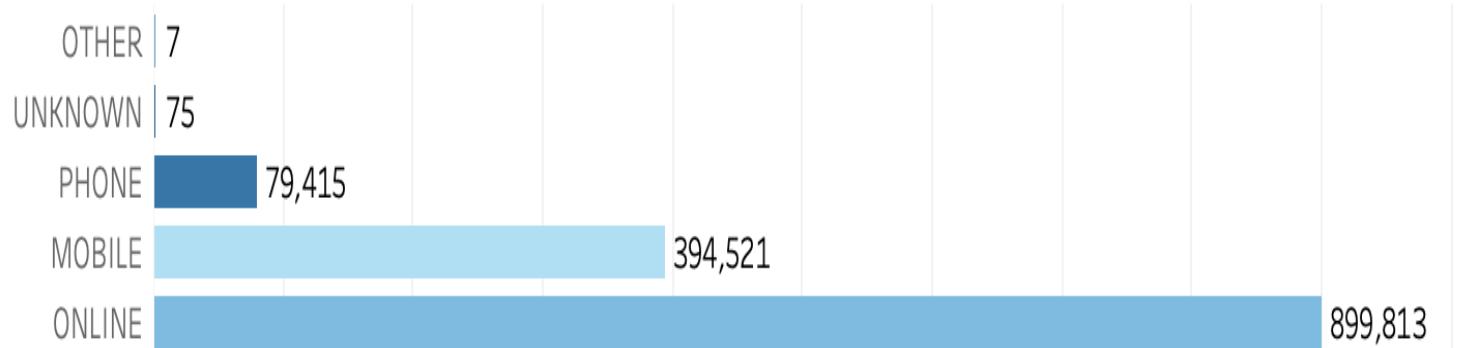
A close-up photograph of cherry blossom branches with clusters of pink flowers. Overlaid on the image are several thin, dashed white lines forming concentric circles and some solid pink lines, creating a sense of depth and data analysis.

NYC Noise complaints analysis

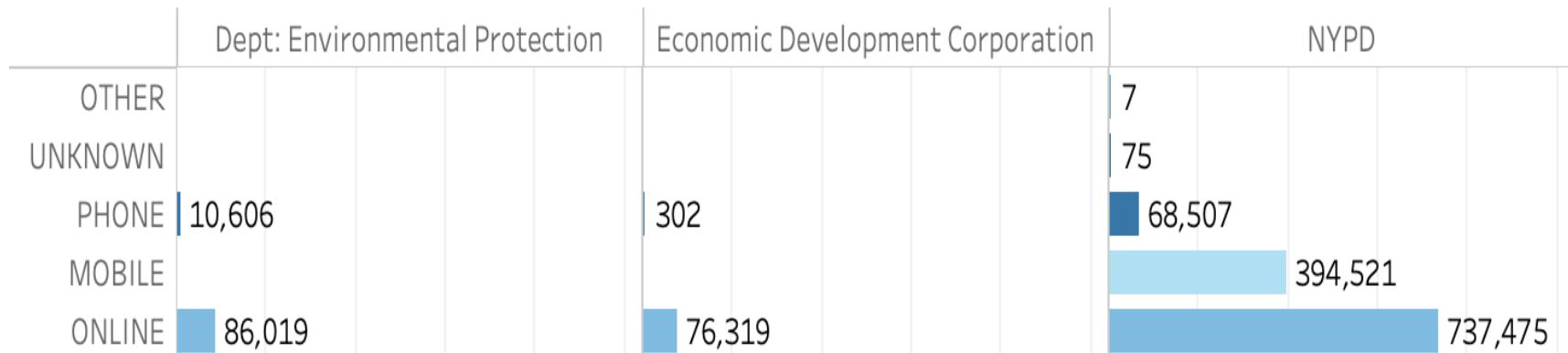
Mala Chaurasia,

NYC 311 –Noise Complaint Channels

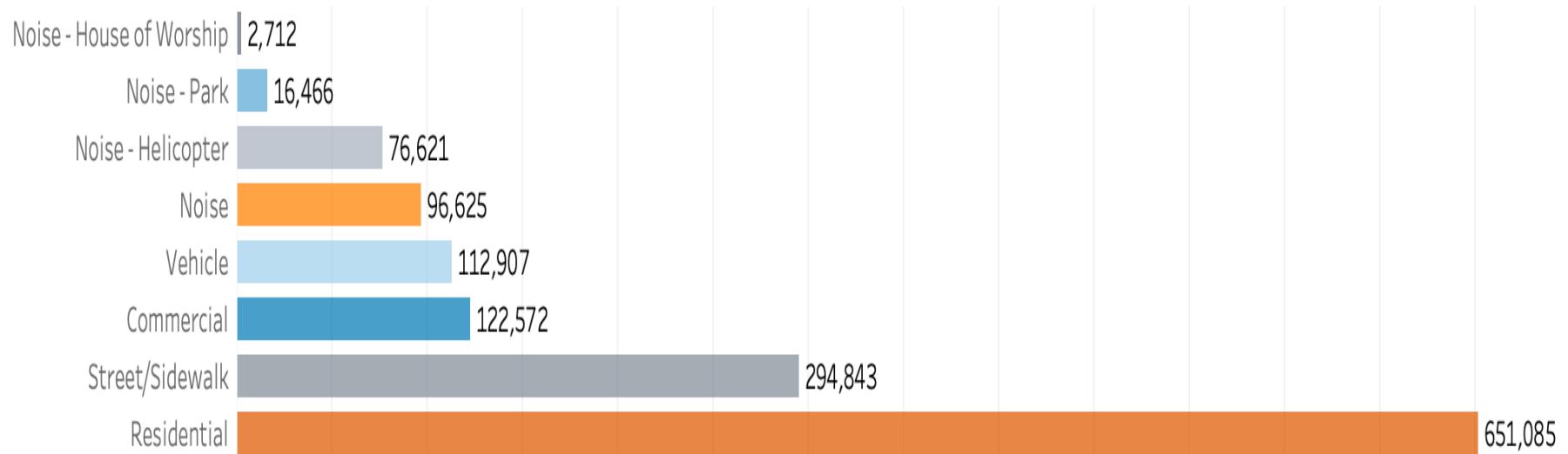
Noise complaints: 1,394,227, Jan 22 – 10 December 23



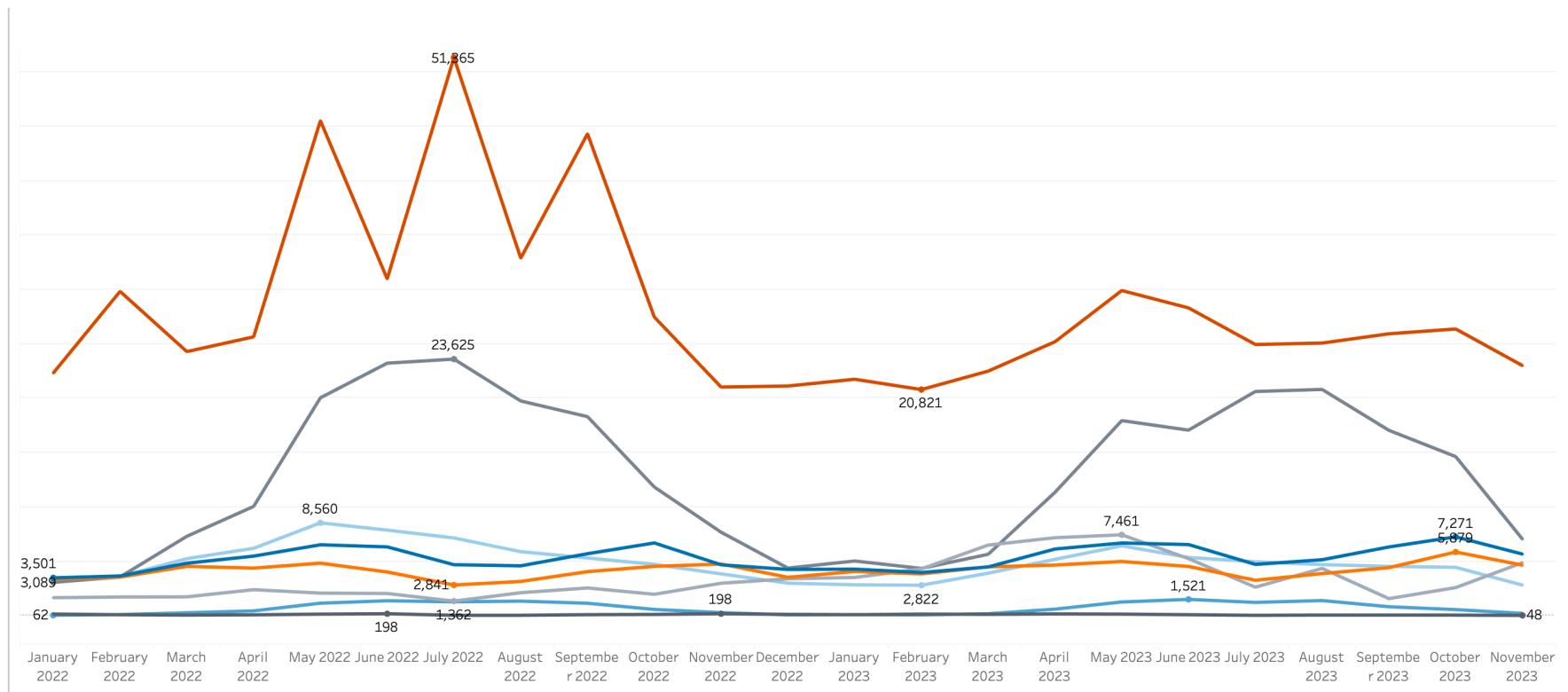
NYC 311 –Agencies & Noise complaint Channels



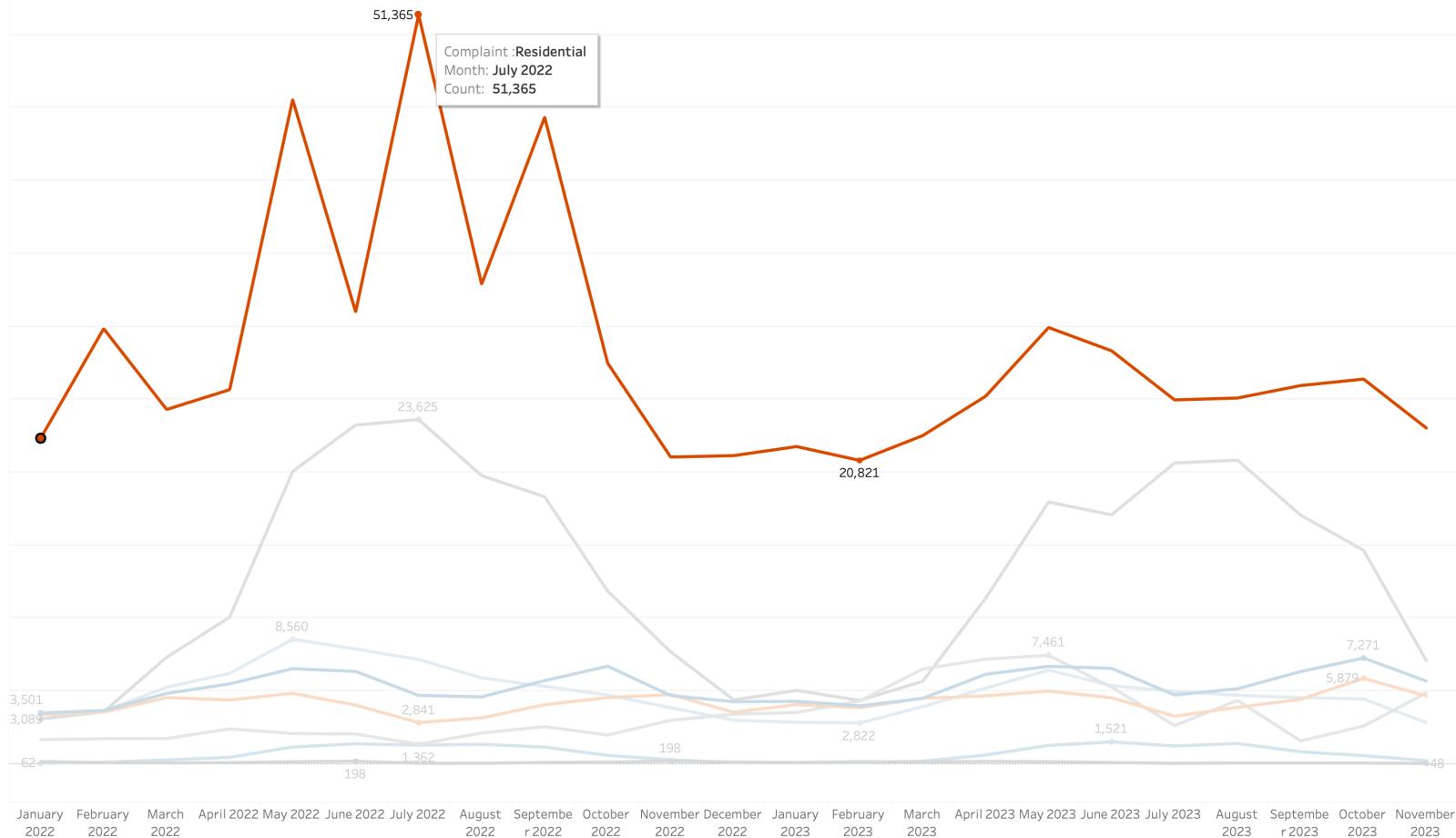
Noise complaints: Jan 22-Nov23



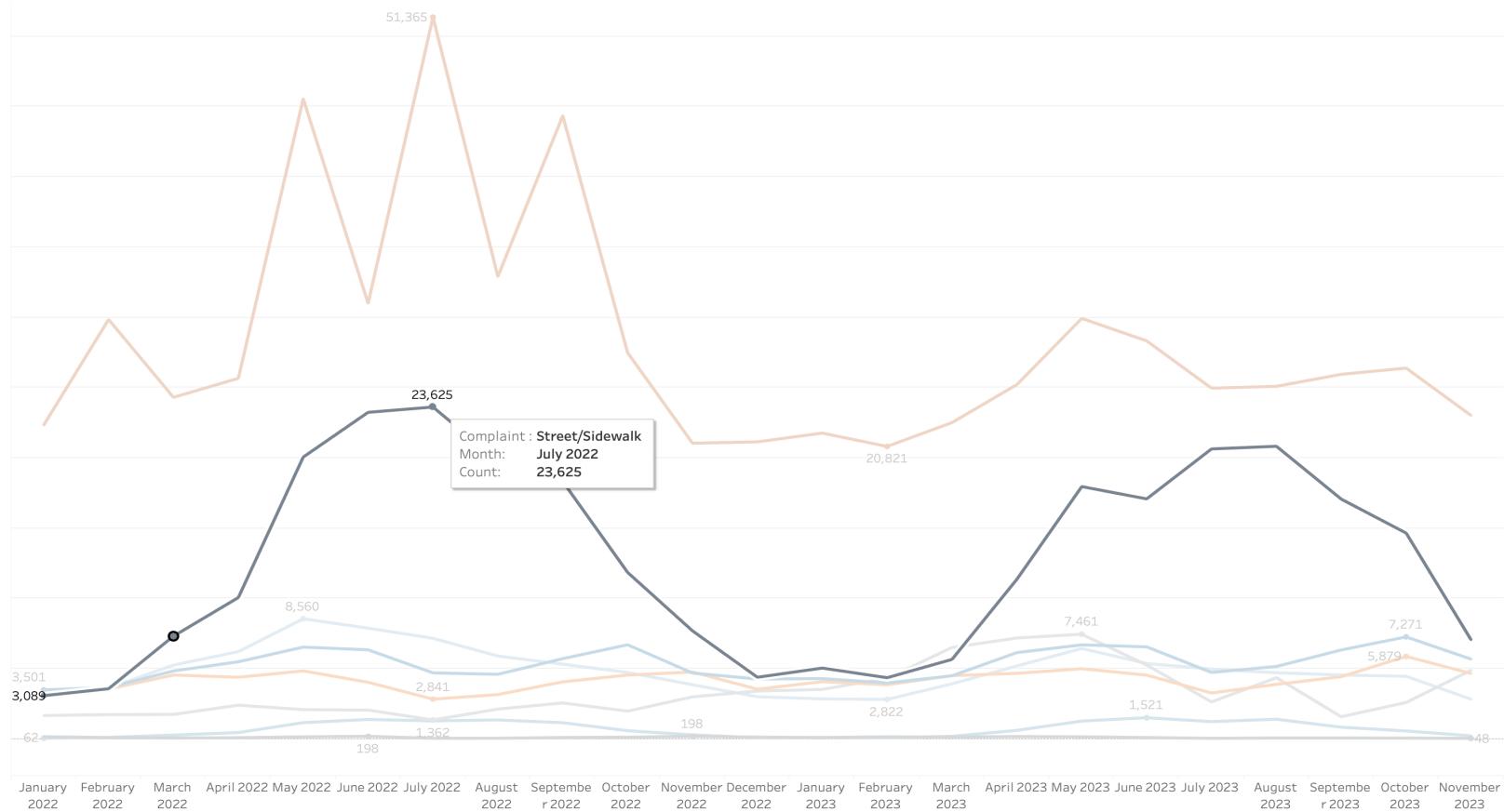
Noise Complaints Monthly trend: Jan 22- Nov 23



