Year	Nighttime Aircraft Movements	Total Aircraft Movements	% of Total Movements at Night
2018	6,141	125,672	4.89%
2019	5,931	124,414	4.77%
2020	3,062	63,487	4.82%
2021	5,265	96,128	5.48%
2022	6,096	120,897	5.04%

Runway Utilization

January – September 2022

		Arrivals		Departures	
Runways	1	5,456	9.18%	18,780	32.60%
	19	33,724	56.77%	2,817	4.89%
	6	14,234	23.96%	1,450	2.52%
	24	5,995	10.09%	34,553	59.99%
		59,409		57,600	
Helicopter Routes	N	137	6.51%	129	6.94%
	E	204	9.69%	125	6.72%
	S	1,603	76.12%	1,508	81.12%
	W	162	7.69%	97	5.22%
		2,106		1,859	



RNAV (GPS) X Runway 19 Offset Approach Utilization

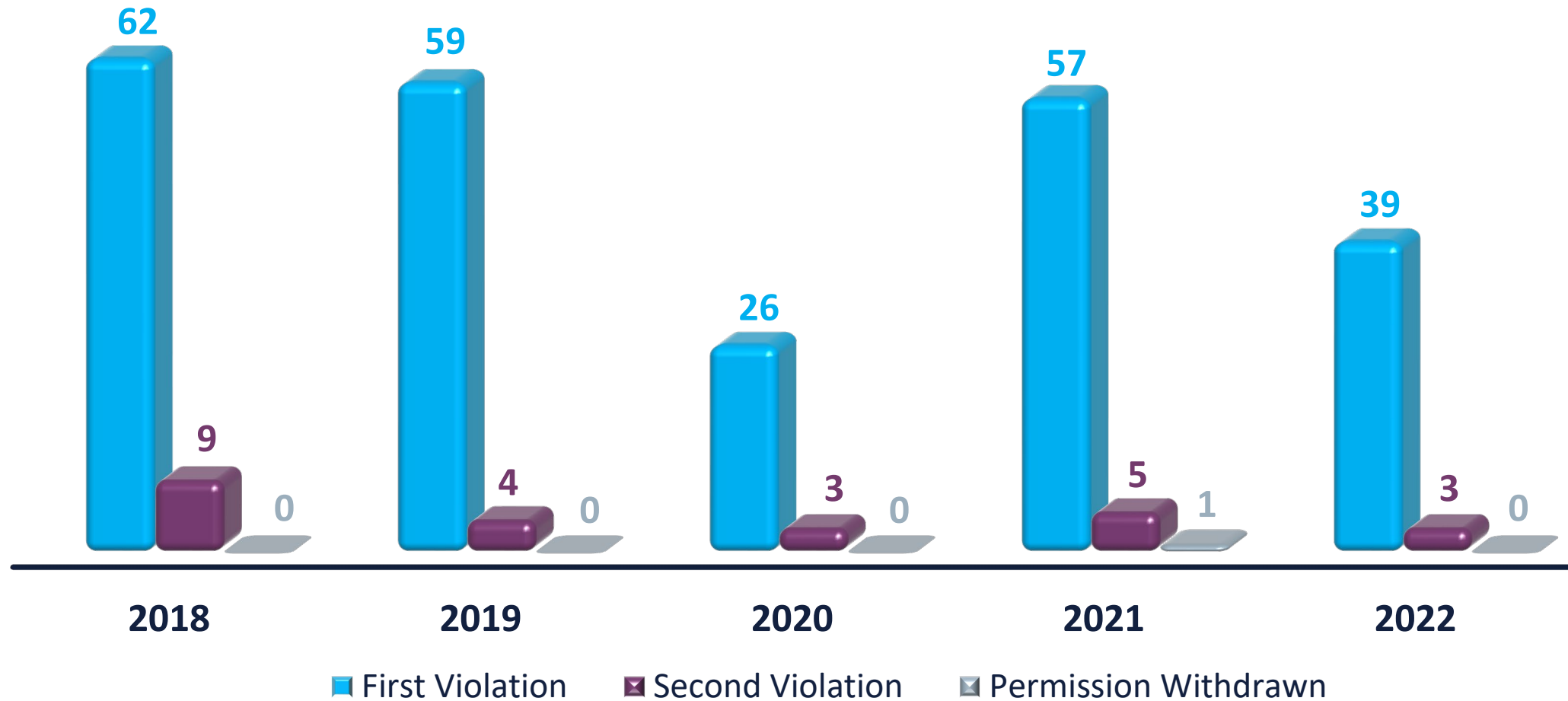
Runway 19 Arrivals: 24 Hours			
	Total Arrivals	RNAV (GPS) X Arrivals	% of RNAV (GPS) X Arrivals
3 rd Quarter 2021	12,734	120	0.94%
4 th Quarter 2021	13,104	21	0.16%
1 st Quarter 2022	8,965	79	0.88%
2 nd Quarter 2022	11,486	193	1.68%
3 rd Quarter 2022	11,686	443	3.79%

Runway 19 Arrivals: 10:00p.m. – 7:00a.m.			
	Total Arrivals	RNAV (GPS) X Arrivals	% of RNAV (GPS) X Arrivals
3 rd Quarter 2021	1,216	115	9.46%
4 th Quarter 2021	1,129	8	0.71%
1 st Quarter 2022	767	76	9.91%
2 nd Quarter 2022	1,203	181	15.05%
3 rd Quarter 2022	1,146	433	37.78%

Availability of the RNAV (GPS) X Runway 19 approach is dependent on several factors including weather, visibility, and air traffic volume.

Noise Violations

January - September



LDN(A)

January – Sept.