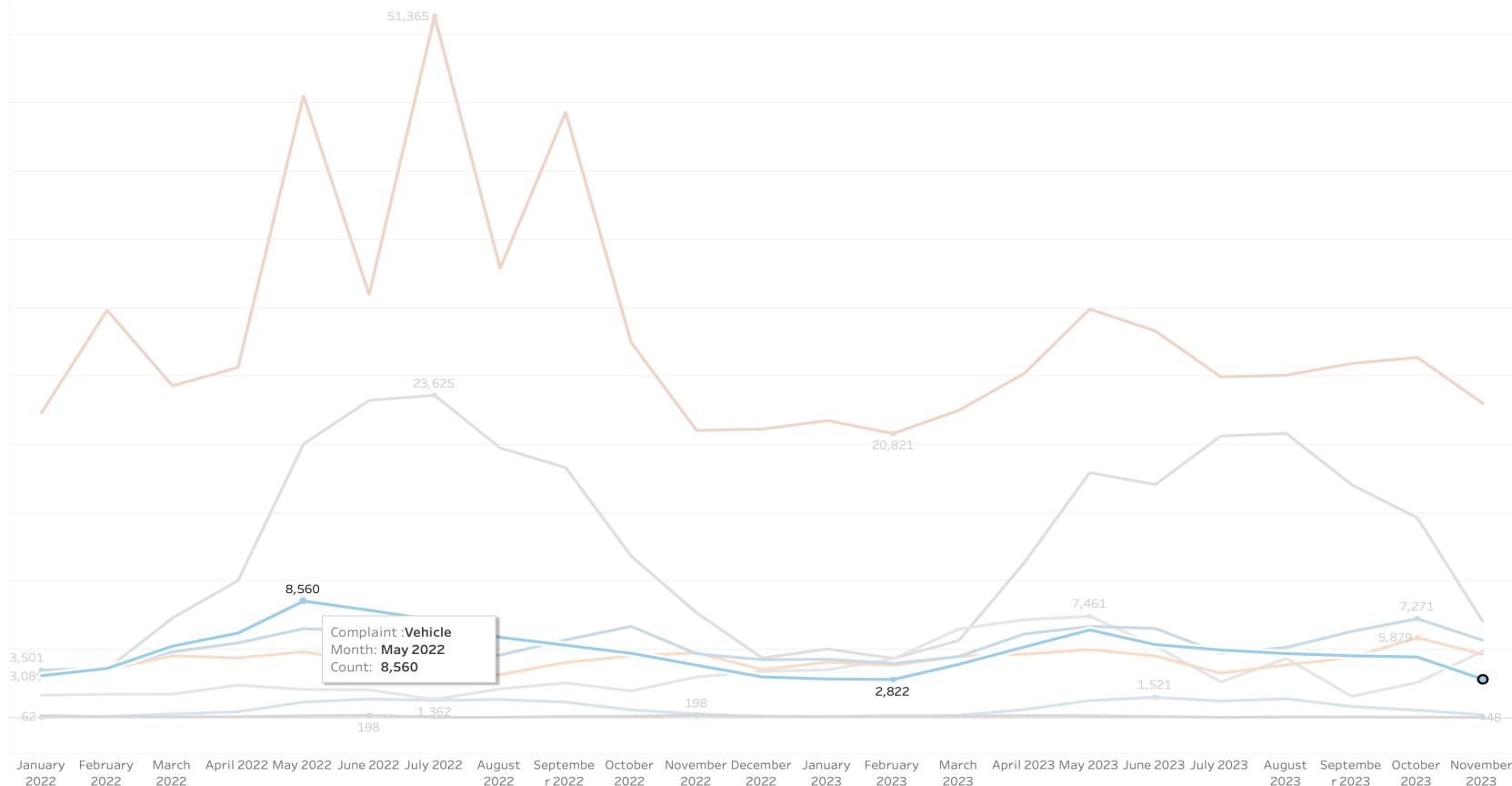
Residential Noise: Jan 22- Nov 23



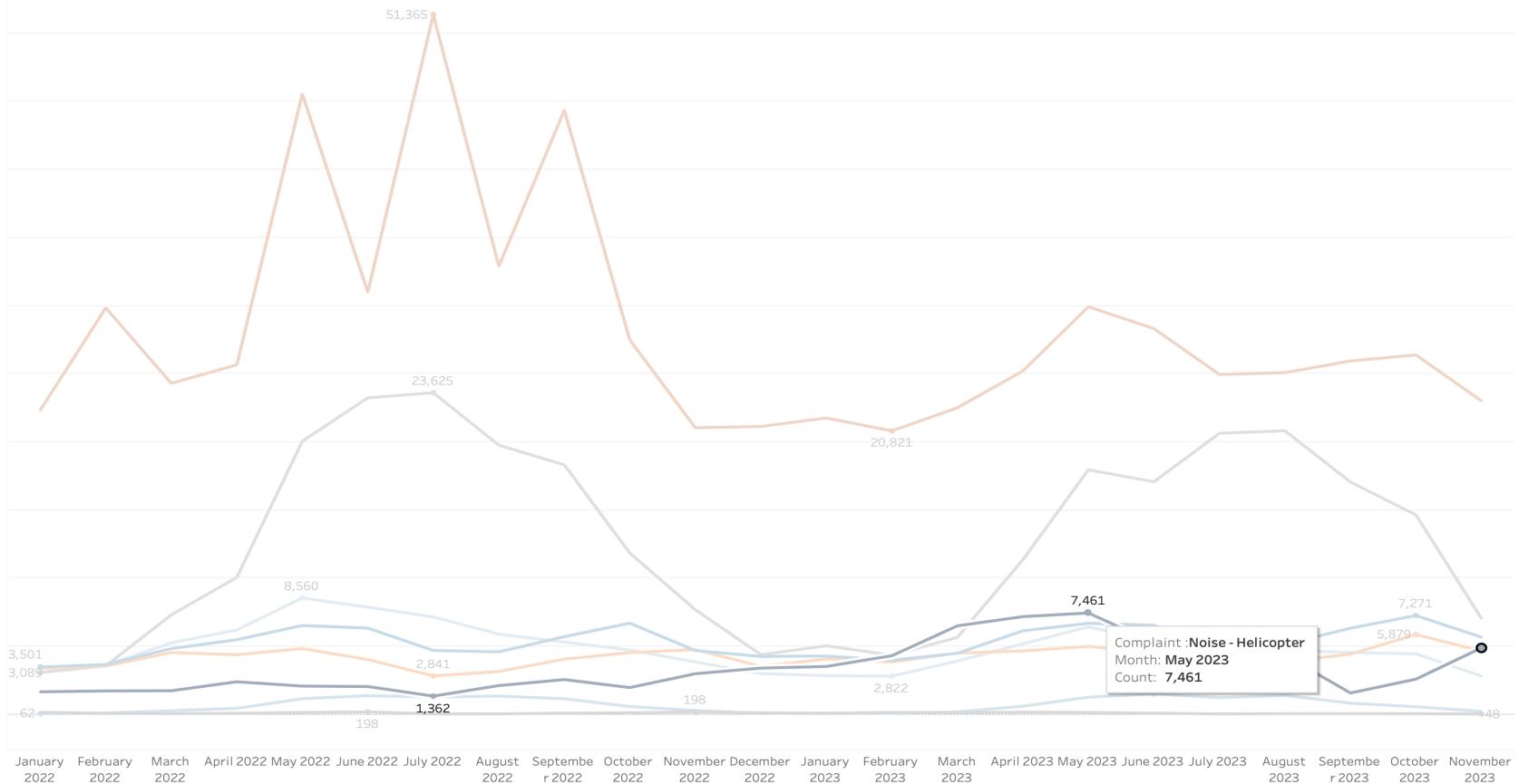
Street/sidewalk Noise: Jan 22- Nov 23



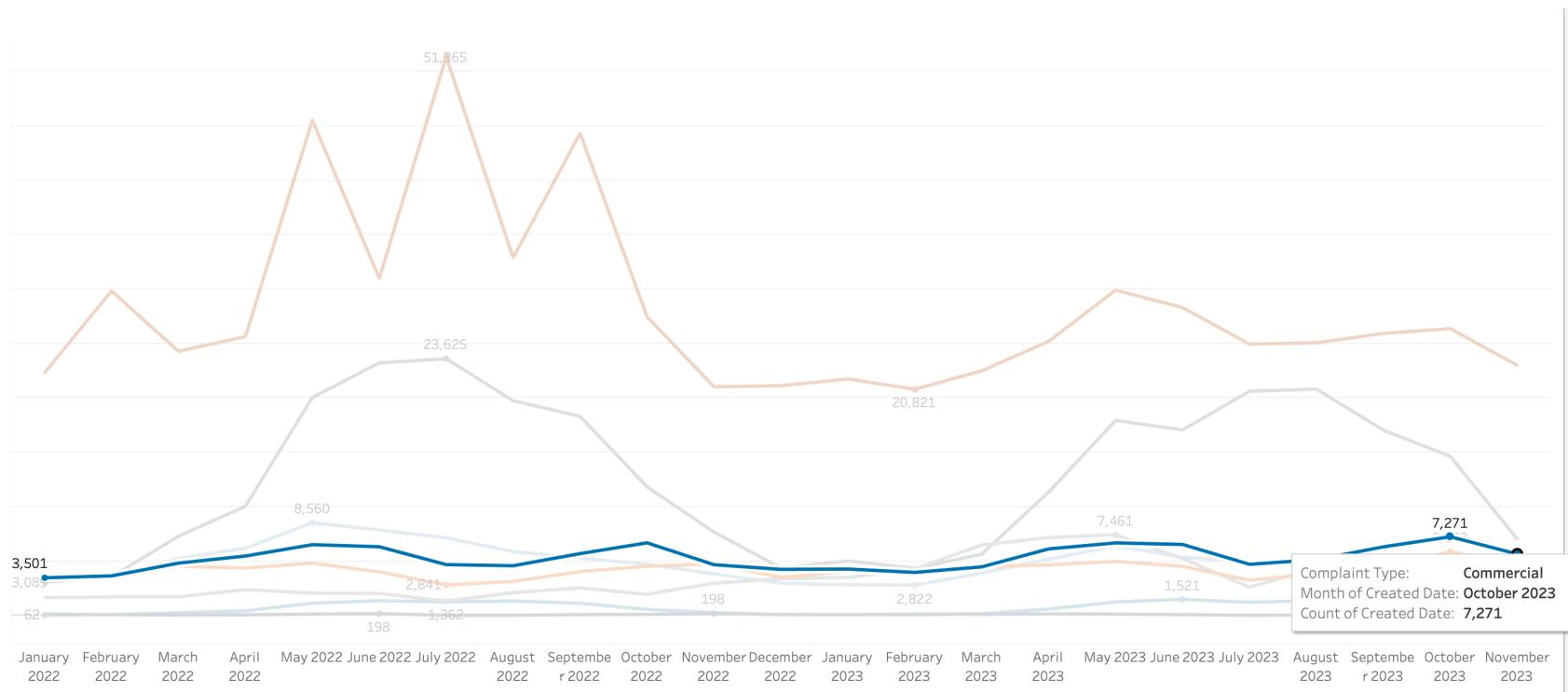
Vehicle Noise: Jan 22- Nov 23



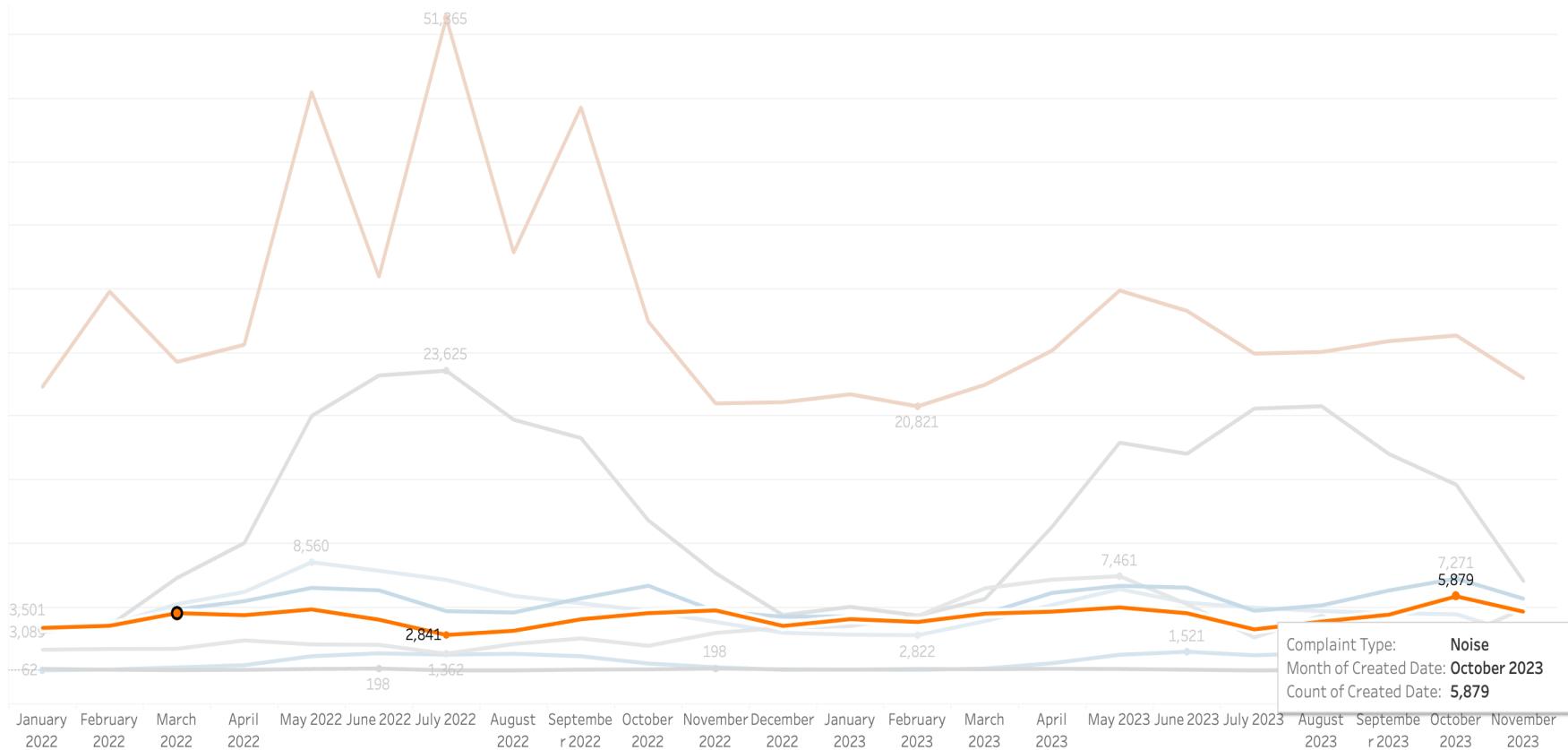
Helicopter Noise: Jan 22- Nov 23



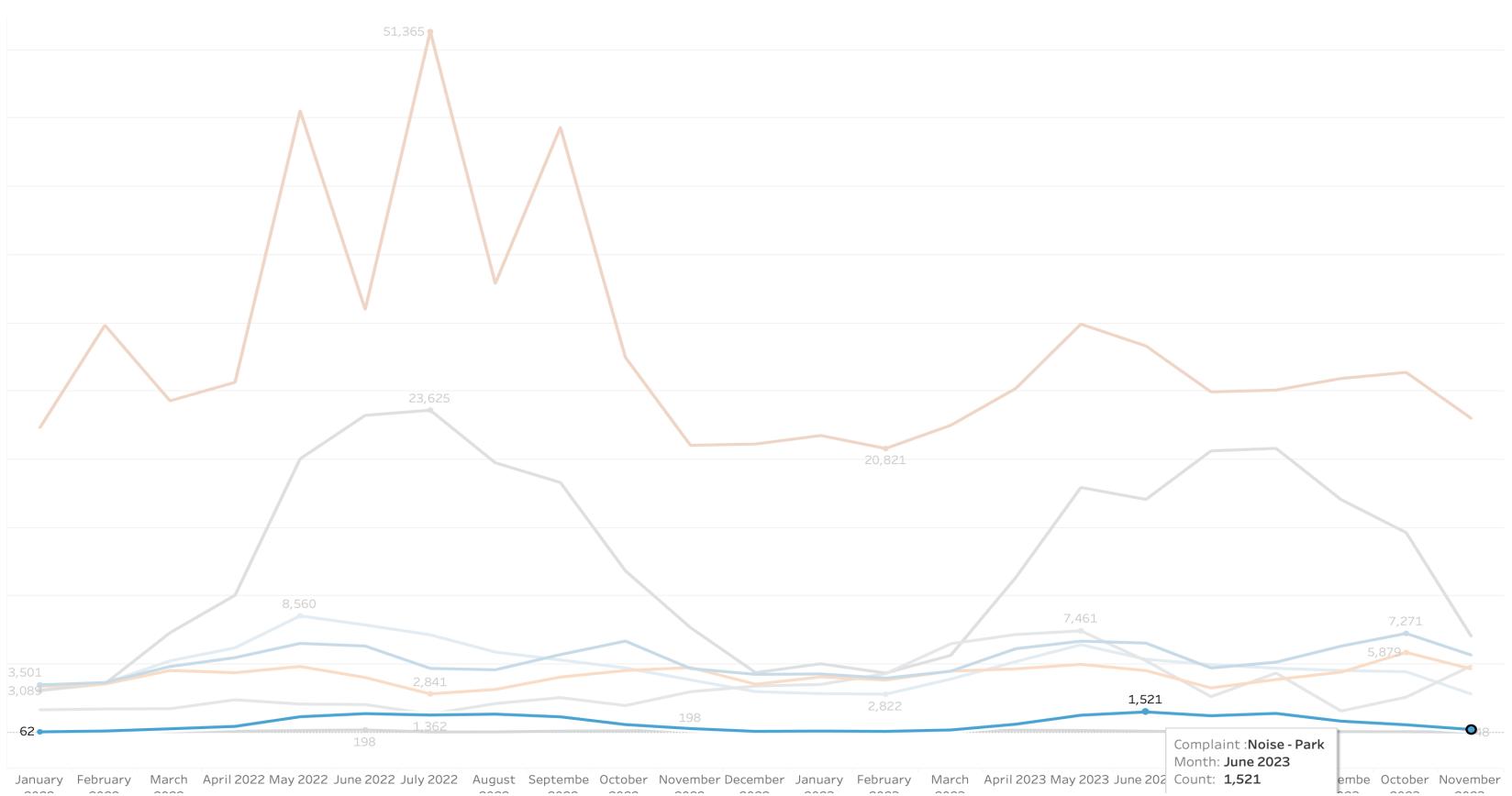
Commercial Noise: Jan 22- Nov 23



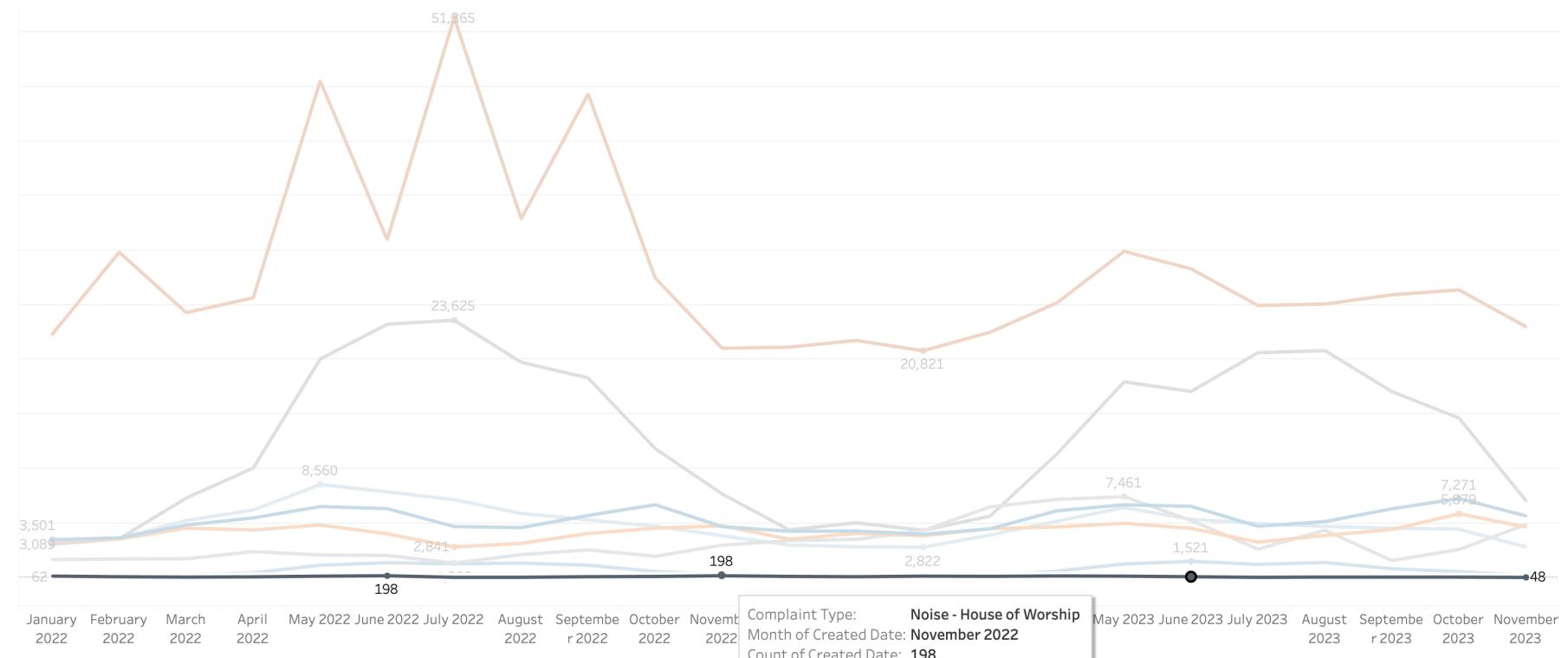
General Noise: Jan 22- Nov 23



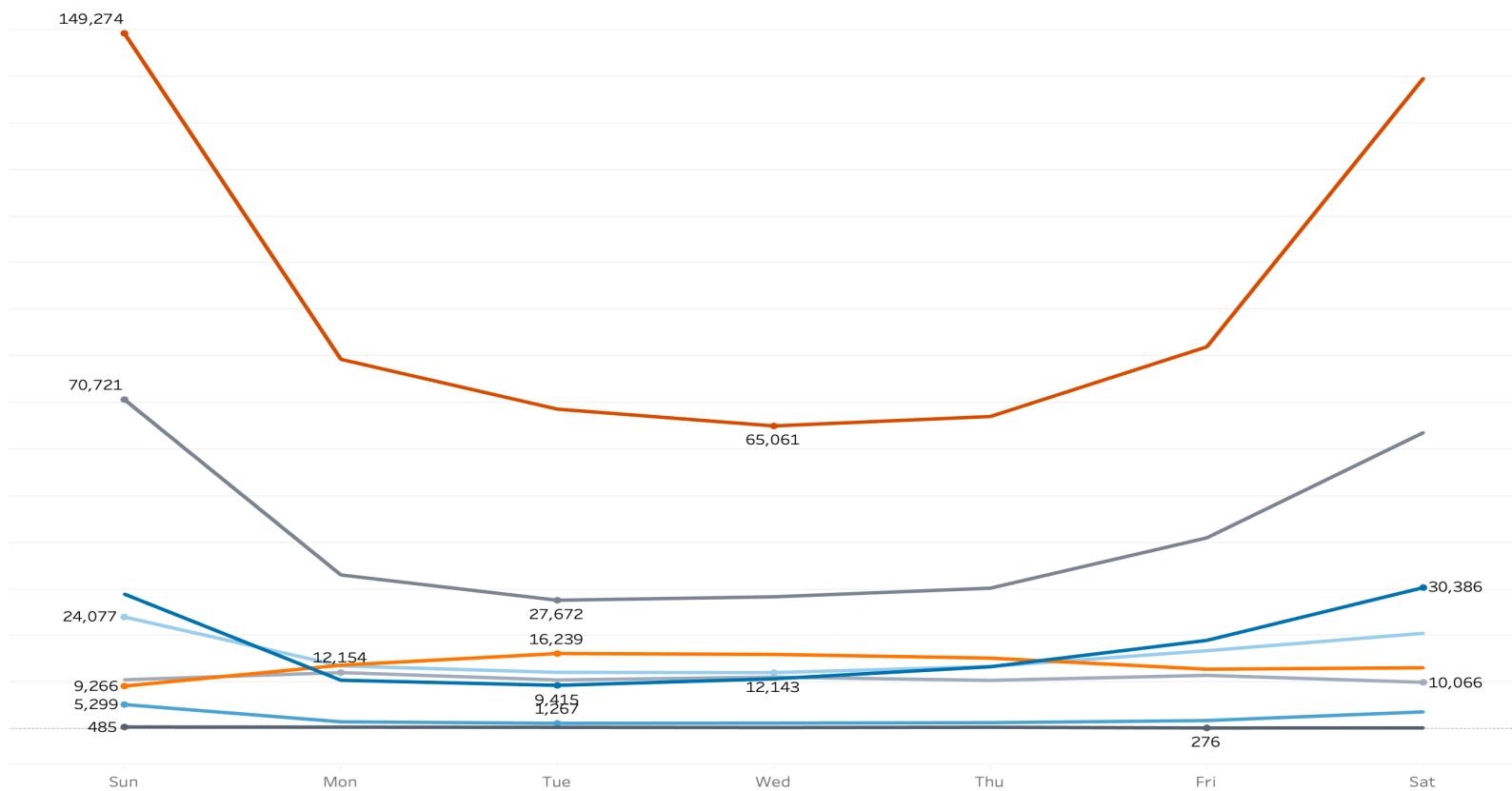
Park Noise: Jan 22- Nov 23



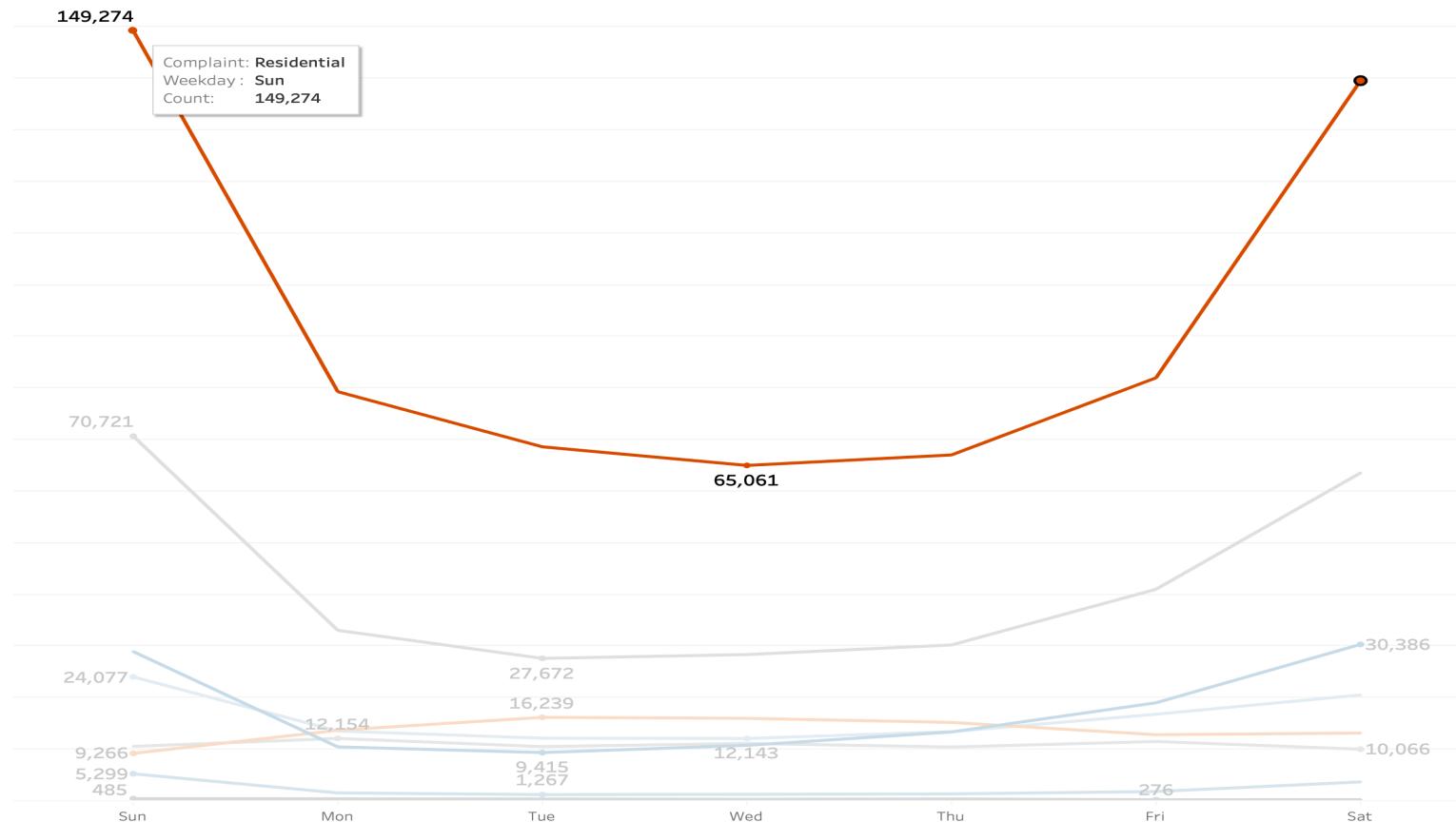
House of worship: Jan 22- Nov 23



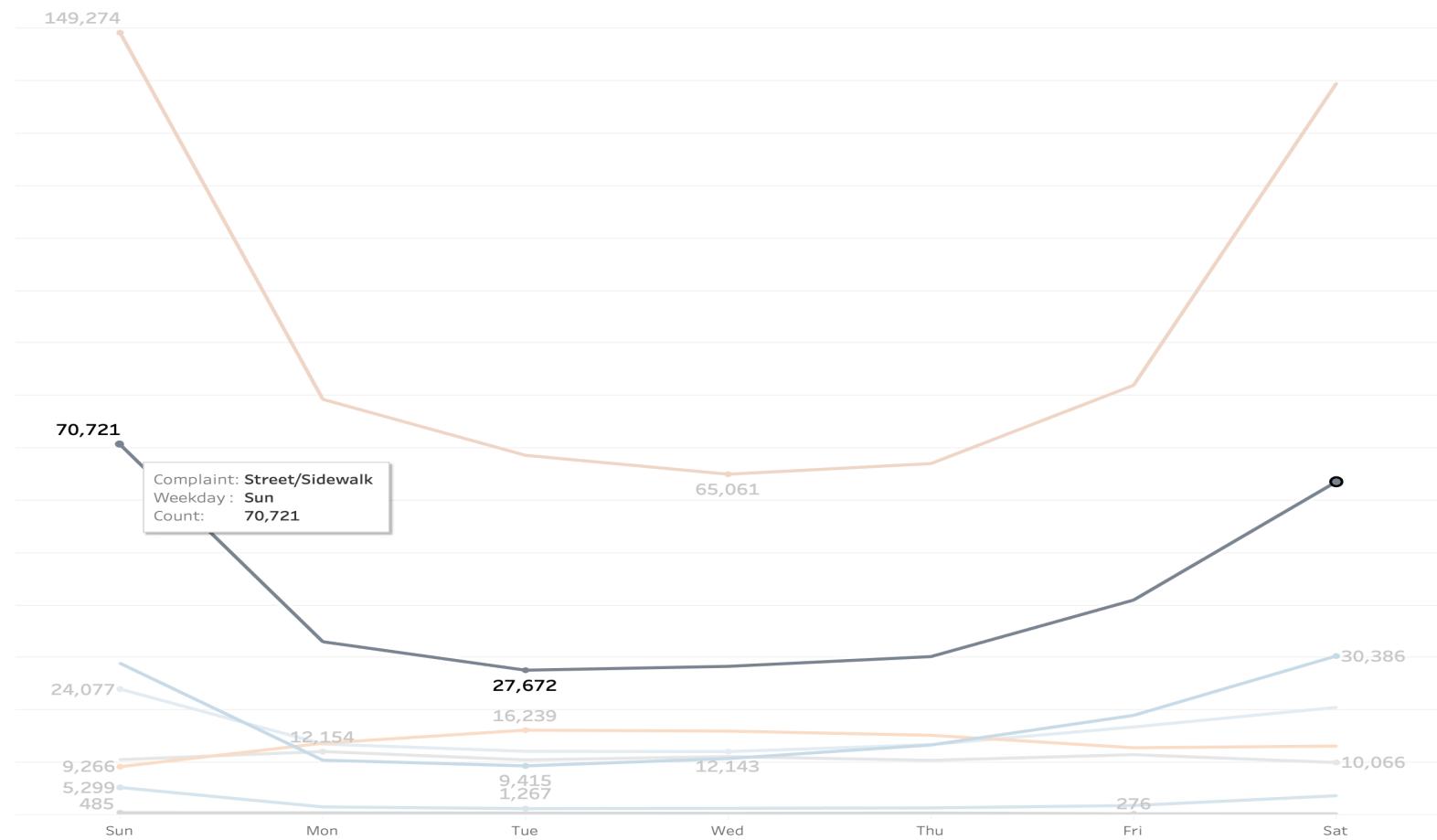
Noise complaints by day of week: Jan 22- Nov 23



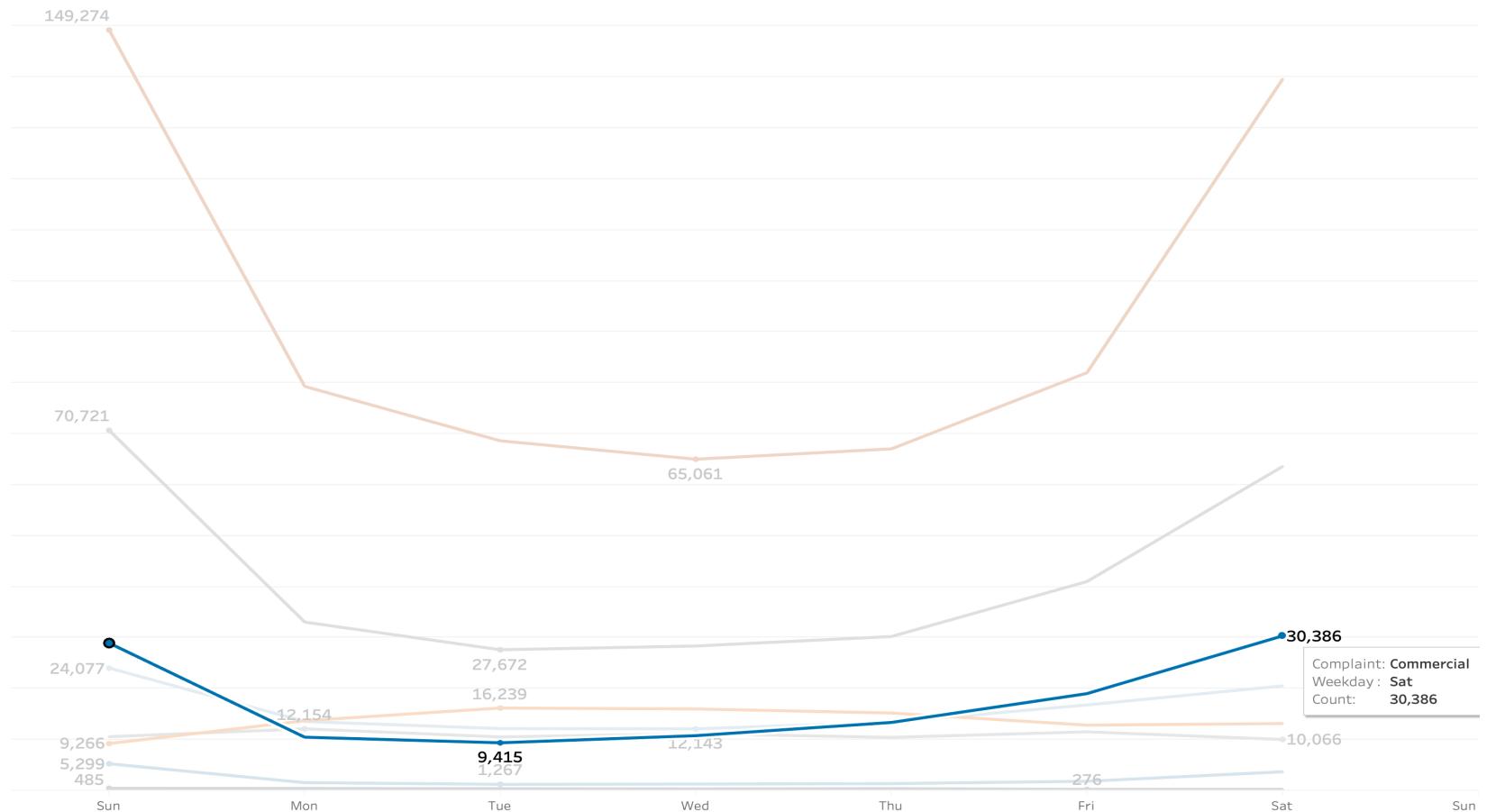
Residential complaints: Jan 22- Nov 23



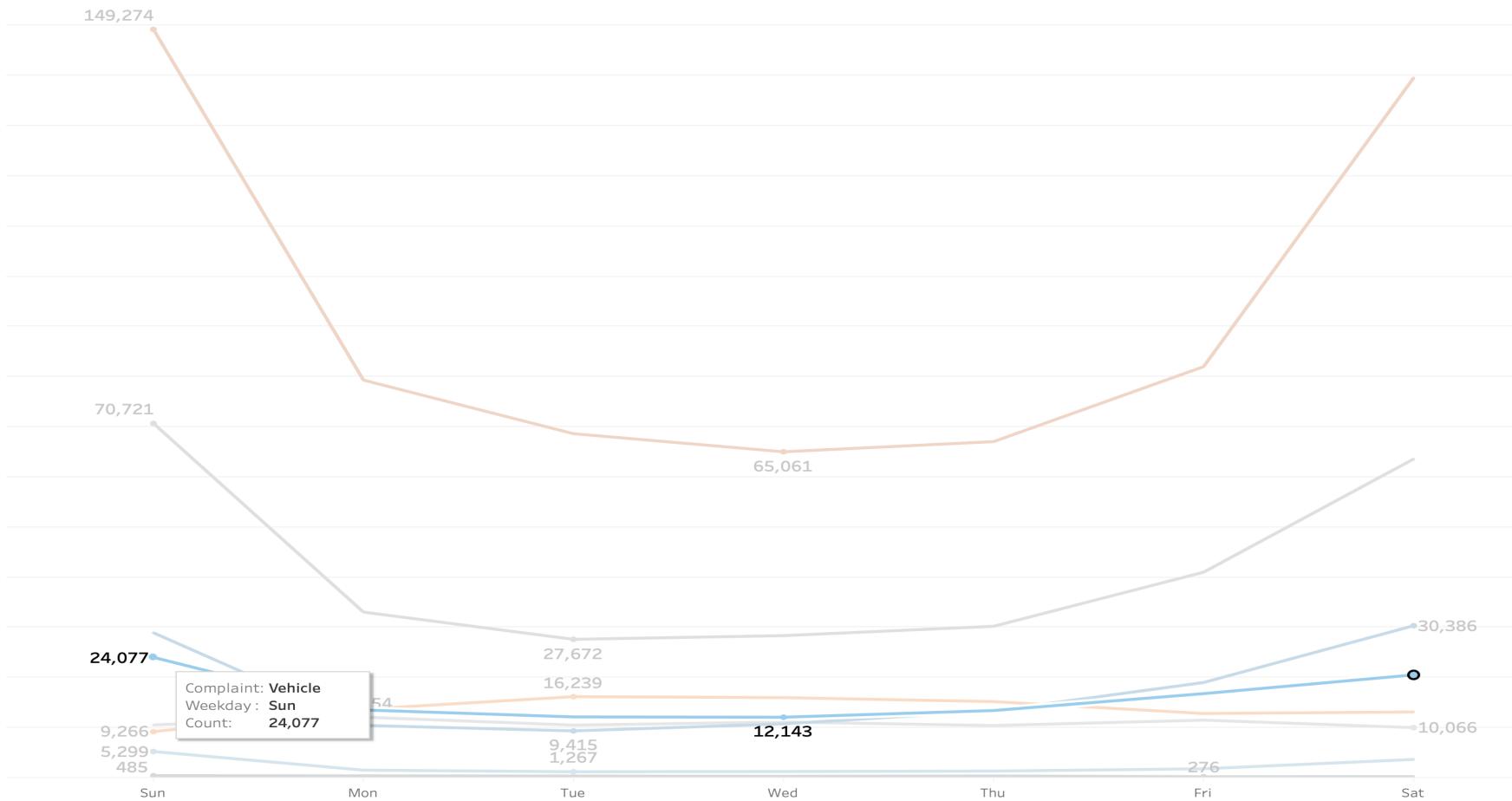
Street/sidewalk complaints: Jan 22- Nov 23