LDN(A) = Day/Night Average Aircraft Sound Level

RMS 102

Hamilton St.-Hasbrouck Hts.

2019	35.9
2021	36.5
2022	35.9
2021/2022:	-0.6
2019/2022:	0.0

RMS 103

Prospect Ave.-Hackensack

2019	61.4
2021	60.3
2022	61.1
2021/2022:	+0.8
2019/2022:	-0.3

RMS 104

Park St.-Hackensack

2019	52.4
2021	51.6
2022	51.9
2021/2022:	+0.3
2019/2022:	-0.5

RMS 105

Bogota High School-Bogota

2019	49.0
2021	47.4
2022	47.1
2021/2022:	-0.3
2019/2022:	-1.9

RMS 101

7th & Barry-Carlstadt

2019	57.7
2021	57.2
2022	57.1
2021/2022:	-0.1
2019/2022:	-0.6

RMS 106

Joseph St.-Moonachie

2019	50.8
2021	50.6
2022	51.6
2021/2022:	+1.0
2019/2022:	+0.8

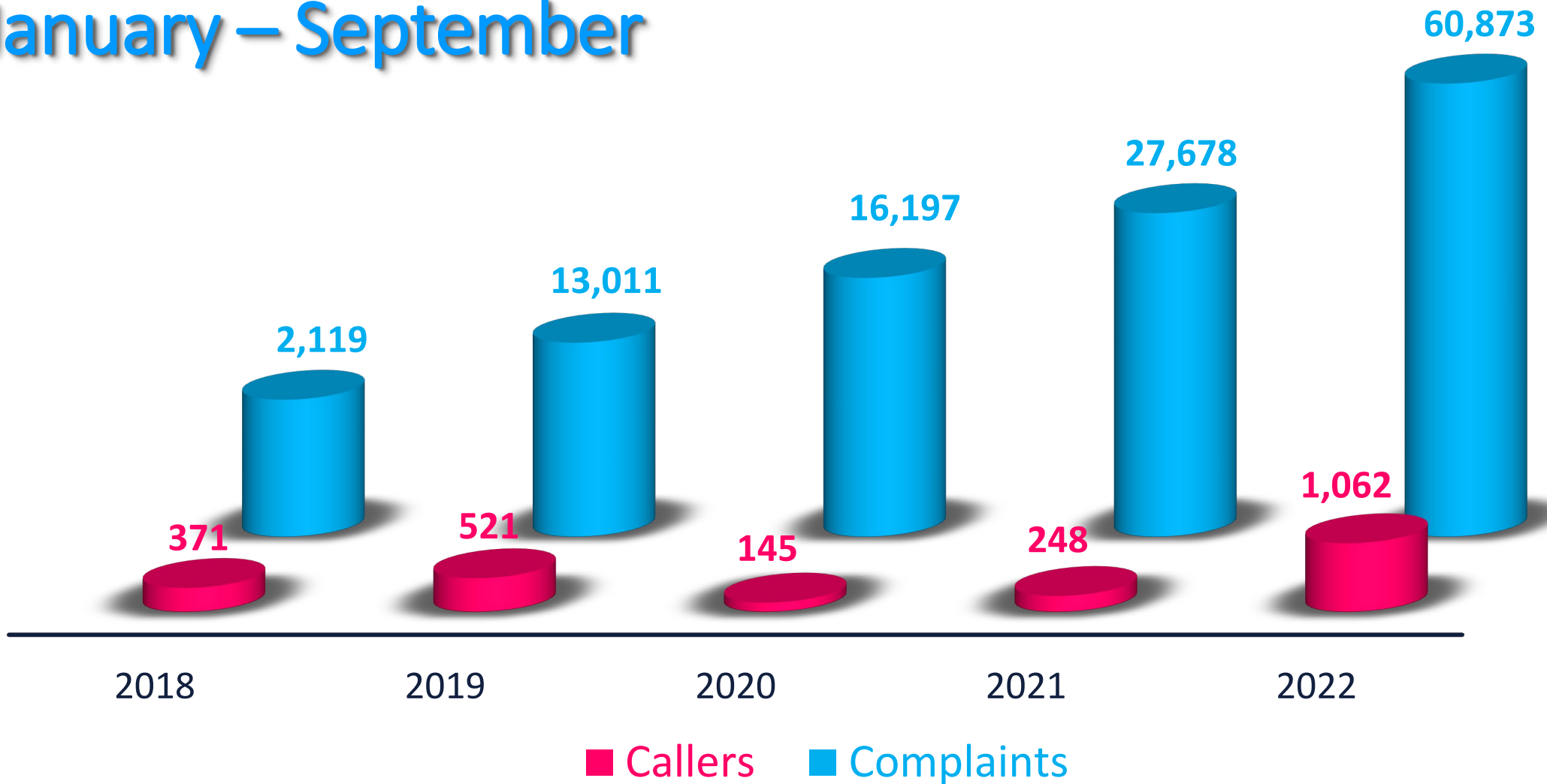
RMS 109

Pascack Road-Woodcliff Lake

Aug.-Sep.	45.9
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Noise Complaints