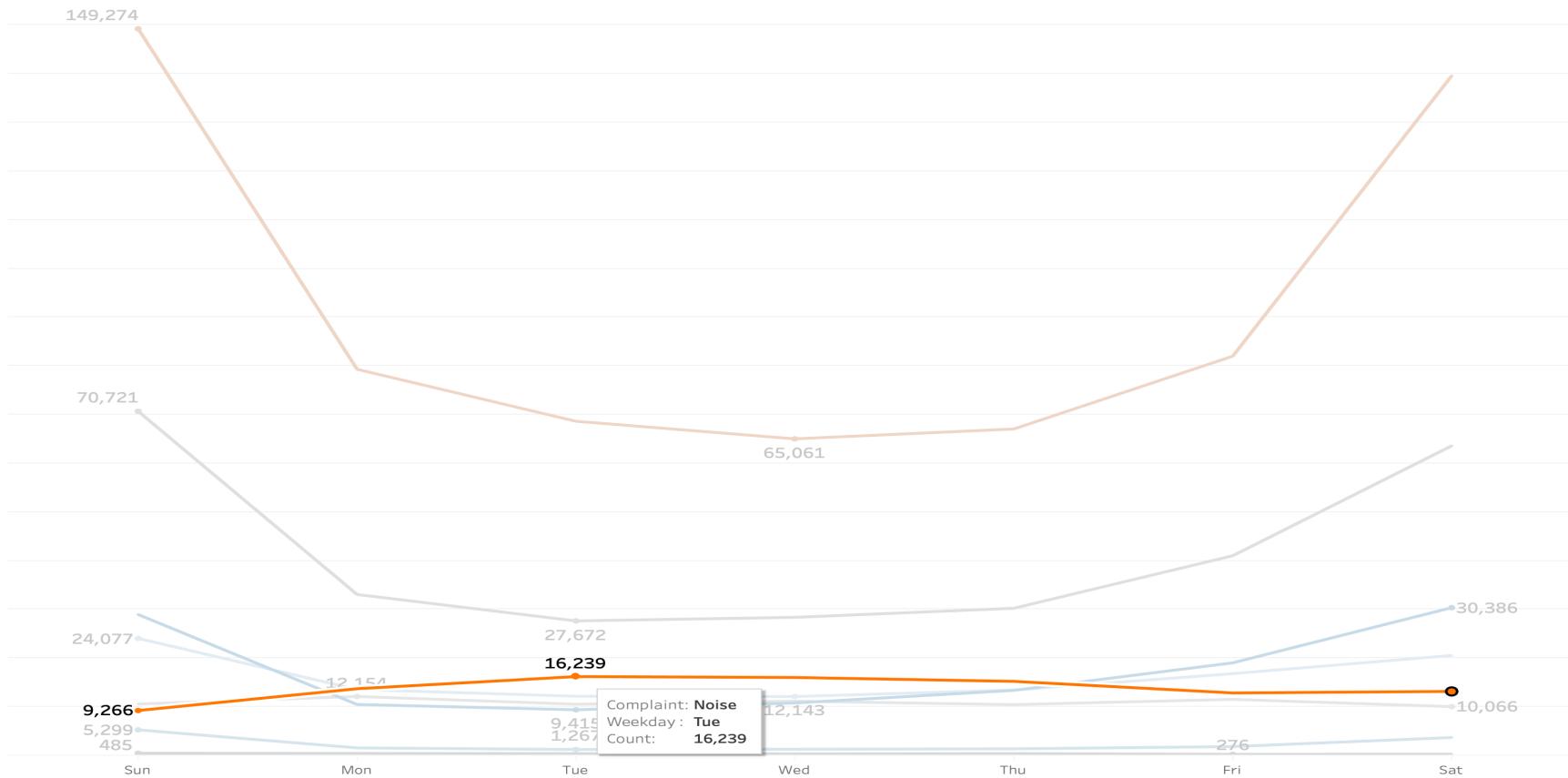
Commercial complaints: Jan 22- Nov 23



Vehicle complaints: Jan 22- Nov 23



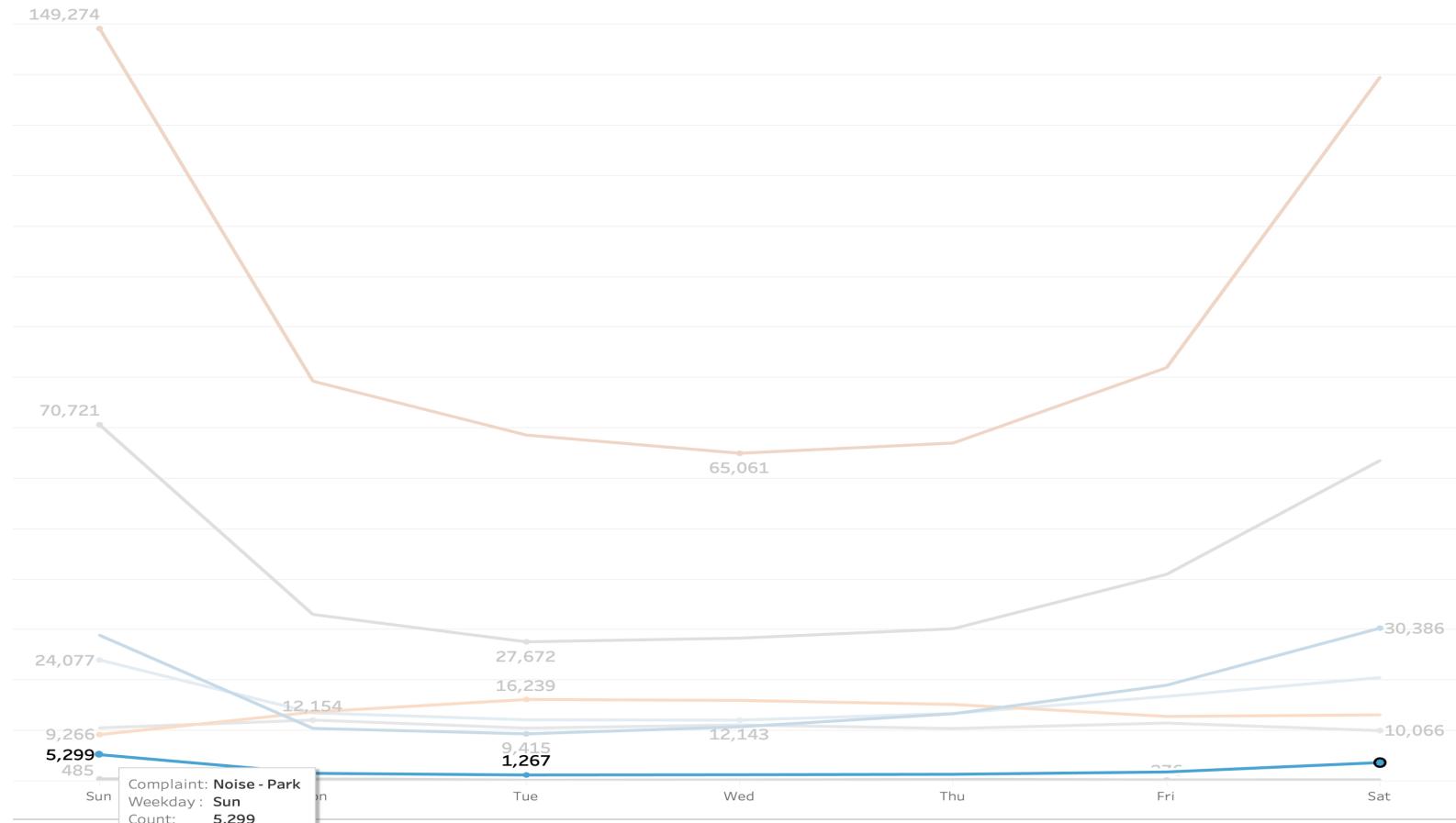
General Noise complaints: Jan 22- Nov 23



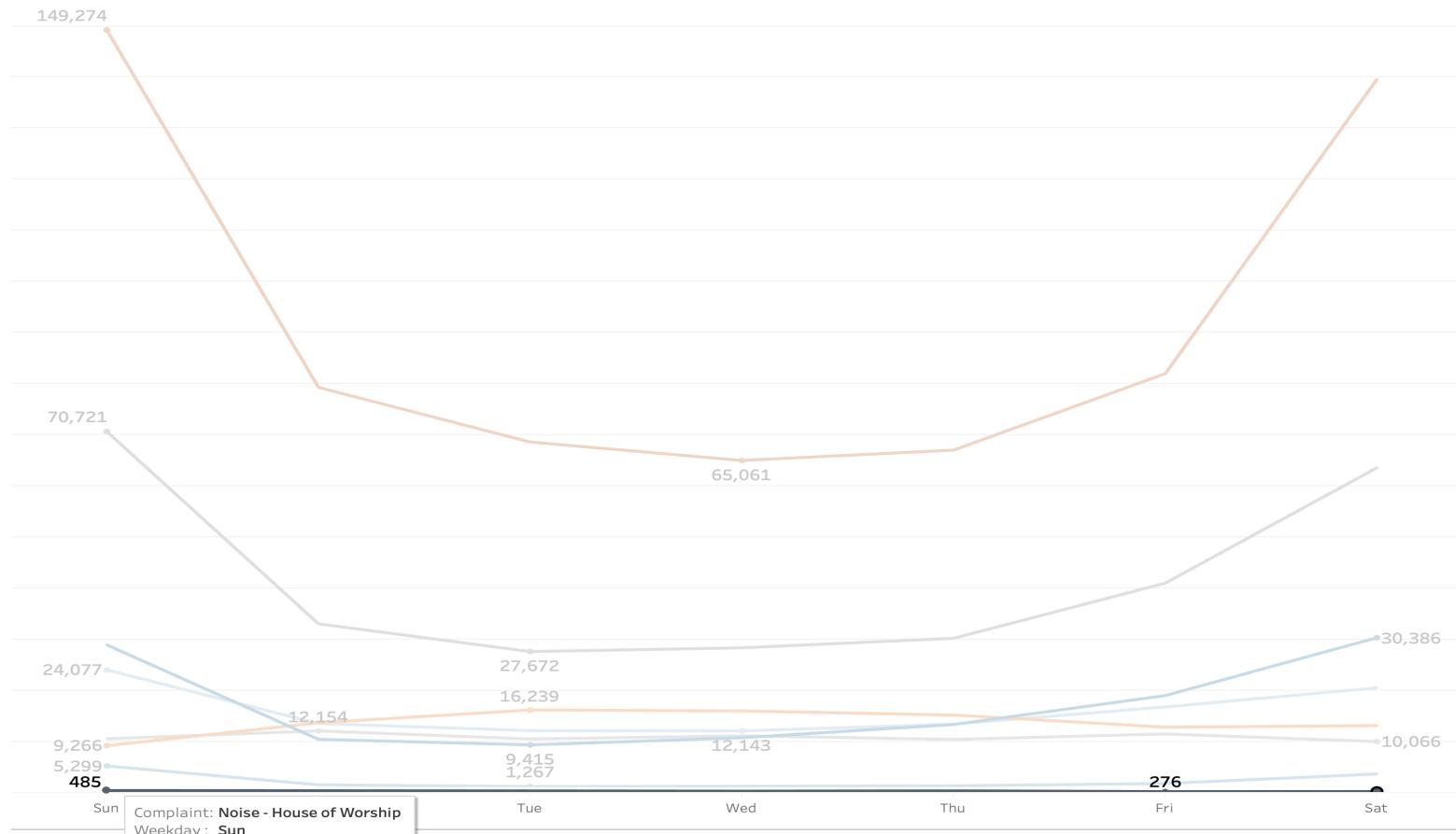
Helicopter Noise complaints: Jan 22- Nov 23



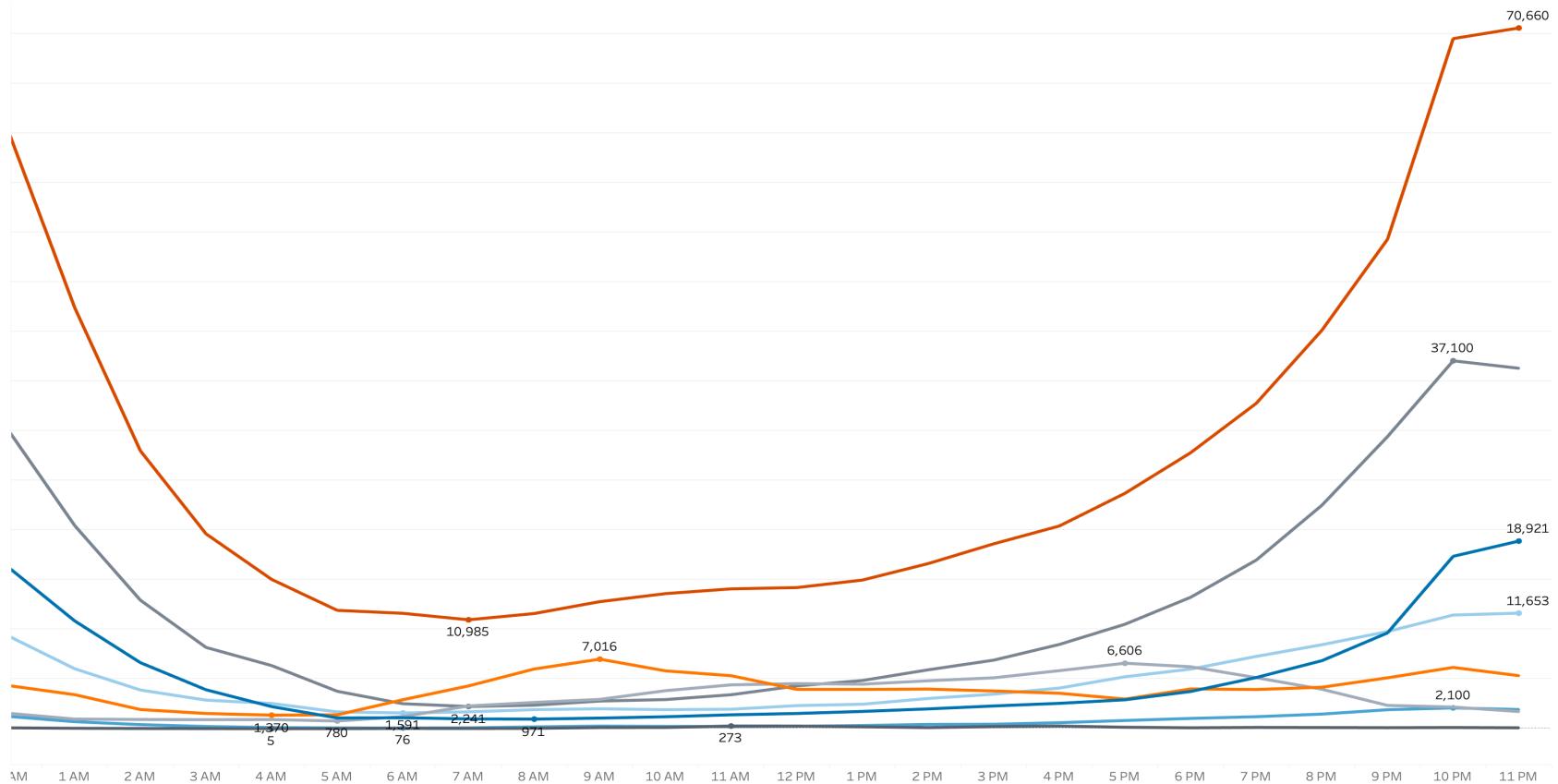
Park Noise complaints: Jan 22- Nov 23



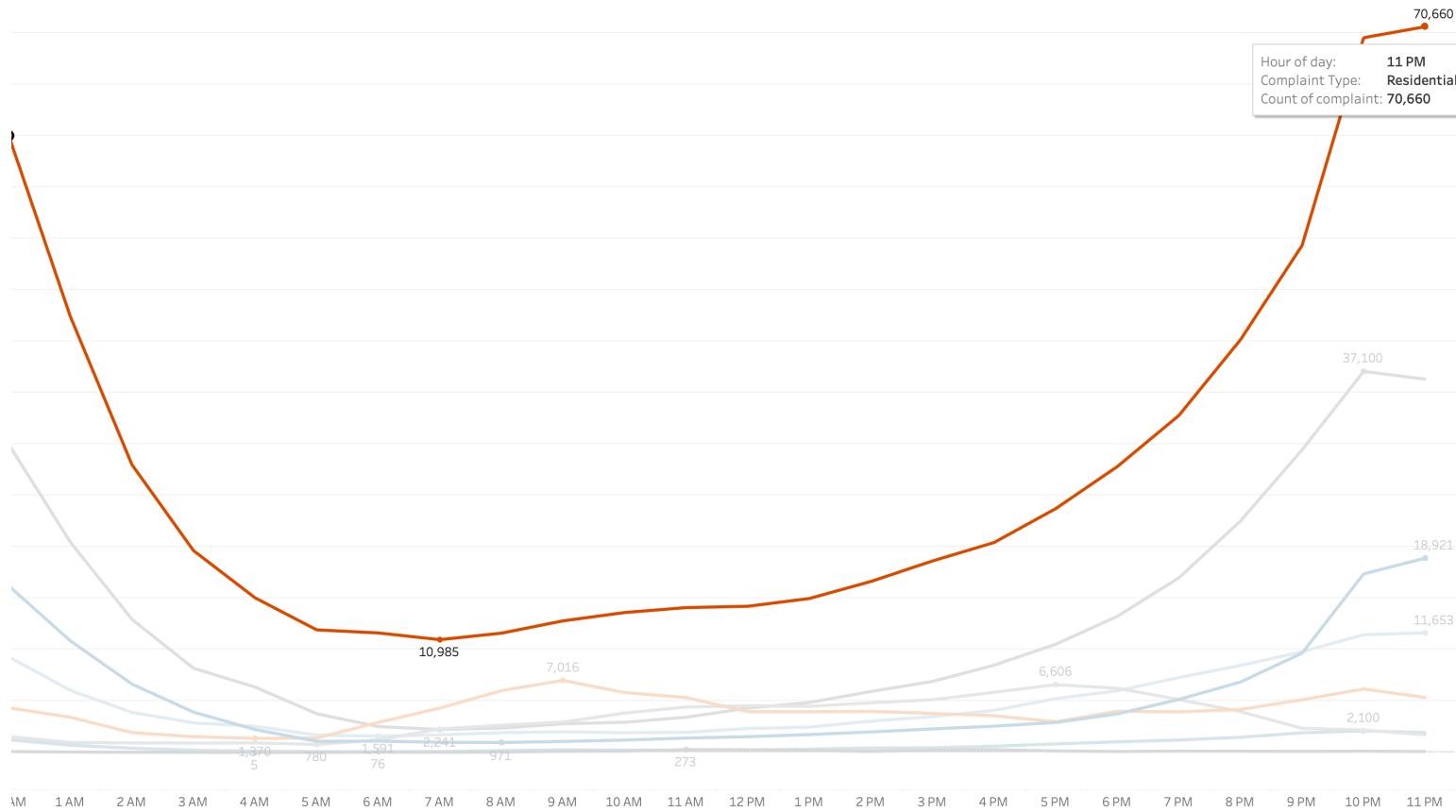
House of worship: Jan 22- Nov 23



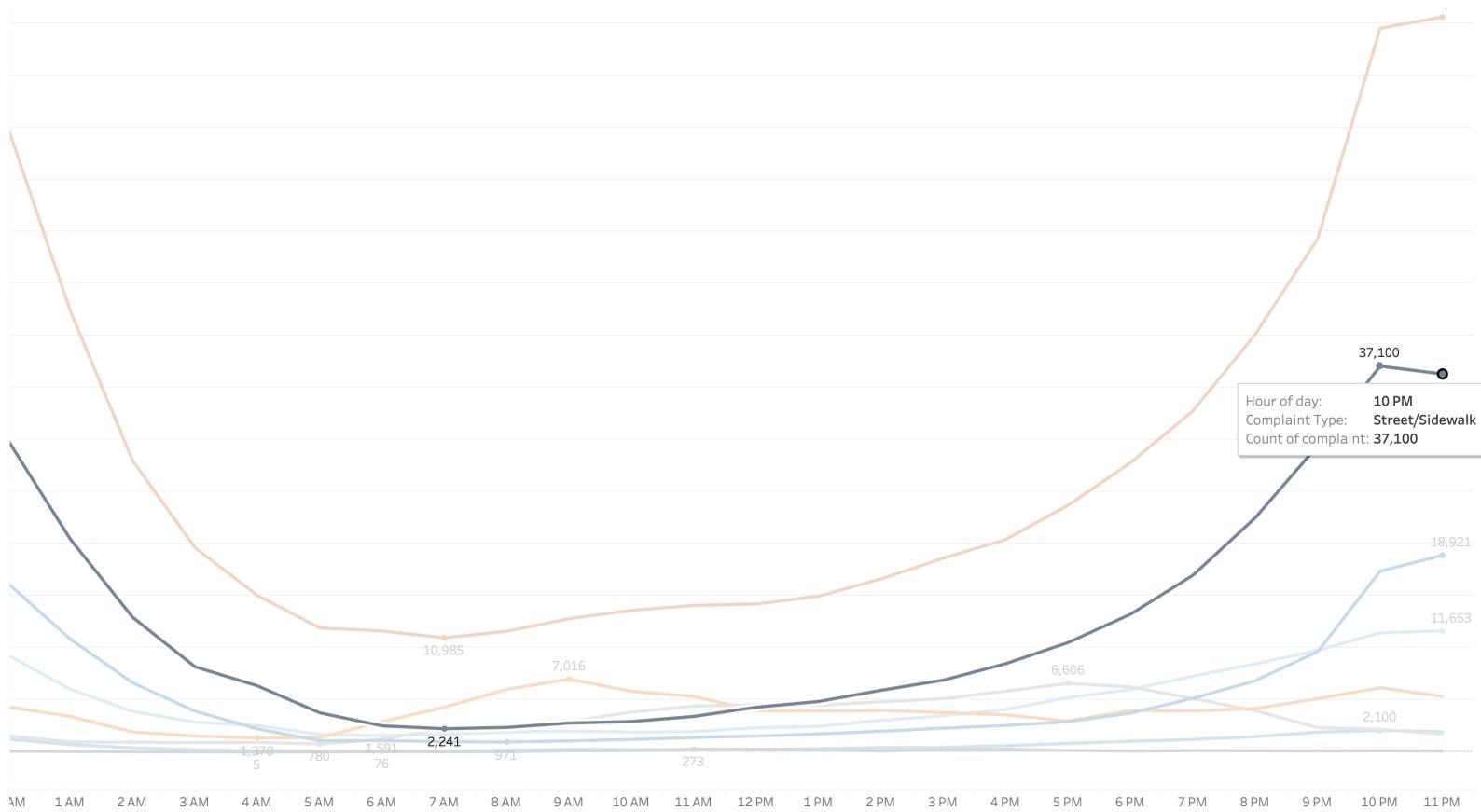
Noise complaints by hours: Jan 22- Nov 23



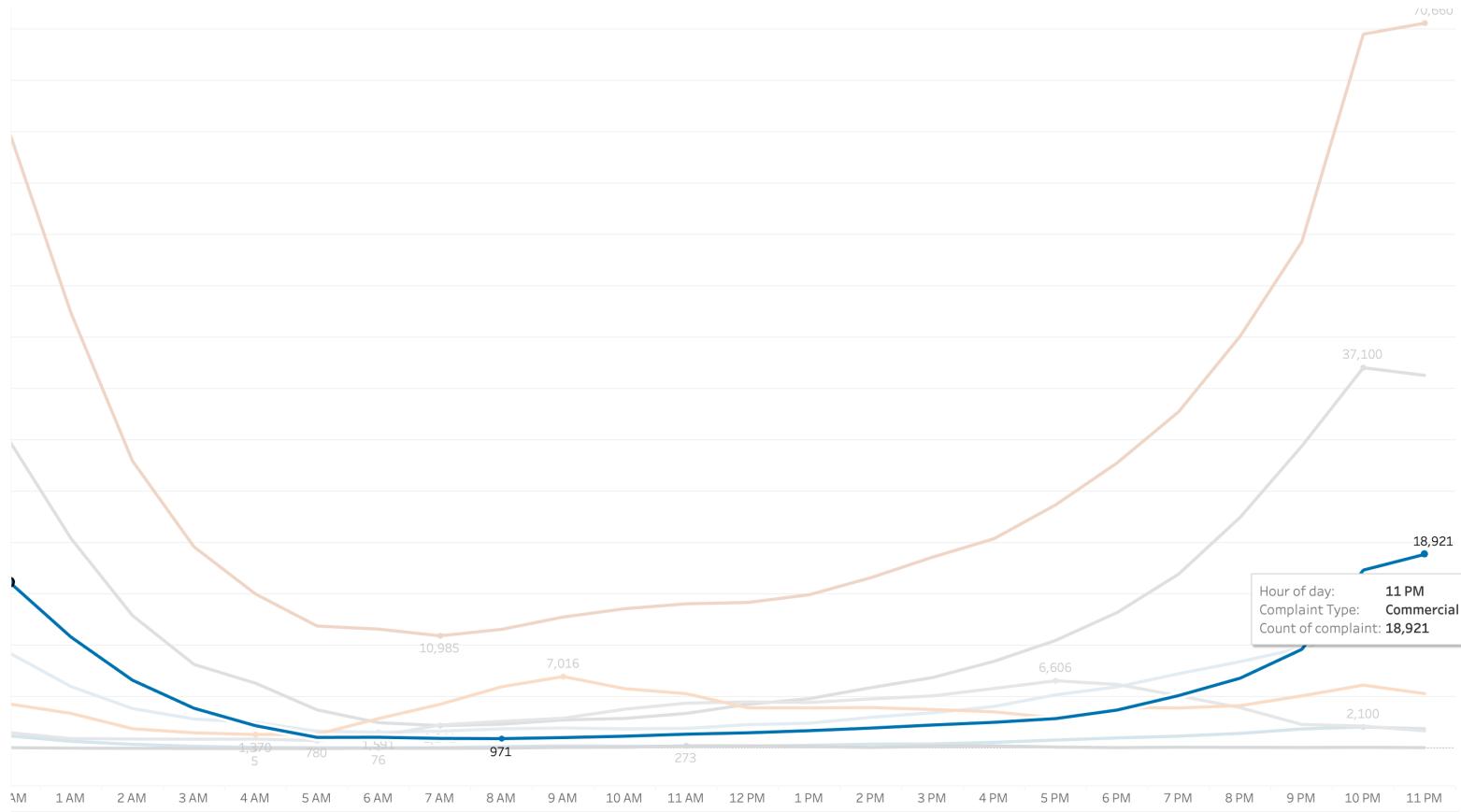
Residential complaints: Jan 22- Nov 23



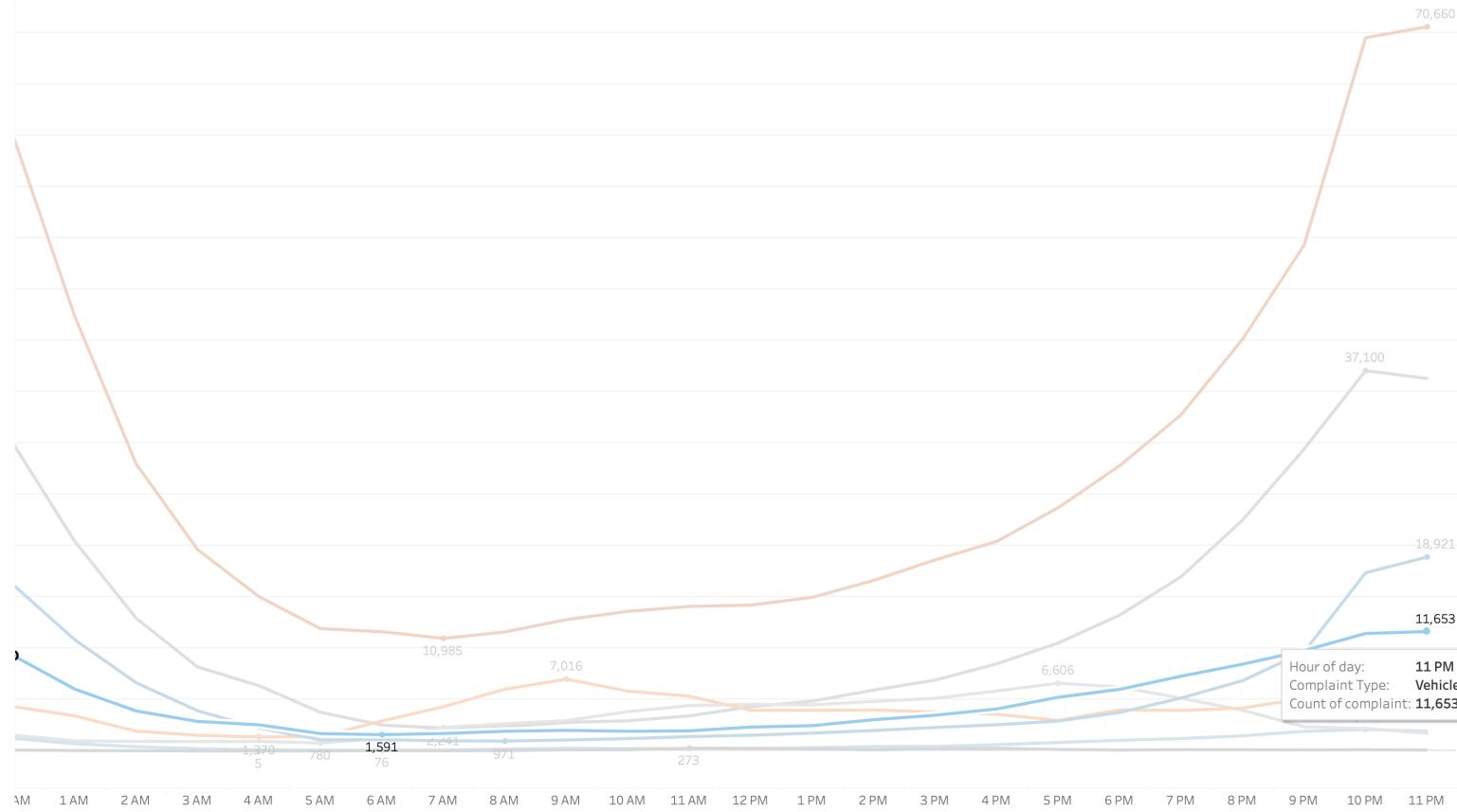
Street/sidewalk complaints: Jan 22- Nov 23