January – September

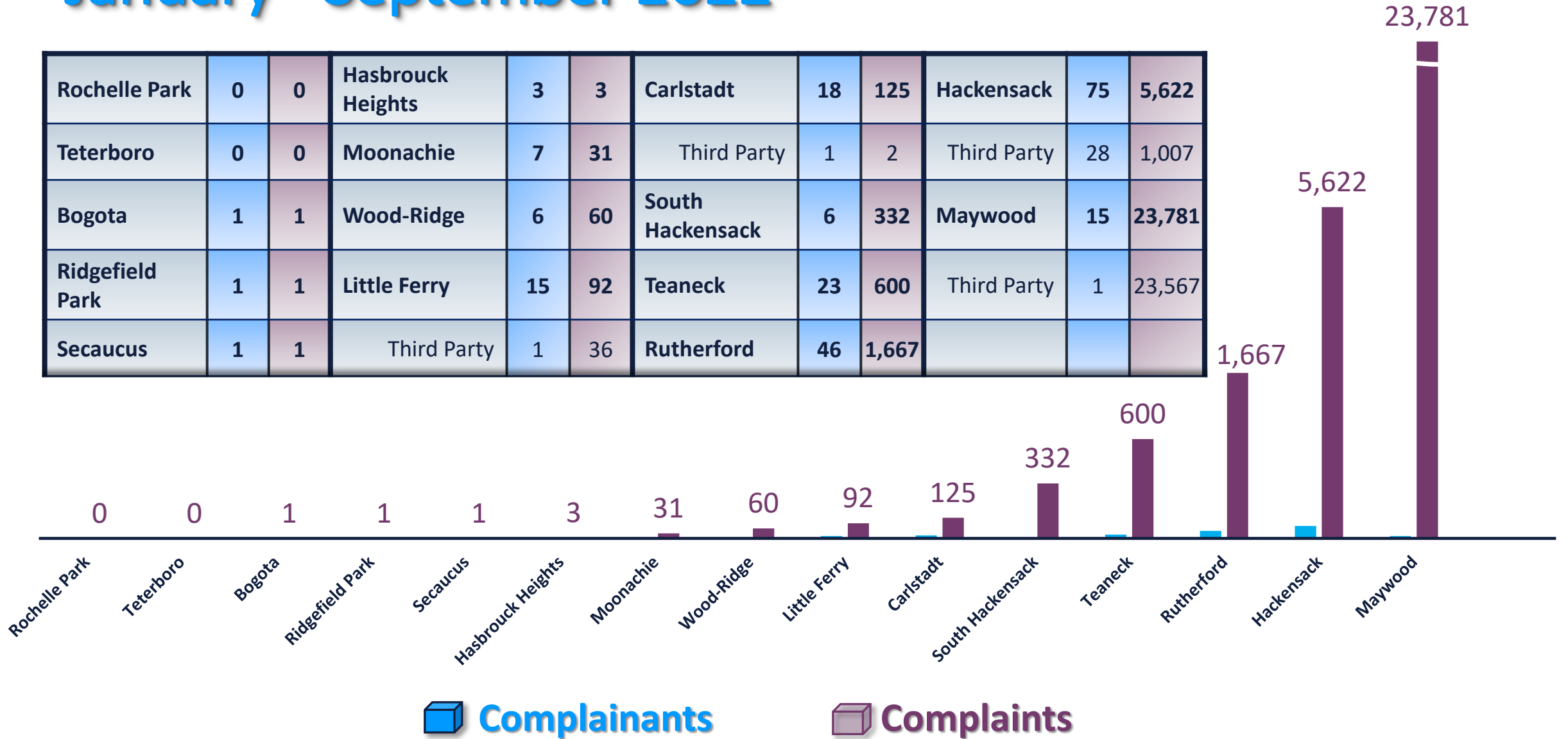


Third Party Applications Logged 27,912 Complaints from 55 Callers Between January and September.

Noise Complaints: TANAAC Members

January - September 2022

Rochelle Park	0	0	Hasbrouck Heights	3	3	Carlstadt	18	125	Hackensack	75	5,622
Teterboro	0	0	Moonachie	7	31	Third Party	1	2	Third Party	28	1,007
Bogota	1	1	Wood-Ridge	6	60	South Hackensack	6	332	Maywood	15	23,781
Ridgefield Park	1	1	Little Ferry	15	92	Teaneck	23	600	Third Party	1	23,567
Secaucus	1	1	Third Party	1	36	Rutherford	46	1,667			



Noise Complaints: Non-TANAAC - January-September 2022

Airmont	1	553	Franklin Lakes	2	9	New Windsor	1	1	Rivervale	1	1
Albertson	1	1	Third Party	1	7	Newark	9	8,901	Rockaway	1	3
Allendale	5	22	Glen Ridge	4	6	Newfoundland	3	7	Saddle River	9	185
Alpine	2	2	Harrington Park	13	21	North Haledon	1	4	Somerville	1	3
Bayonne	1	1	Harrison	2	11	Northport	1	2	South Salem	2	217
Belleville	1	2	Third Party	2	10	Northvale	3	3	Tenafly	76	1,024
Bergenfield	17	149	Haworth	4	4	Norwalk	1	1	Third Party	1	400
Bloomfield	2	9	Hawthorne	2	5	Norwood	46	107	Township of Washington	59	7,386
Branchburg	1	1	Hewitt	5	197	Nutley	6	13	Upper Montclair	1	1
Cedar Grove	1	1	Hillsdale	28	138	Old Tappan	1	1	Upper Saddle River	69	1,757
Closter	65	241	Islip	1	2	Paramus	15	244	Third Party	13	1,276
Commack	1	1	Kenilworth	1	1	Park Ridge	25	593	Waldwick	2	5
Cresskill	36	1,165	Lodi	2	3	Passaic	1	2	Warwick	1	3
Third Party	1	291	Lyndhurst	15	1,837	Pearl River	1	1	Third Party	1	3
Demarest	68	209	Mahwah	63	1,147	Purchase	3	54	Westfield	1	1
Dumont	1	1	Maplewood	3	4	Third Party	3	54	Westwood	34	233
East Rutherford	2	3	Metuchen	1	1	Ramsey	1	3	Whitestone	1	1
Emerson	18	290	Montclair	6	13	Ridgewood	1	1	Woodcliff Lake	44	1,378
Englewood	3	3	Montvale	11	33	Ringwood	1	1	Third Party	2	1,259
Flushing	1	1	New Toronto	2	2	River Vale	29	297	Wyckoff	2	32