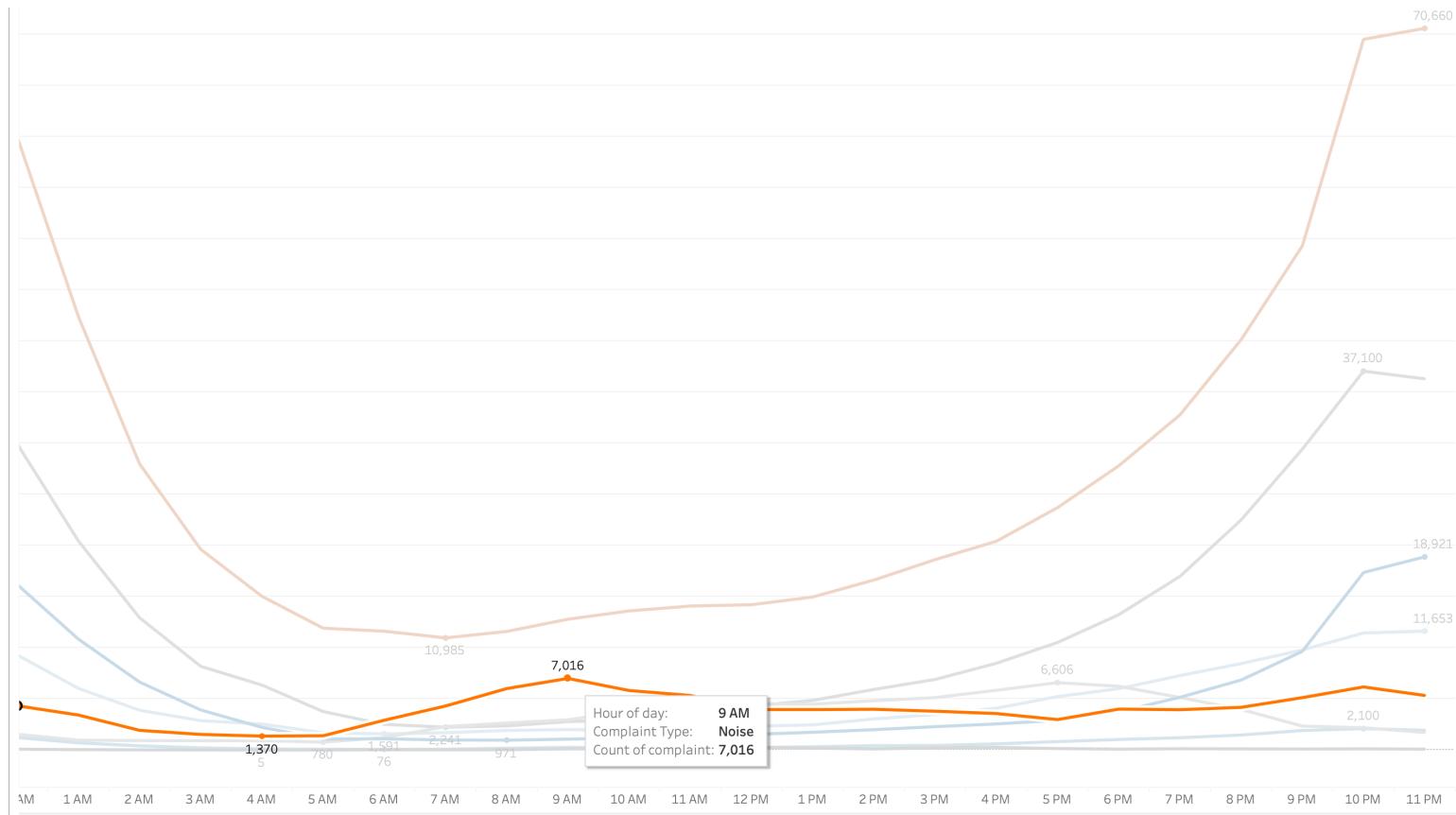
Commercial complaints: Jan 22- Nov 23



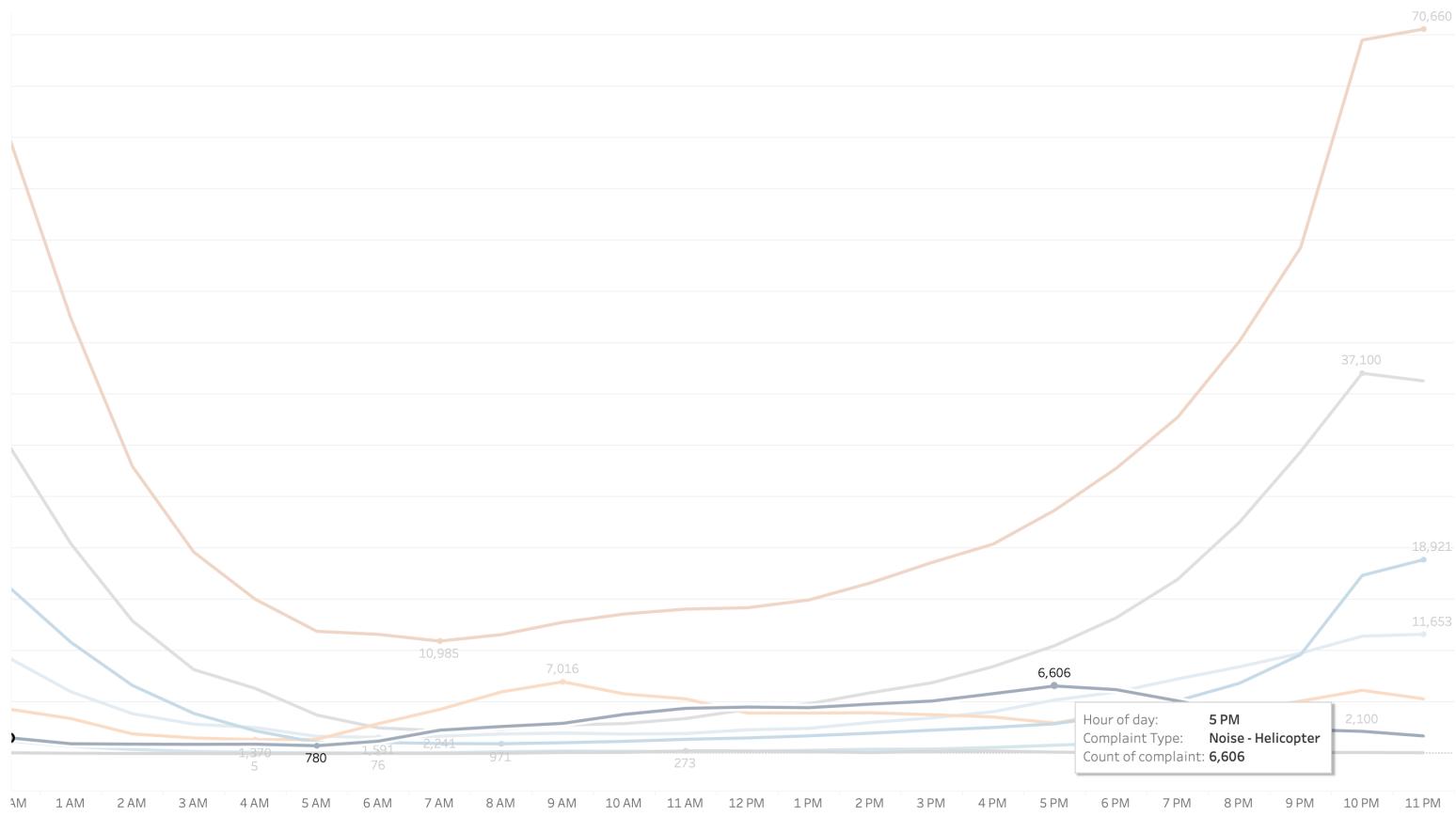
Vehicle complaints: Jan 22- Nov 23



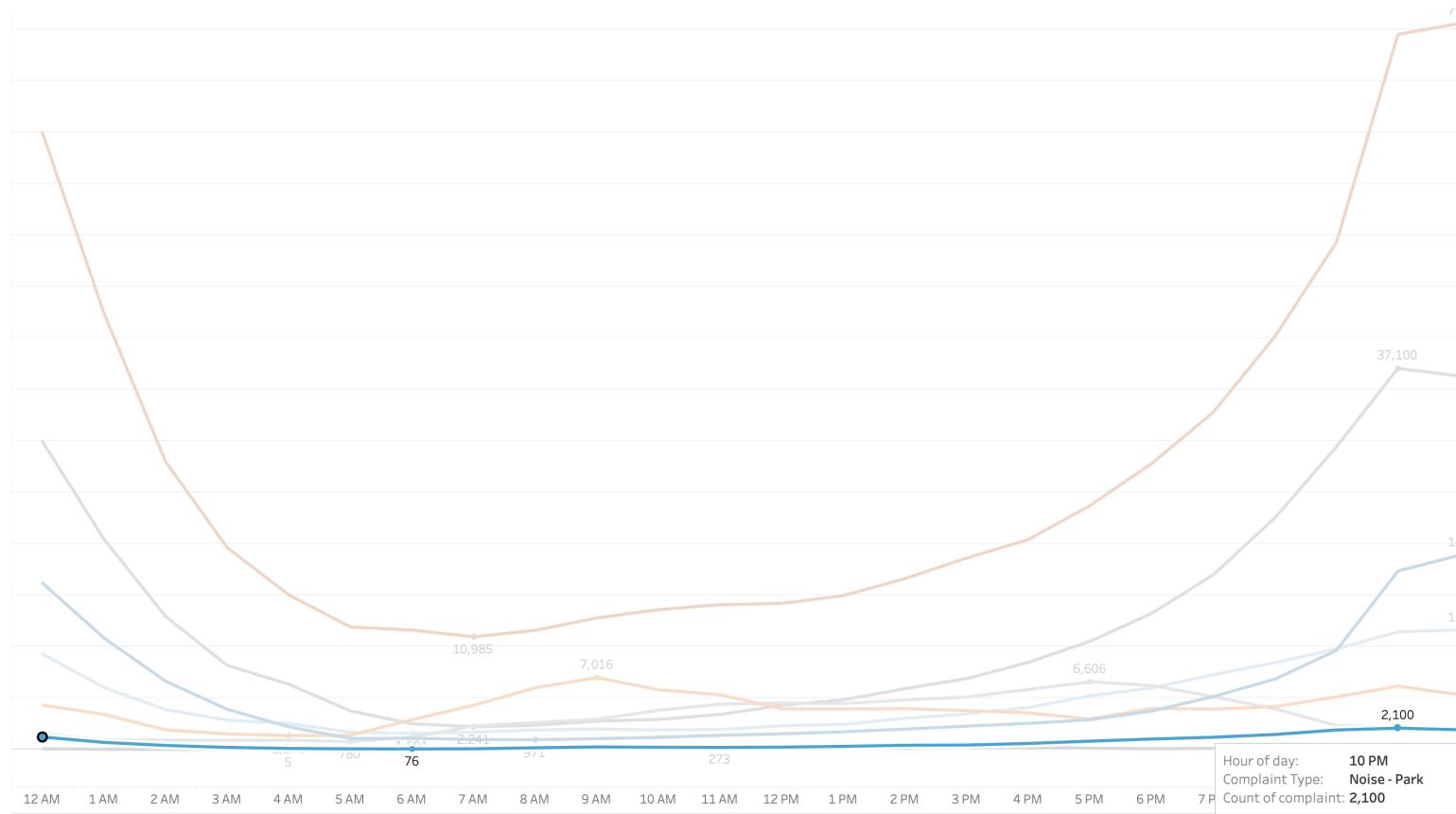
General Noise complaints: Jan 22- Nov 23



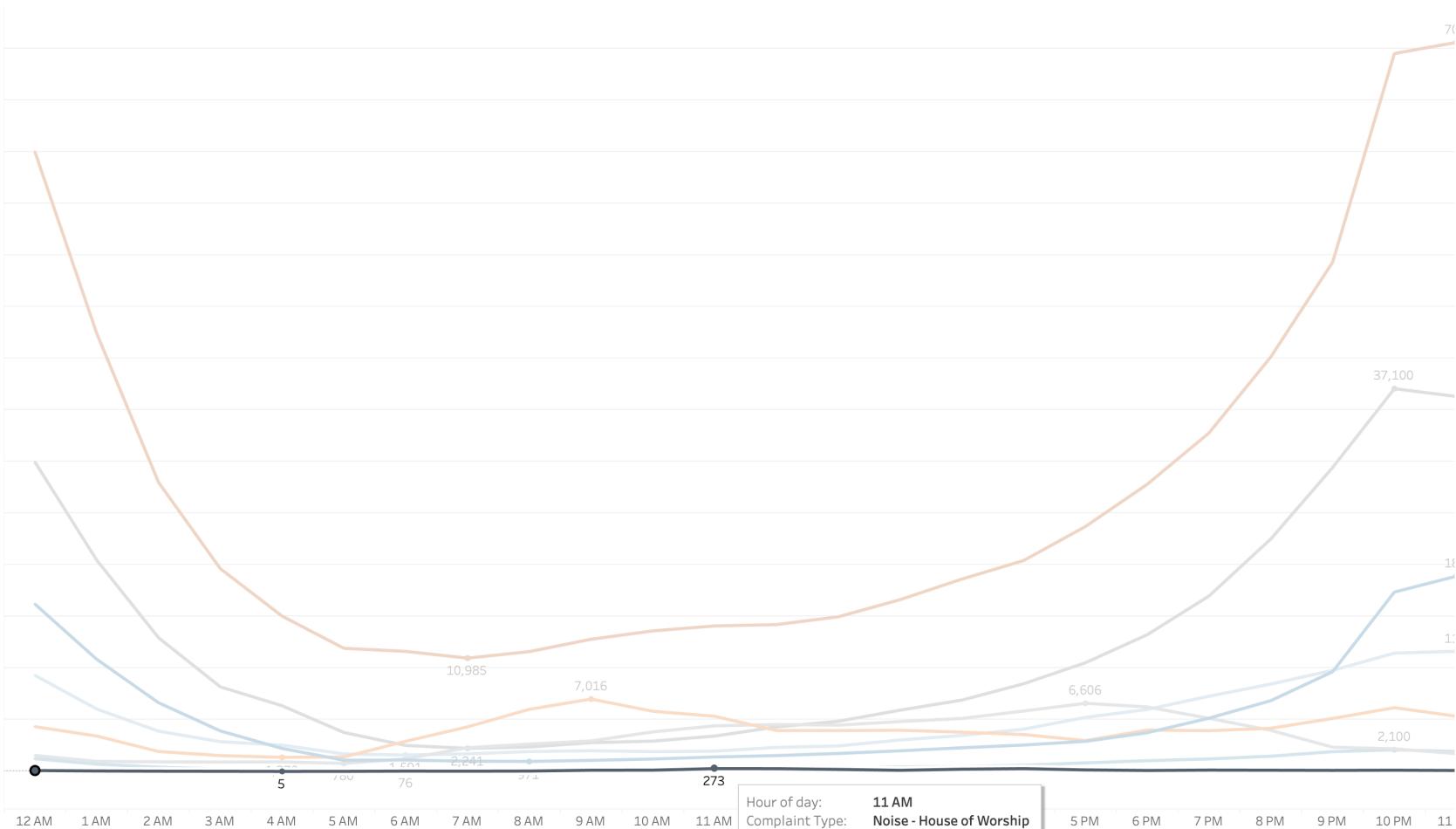
Helicopter Noise complaints: Jan 22- Nov 23



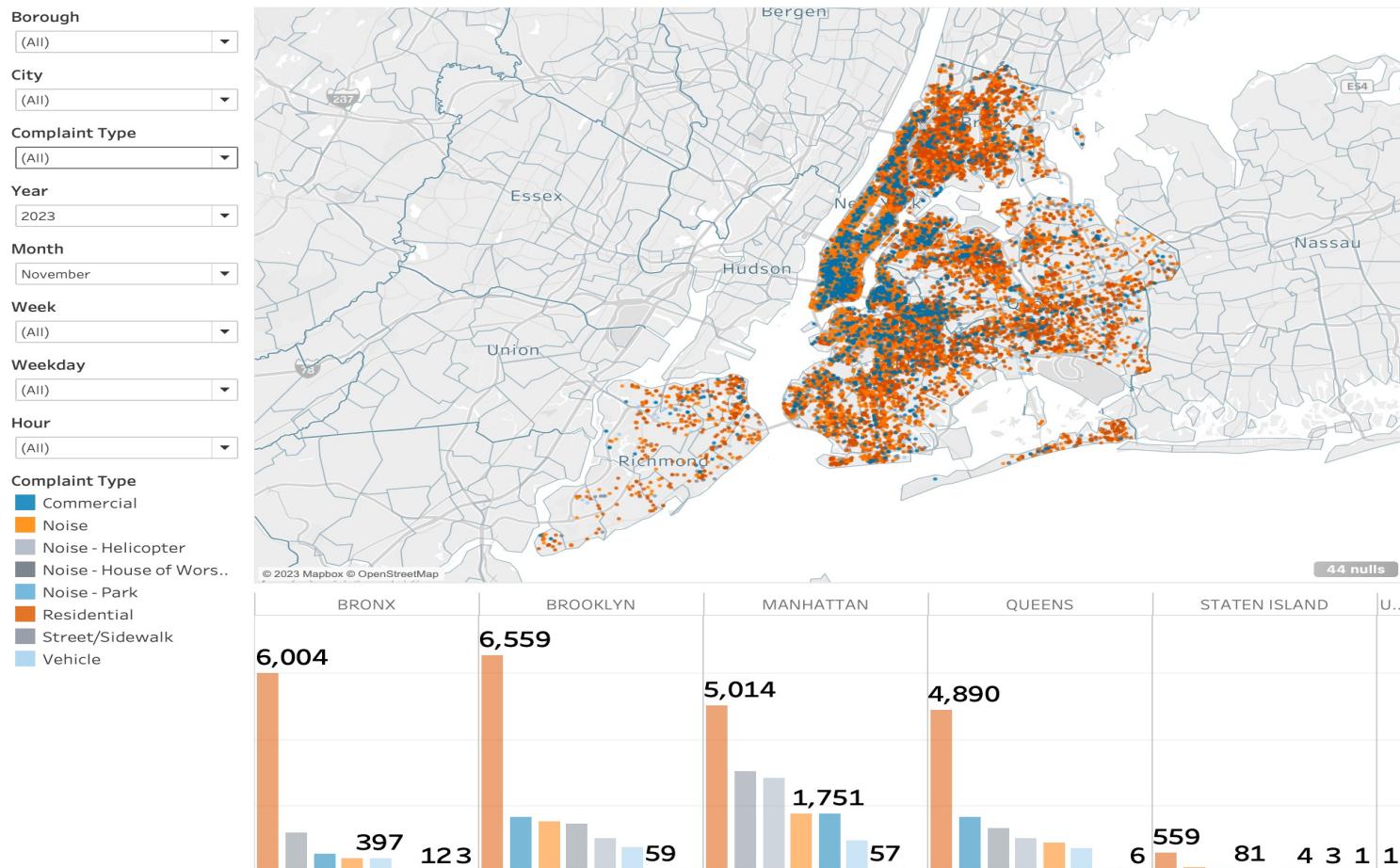
Park Noise complaints: Jan 22- Nov 23



House of worship: Jan 22- Nov 23



Noise complaints by borough: Nov 23



Residential noise

Borough

City

Complaint Type

Year

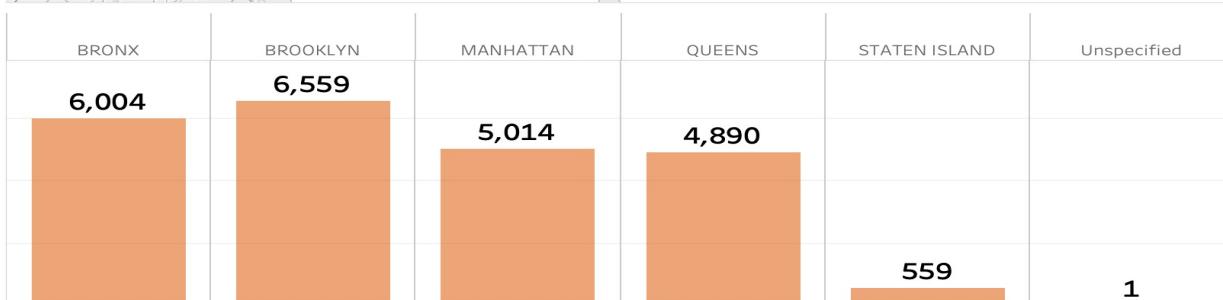
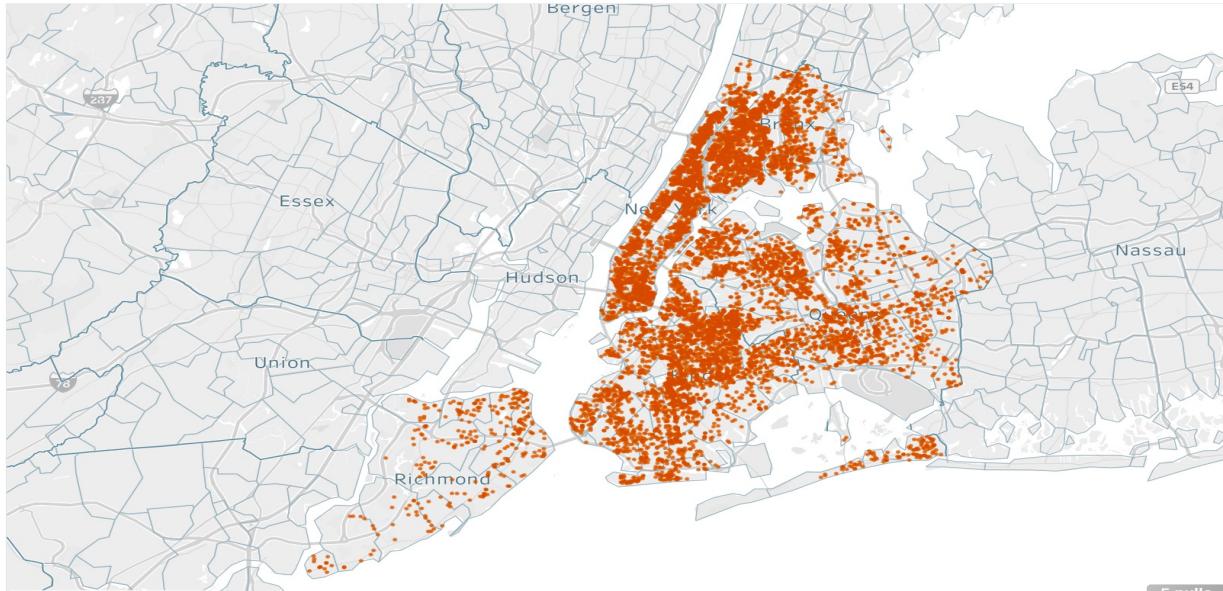
Month