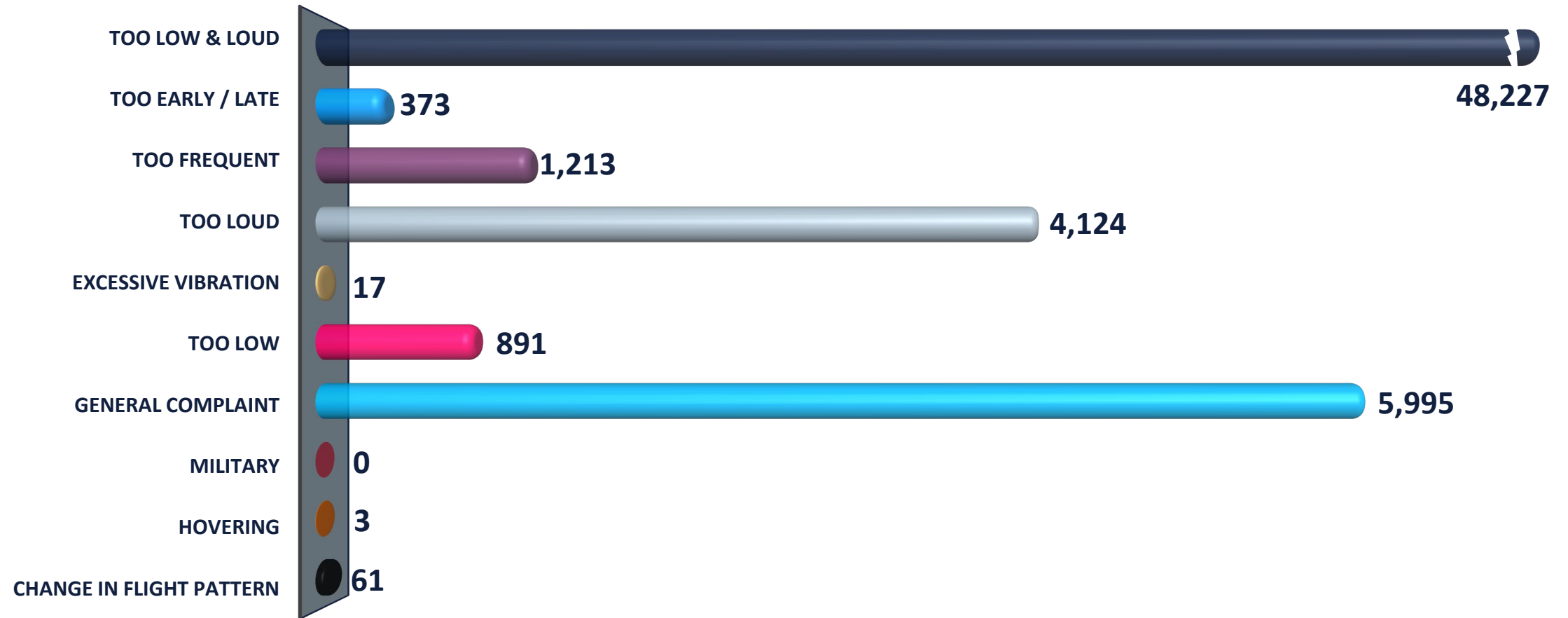
Complainants



Complaints

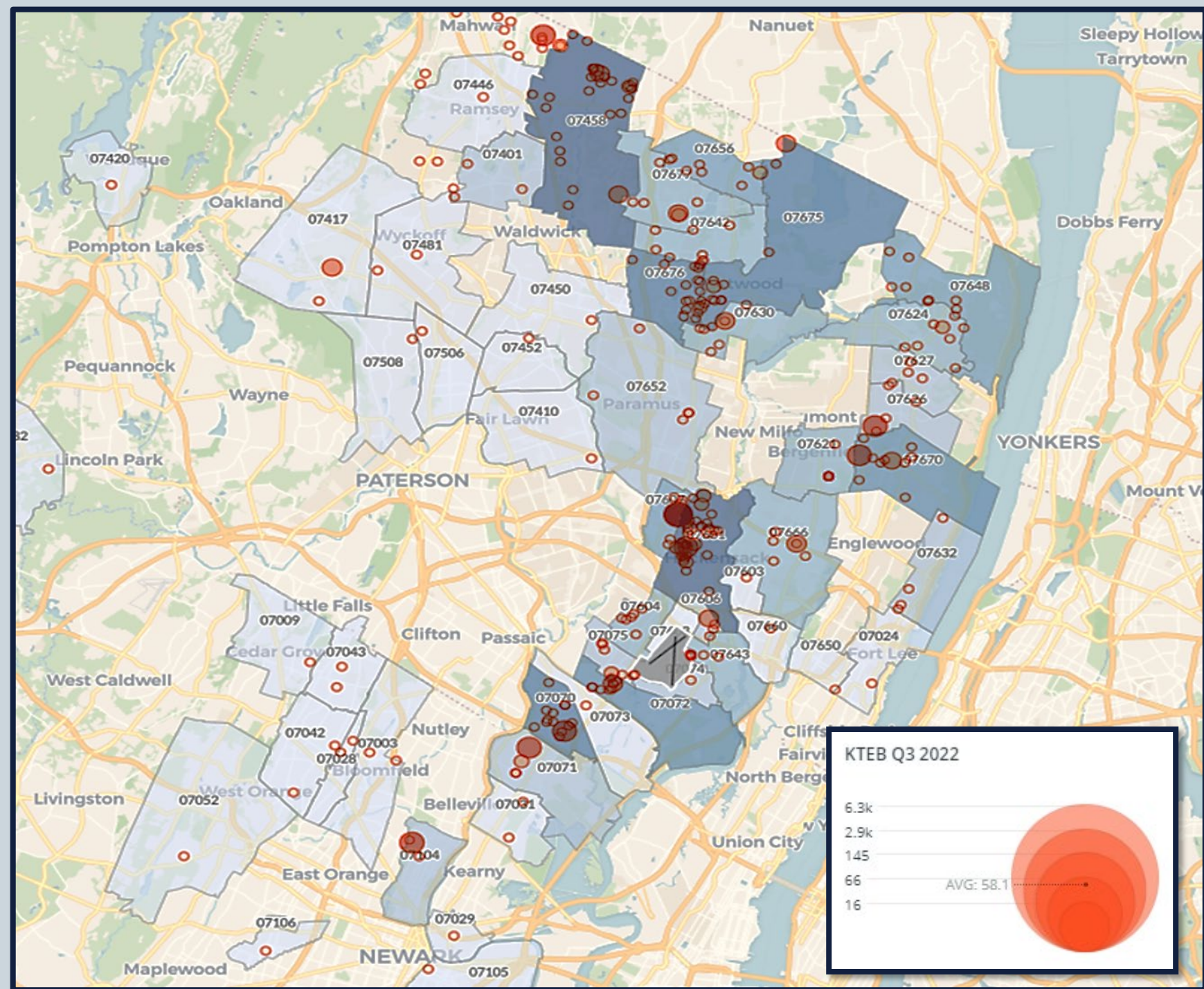
Noise Complaints: Nature of Disturbance

January – September 2022



Regional Complaints

3rd Quarter





Discussion Items

- **14 CFR Part 150 Study Update**
- **Woodcliff Lake Portable Noise Monitor**
- **TANAAC Membership**

TETERBORO AIRPORT PORTABLE NOISE MONITORING REPORT

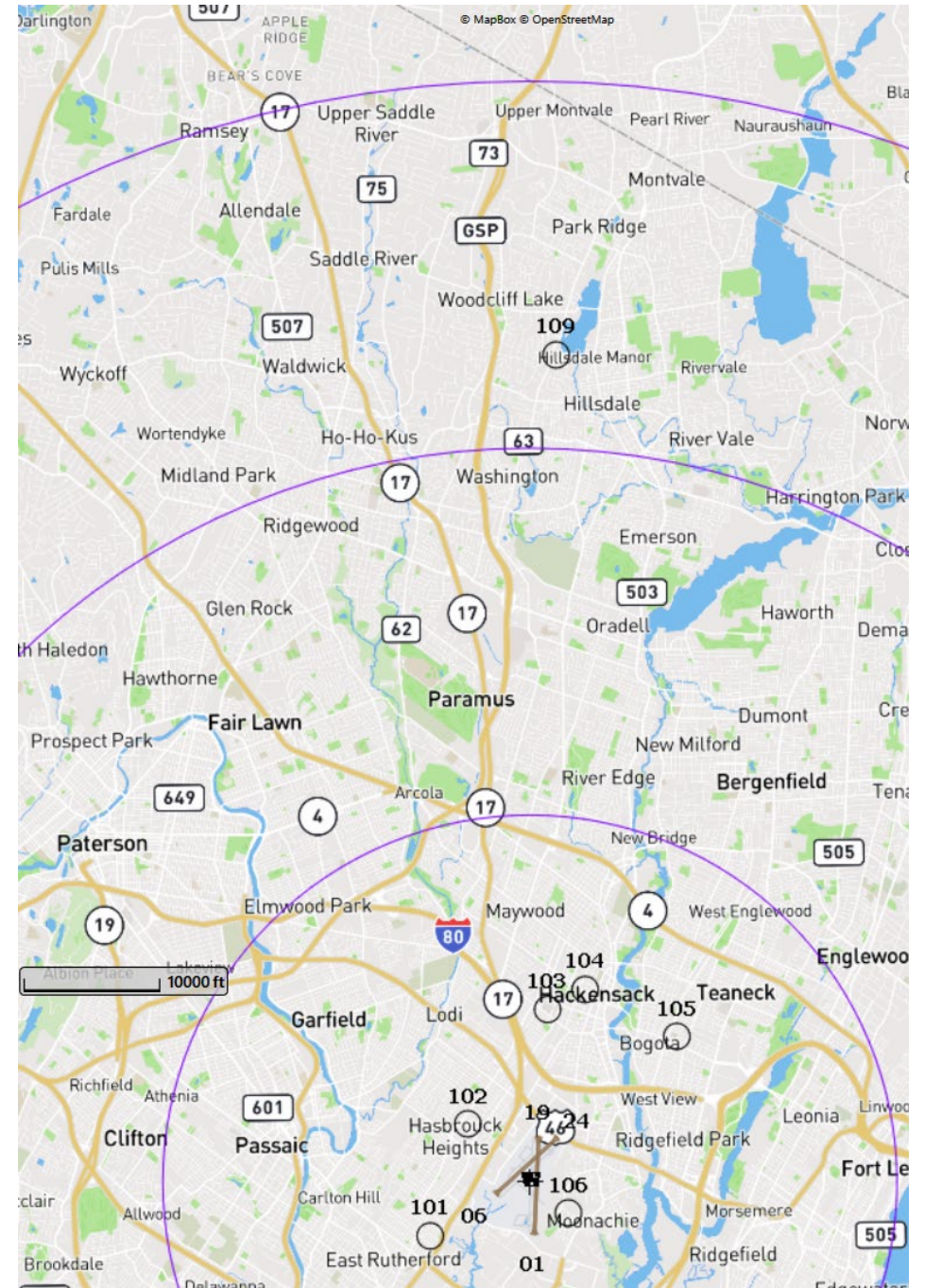
Remote Monitoring Site 109

32 Pascack Rd. Woodcliff Lake, NJ

August 22, 2022 – September 21, 2022

BACKGROUND

- A portable noise monitor was installed in Woodcliff Lake for a three-month period at the request of TANAAC and the Borough of Woodcliff Lake
- The monitor is located approximately 11.3 miles north of the center of the airport and is adjacent to the instrument approach path for Runway 19
- The noise and operational data presented here is between August 22 and September 21



AIRCRAFT NOISE SUMMARY

- Average noise levels are measured using the Day Night Average Sound Level (Ldn) metric
- Ldn is a long-term weighted average that adds a 10 decibel (dB) penalty to any noise events occurring between 10:00 PM and 7:00 AM
- LdN is the federally mandated system used by the FAA and airports to measure aircraft noise exposure levels

Aircraft Ldn Levels and Noise Events at RMS 109		
Month	Ldn (Aircraft)	Ldn (Community)
August (22-31)	43.8	60.1
September (1-21)	45.8	59.4
Total	45.4	59.6

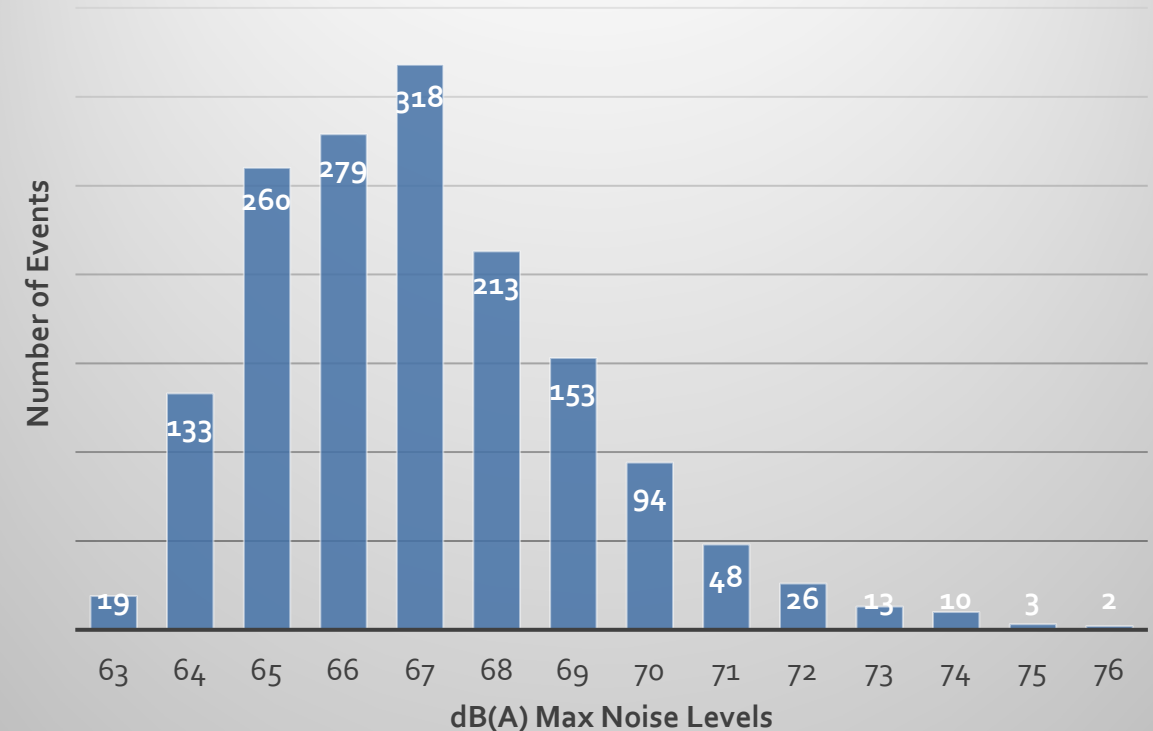
AIRCRAFT NOISE EVENTS

- Individual aircraft noise events were measured using the Maximum Noise Level (Lmax) metric
- Lmax is the maximum, or peak level that the noise reached during the aircraft overflight
- Lmax values at RMS 109 ranged from 63 dB to 76 dB

Number of Aircraft Noise Events Above Threshold (NAT)