Week

Weekday

Hour

Complaint Type
 Residential



Street/sidewalk

Borough

City

Complaint Type

Year

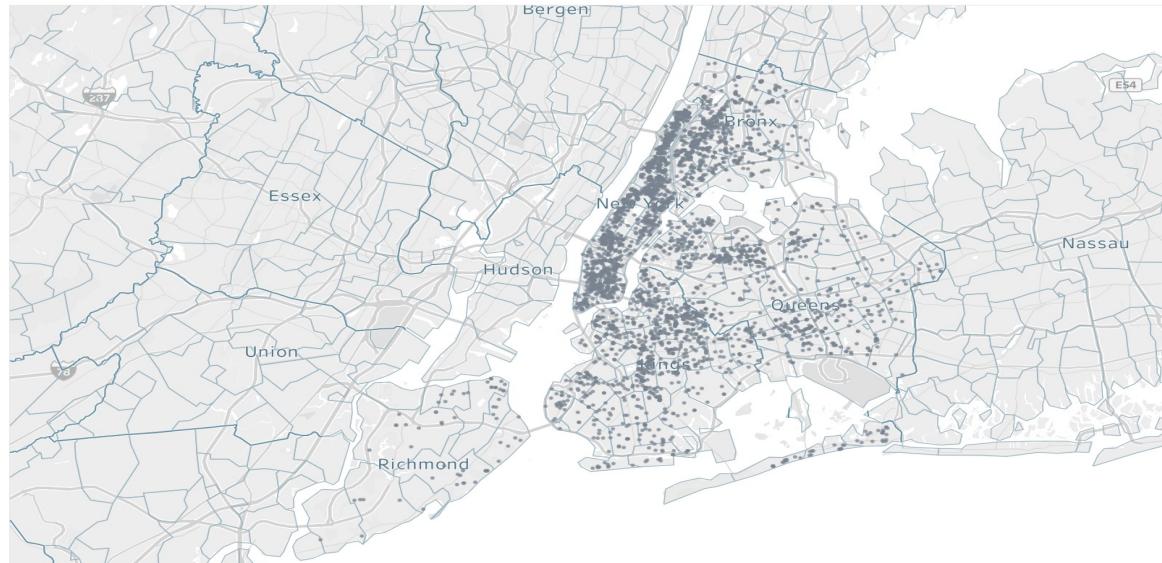
Month

Week

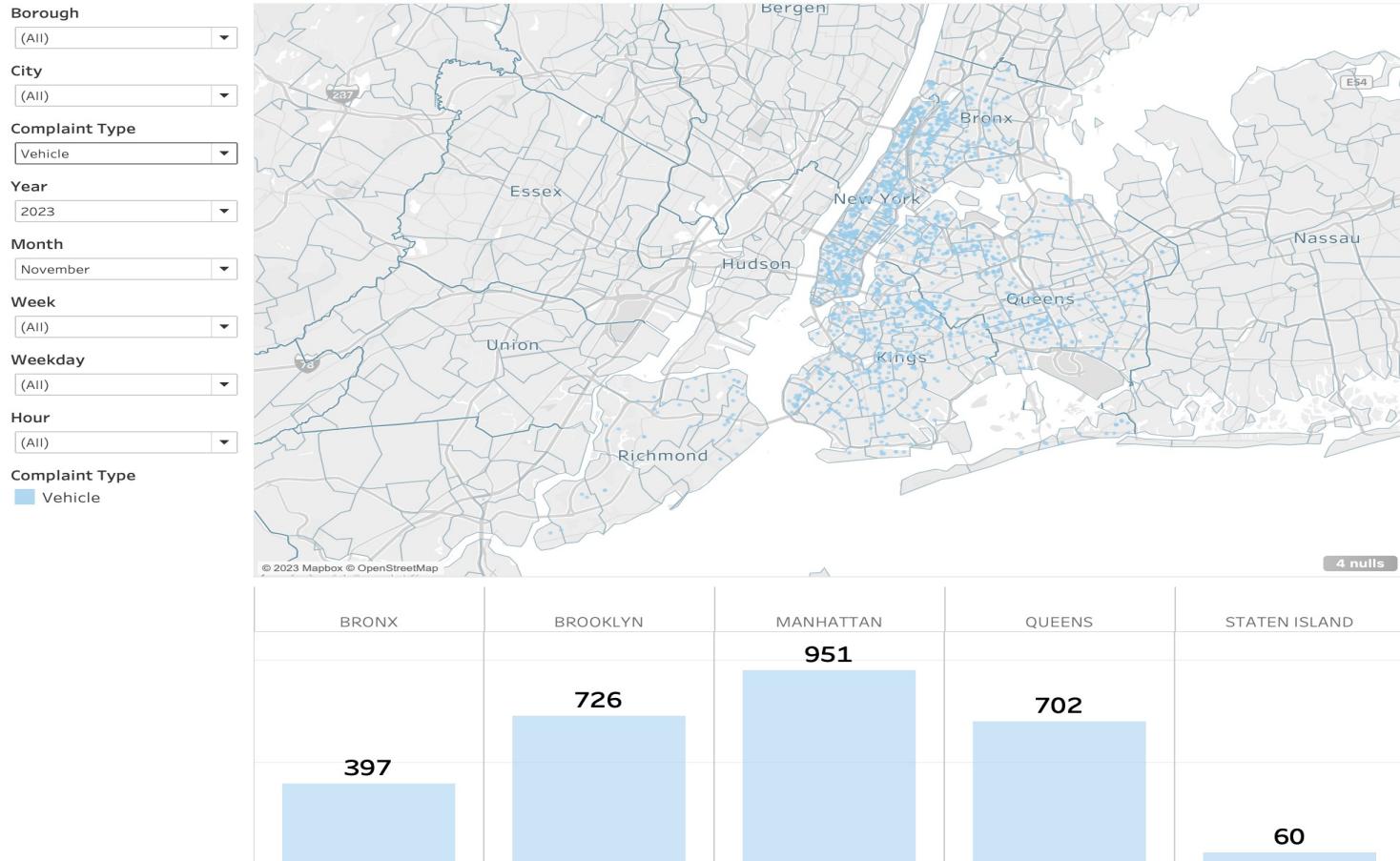
Weekday

Hour

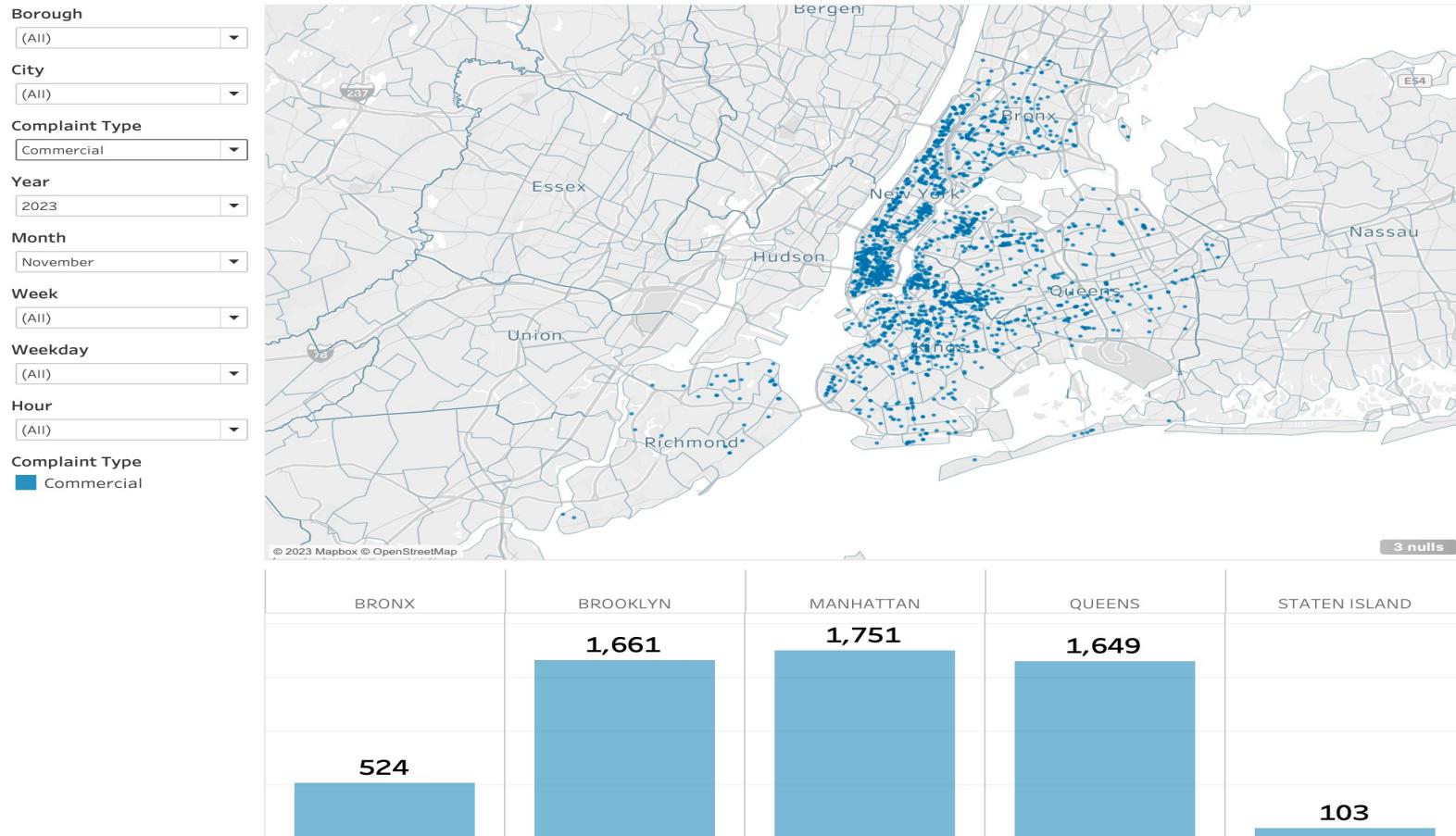
Complaint Type
■ Street/Sidewalk



Vehicle noise



Commercial noise



Helicopter noise

Borough

City

Complaint Type

Year

Month

Week

Weekday

Hour

Complaint Type



41

1,007

2,830

1,015

3

General noise

Borough

City

Complaint Type

Year

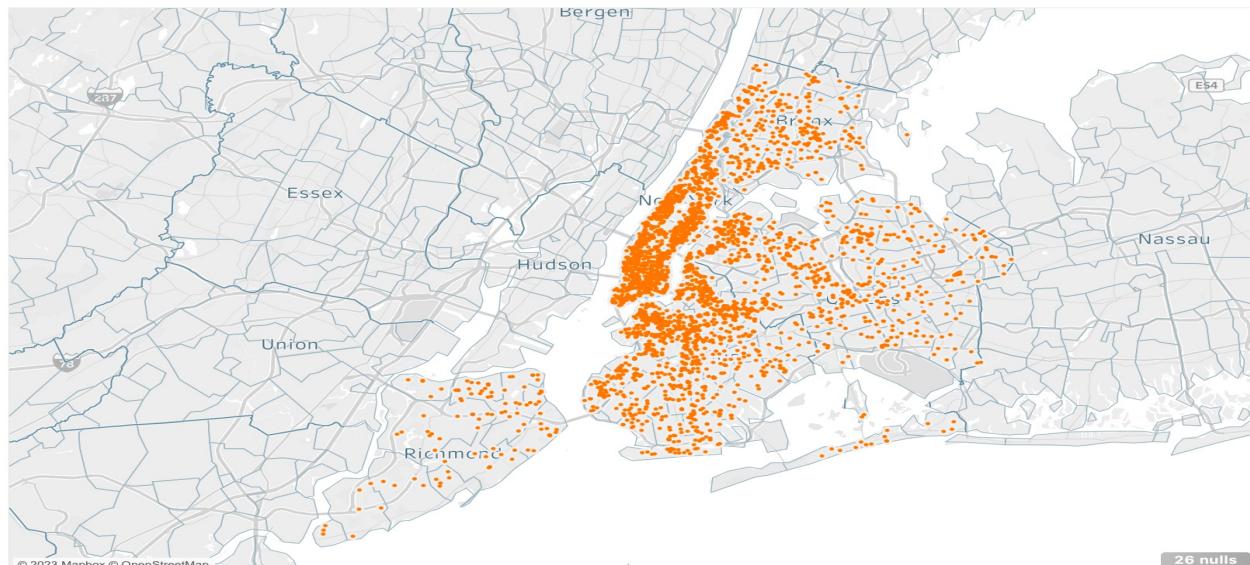
Month

Week

Weekday

Hour

Complaint Type
■ Noise



Park noise

Borough
[All] ▾

City
[All] ▾

Complaint Type
Noise - Park ▾

Year
2023 ▾

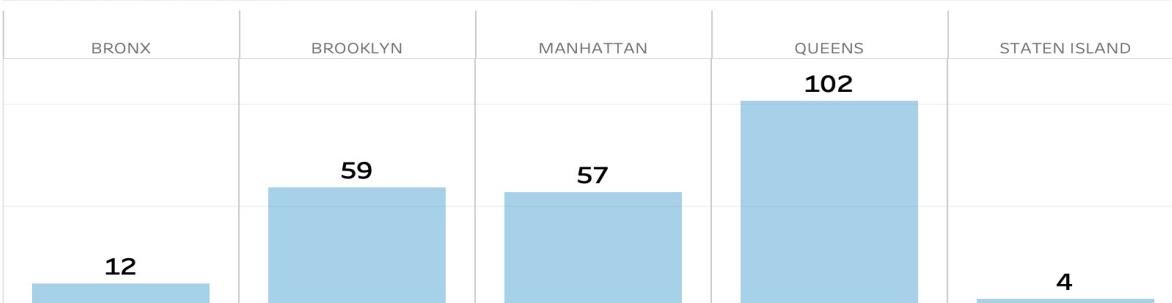
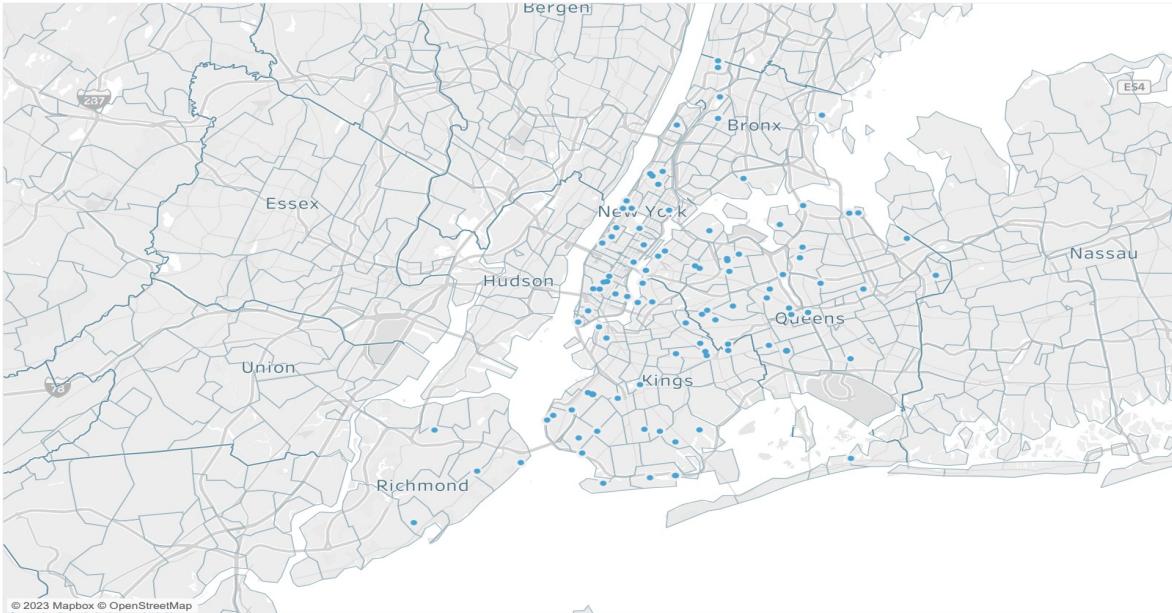
Month
November ▾

Week
[All] ▾

Weekday
[All] ▾

Hour
[All] ▾

Complaint Type
Noise - Park



House of worship

Borough
(All)

City
(All)

Complaint Type
Noise - House of Worship

Year
2023

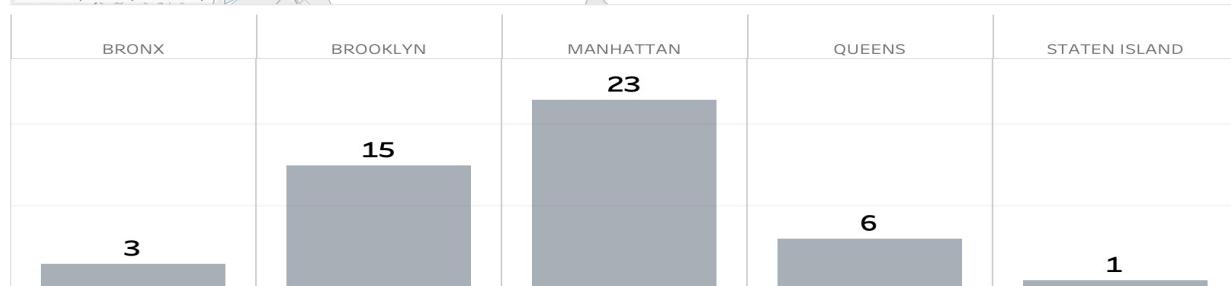
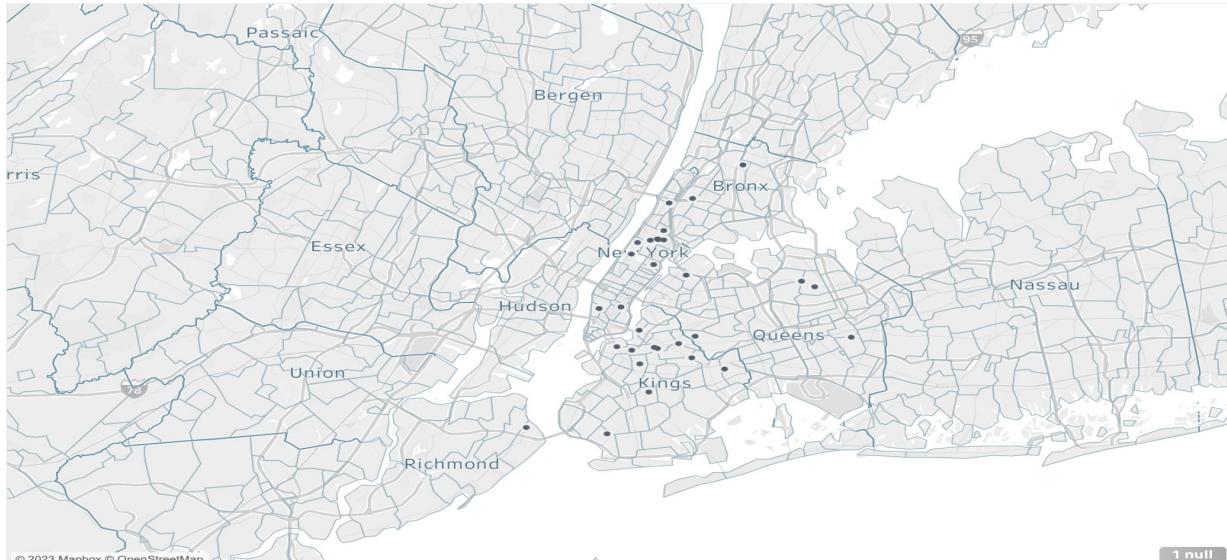
Month
November

Week
(All)

Weekday
(All)

Hour
(All)

Complaint Type
Noise - House of Wors...