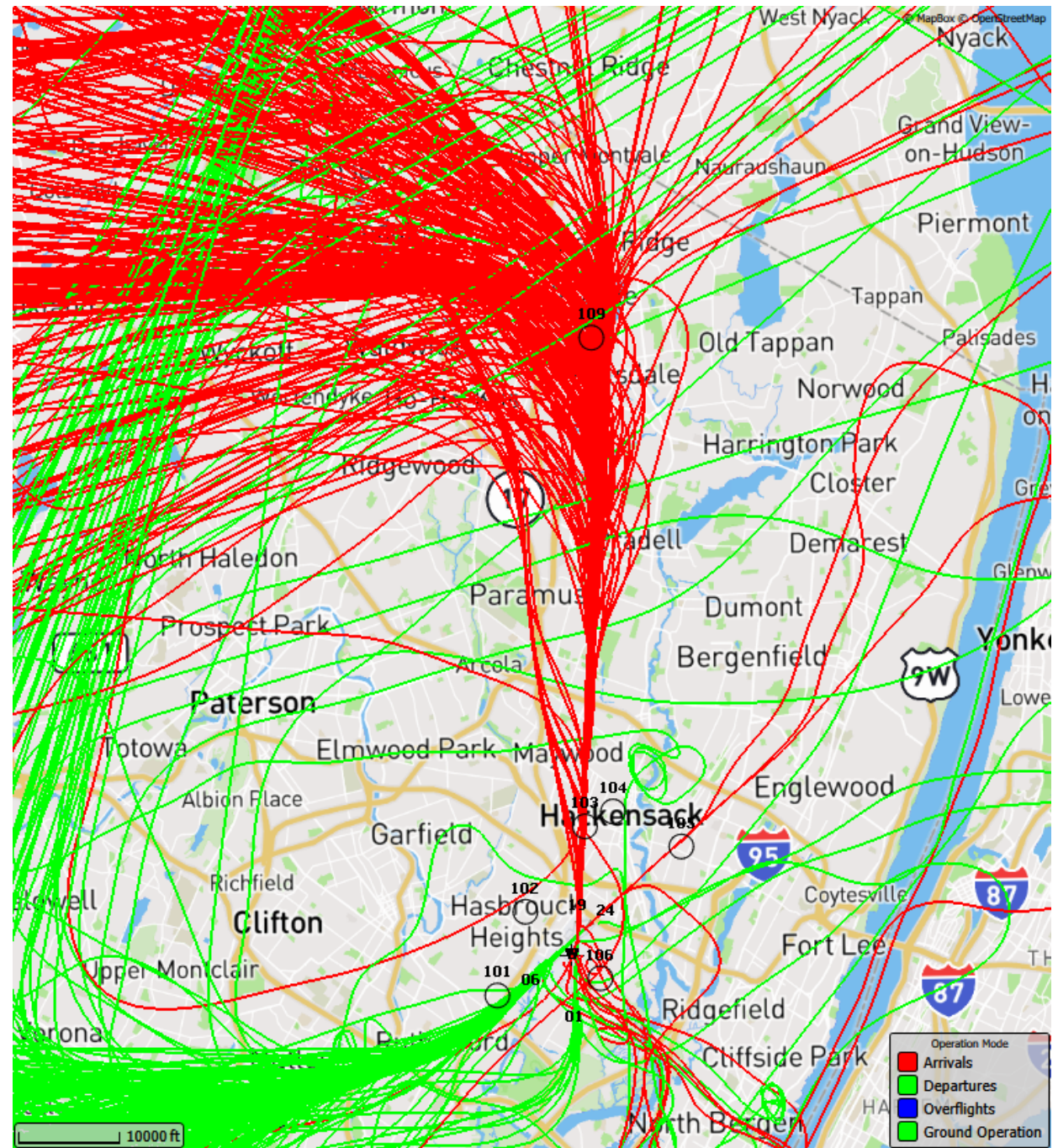
Month	NAT 65 dB Total number of events	NAT 65 dB Daily Avg number of events	NAT 70 dB Total number of events	NAT 70 dB Daily Avg number of events
August (22-31)	288	29	34	3
September (1-21)	920	44	100	5
Total	1,208	40	134	4

Total Number of Measured Aircraft Noise Events



TEB Arrivals (Red) and Departures (Green) on a sample date (9/13/22)

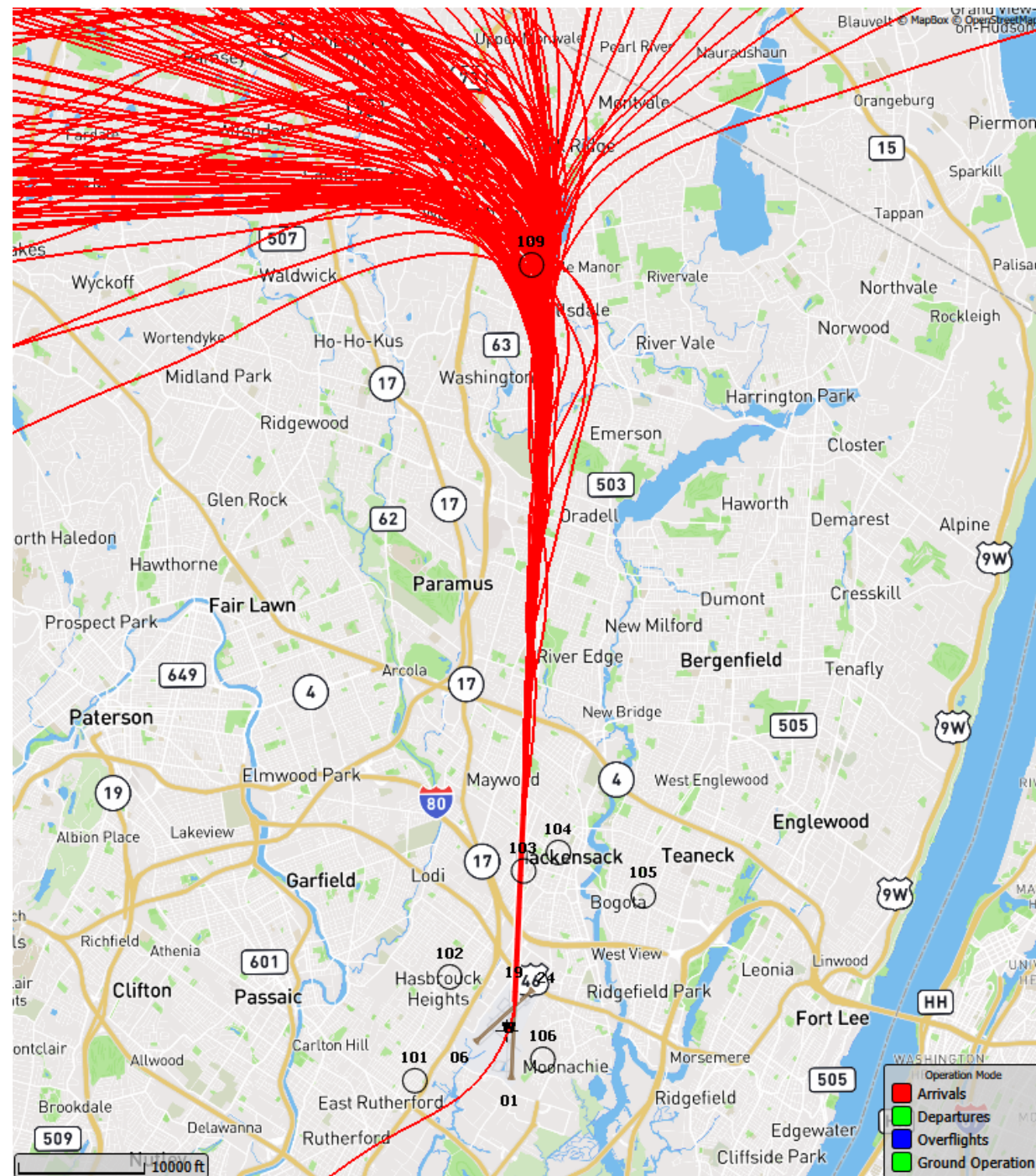
315 departures and 311 arrivals (626 total movements)



FLIGHT TRACK ANALYSIS

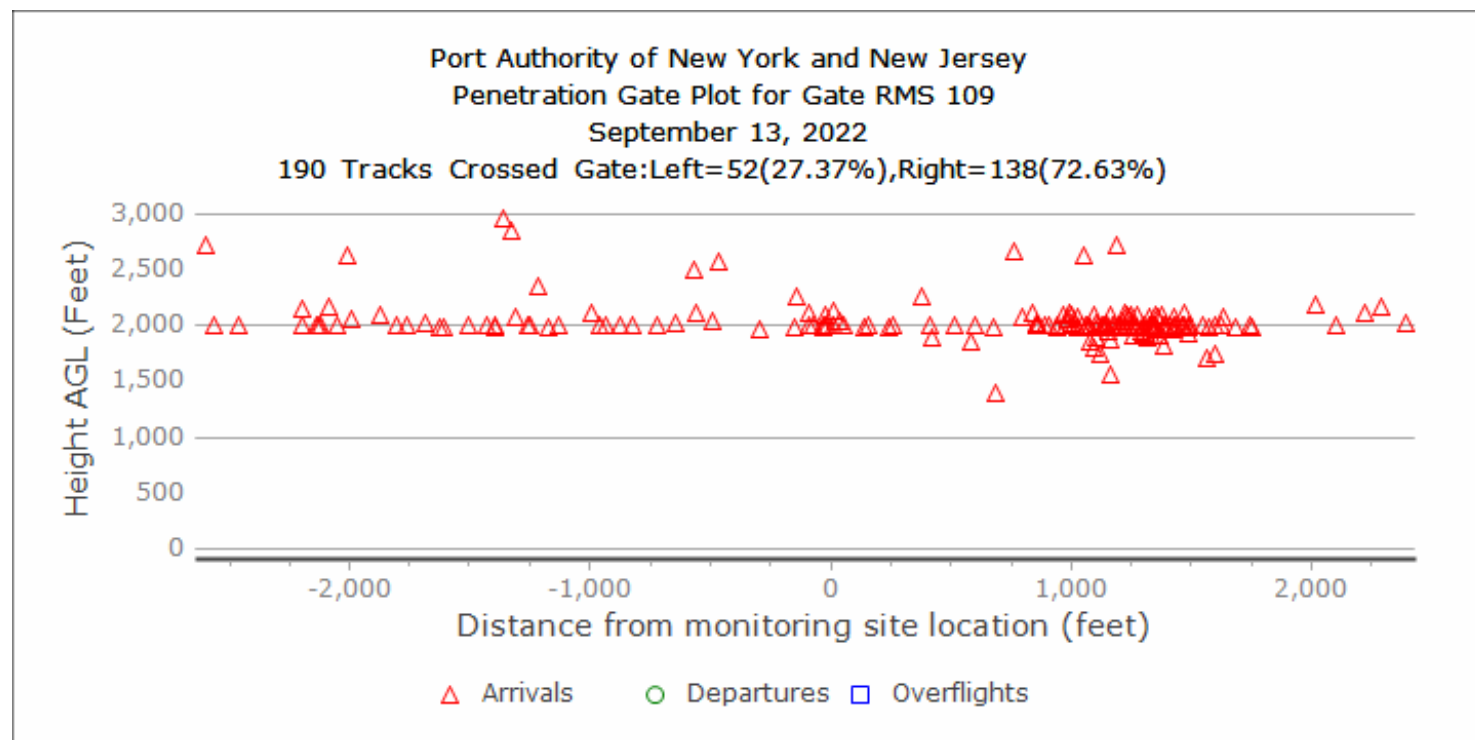
TEB Arrivals within $\frac{1}{2}$ or RMS
109 on 9/13/22

190 arrivals flew near RMS 109



FLIGHT TRACK ANALYSIS

Majority of TEB arrivals are at 2,000 ft. or above



TANAAC Membership





Committee Comments / Questions



Thank you for your Attendance

The next TANAAC Meeting is scheduled for
January 25, 2022