Complaint subcategories

Borough
All

City
All

Complaint Type
All

Year
2023

Month
November

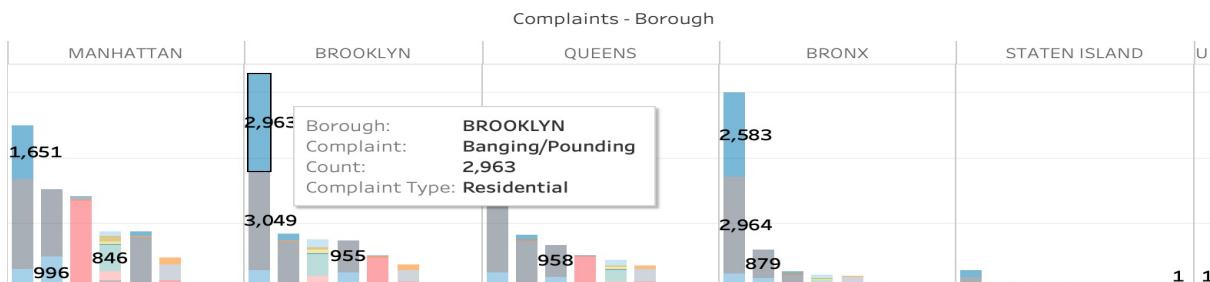
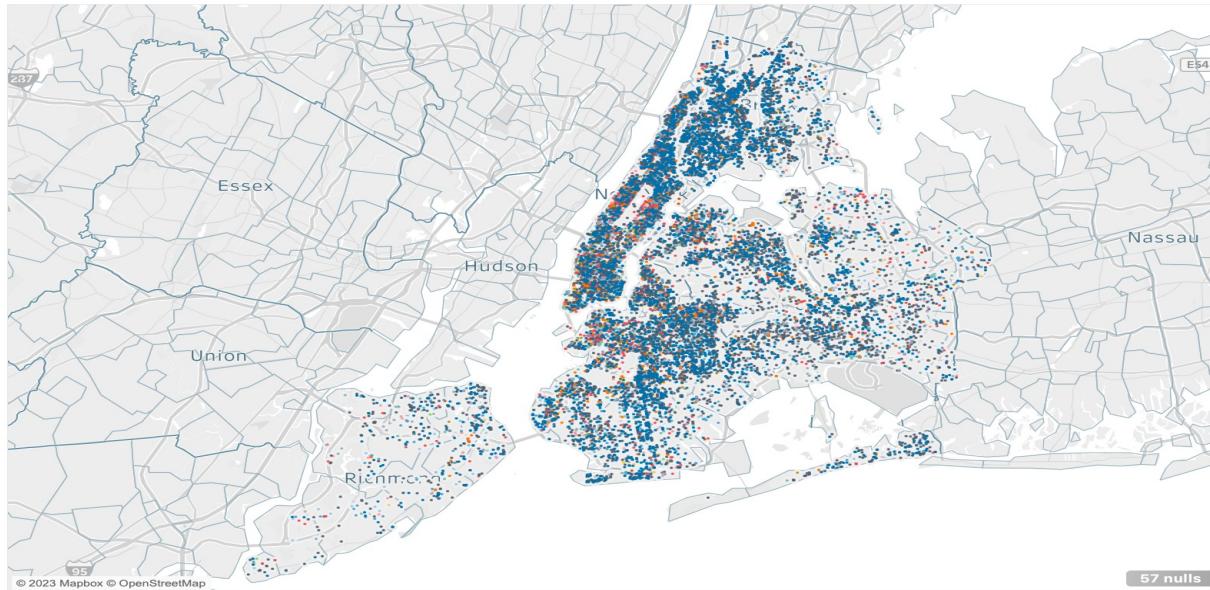
Week
All

Weekday
All

Hour
All

Complaint Descriptor

- █ Banging/Pounding
- █ Car/Truck Horn
- █ Car/Truck Music
- █ Engine Idling
- █ Loud Music/Party
- █ Loud Talking
- █ Loud Television
- █ News Gathering
- █ Noise, Barking Dog (N..)
- █ Noise, Ice Cream Truc..
- █ Noise, Other Animals (..)
- █ Noise: air condition/v..
- █ Noise: Alarms (NR3)
- █ Noise: Boat(Engine,M..)
- █ Noise: Construction B..
- █ Noise: Construction E..
- █ Noise: Jack Hammerin..
- █ Noise: lawn care equi..



Residential noise subcategories

Borough

City

Complaint Type

Year

Month

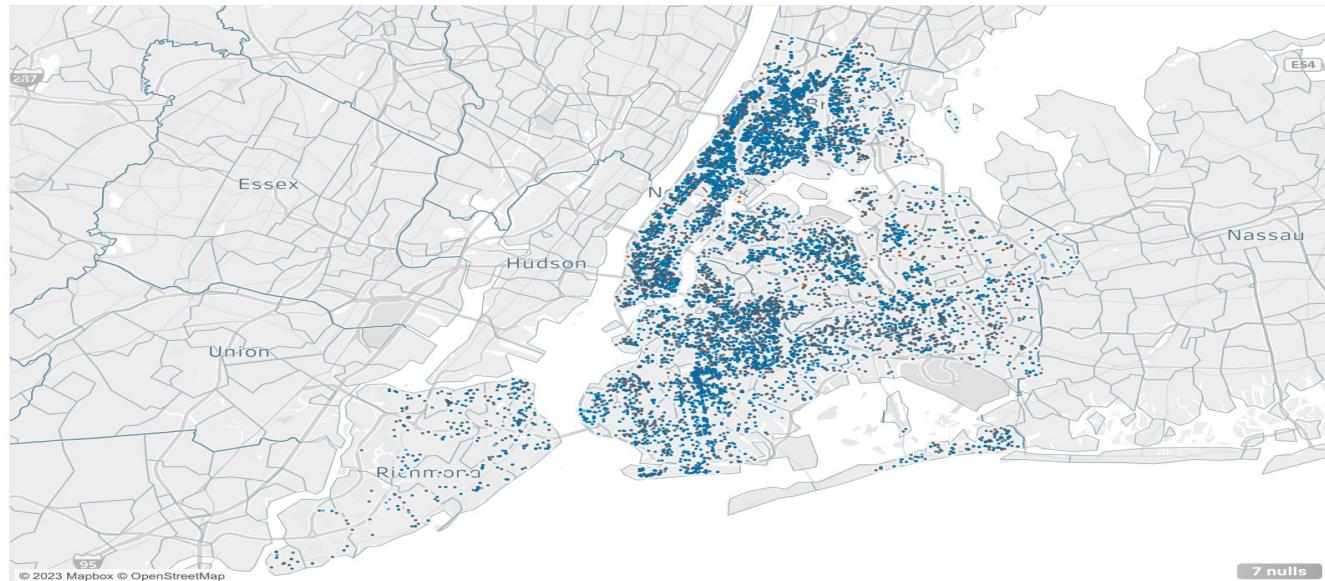
Week

Weekday

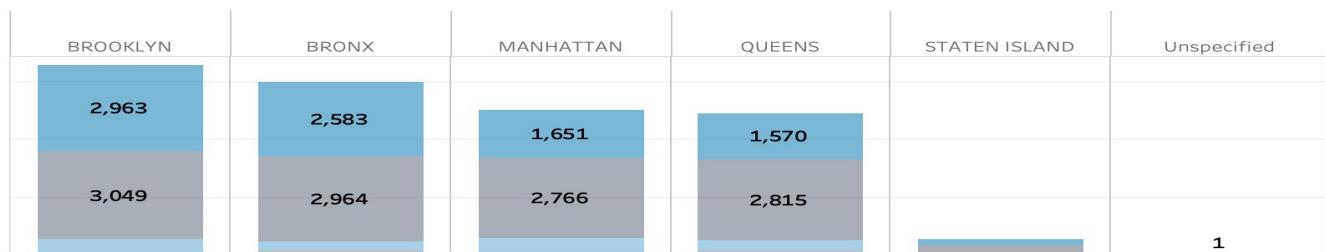
Hour
(All)

Complaint Descriptor

- Banging/Pounding
- Loud Music/Party
- Loud Talking
- Loud Television



Complaints - Borough



Street/sidewalk noise subcategories

Borough
(All)

City
(All)

Complaint Type
Street/Sidewalk

Year
2023

Month
November

Week
(All)

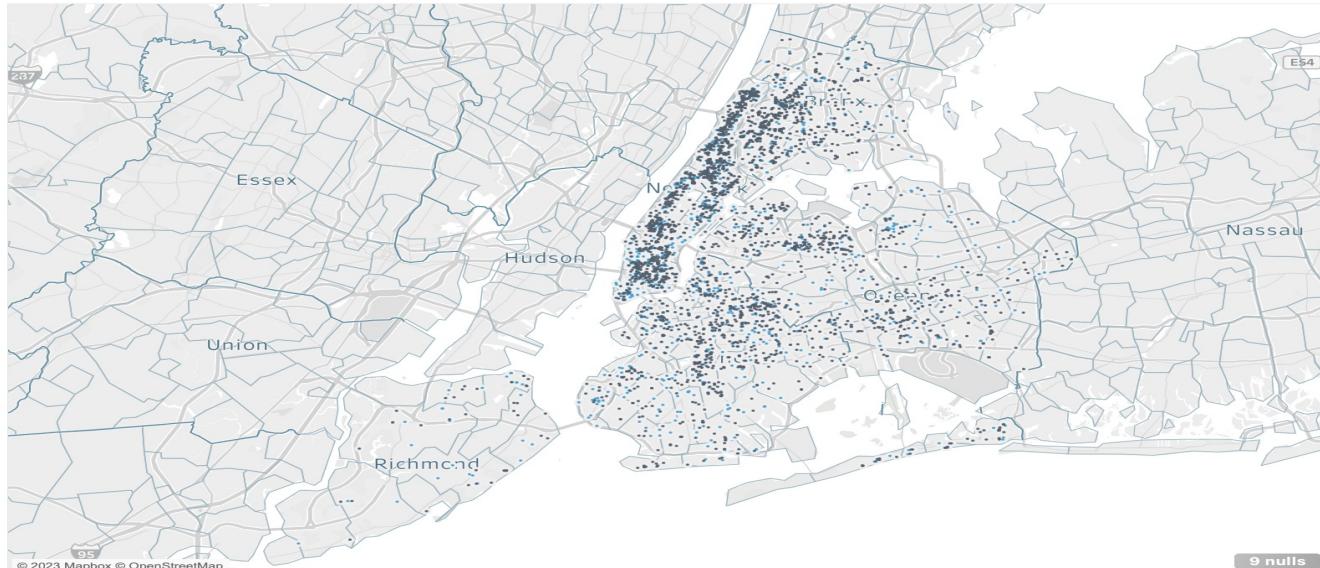
Weekday
(All)

Hour
(All)

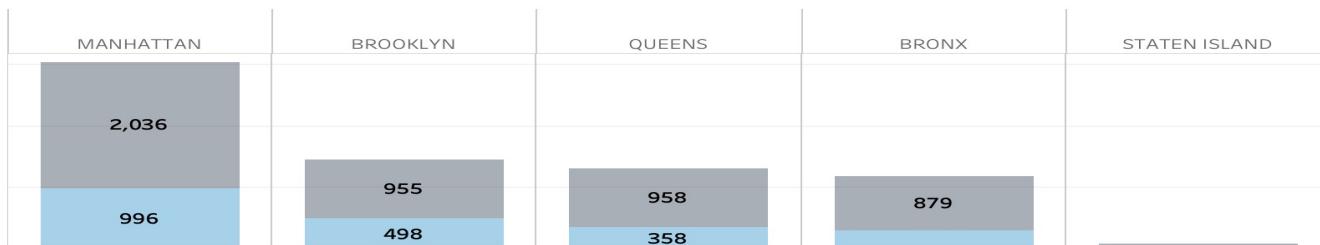
Complaint Descriptor

 Loud Music/Party

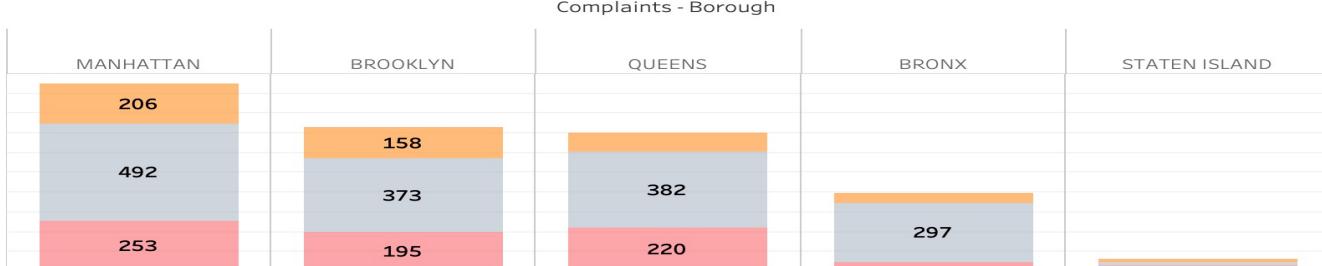
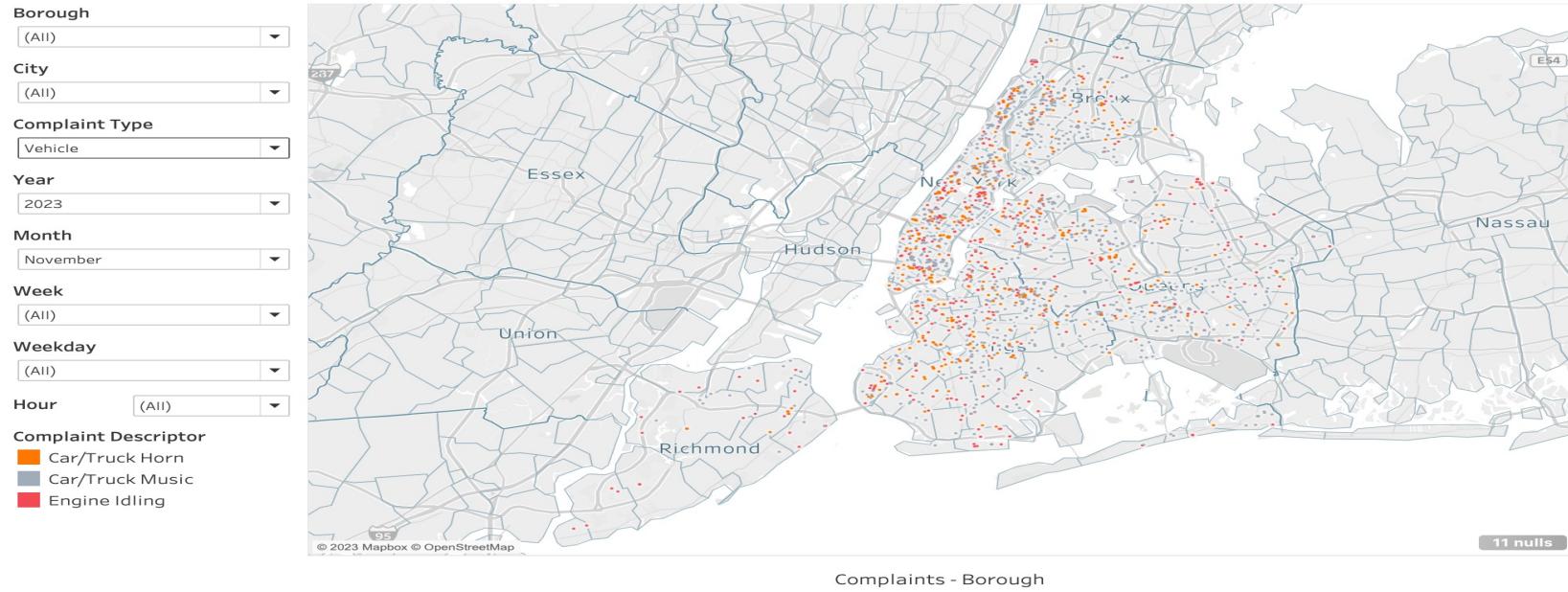
 Loud Talking



Complaints - Borough



Vehicle noise subcategories



Commercial noise subcategories

Borough
(All)

City
(All)

Complaint Type
Commercial

Year
2023

Month
November

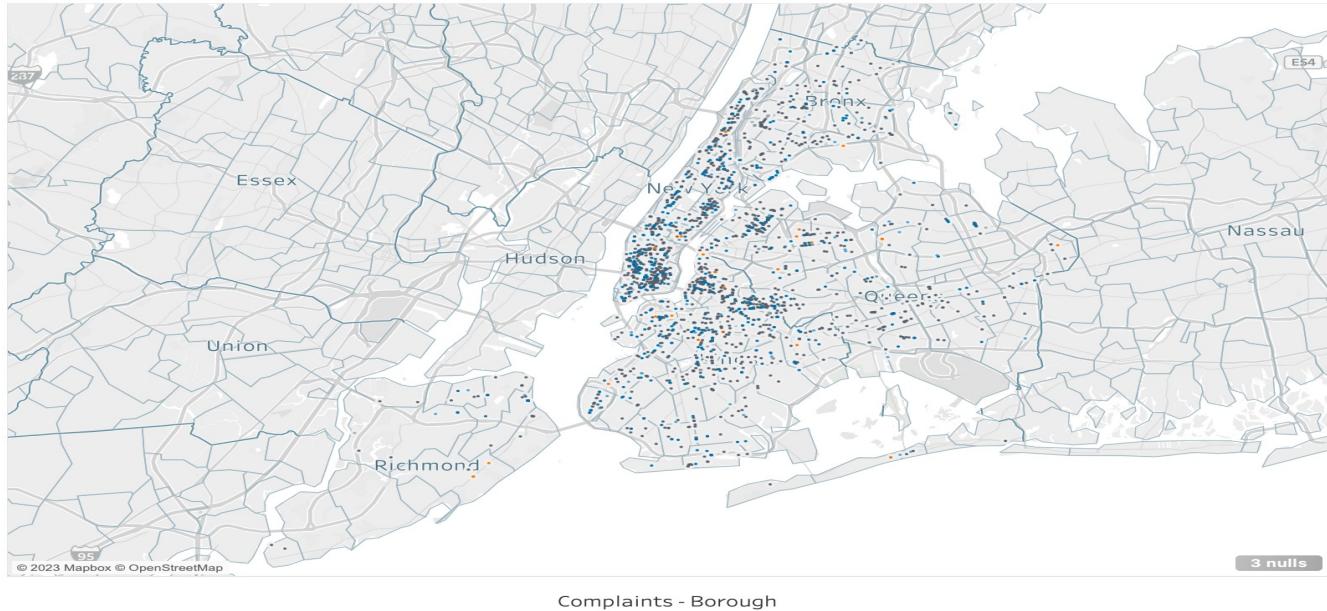
Week
(All)

Weekday
(All)

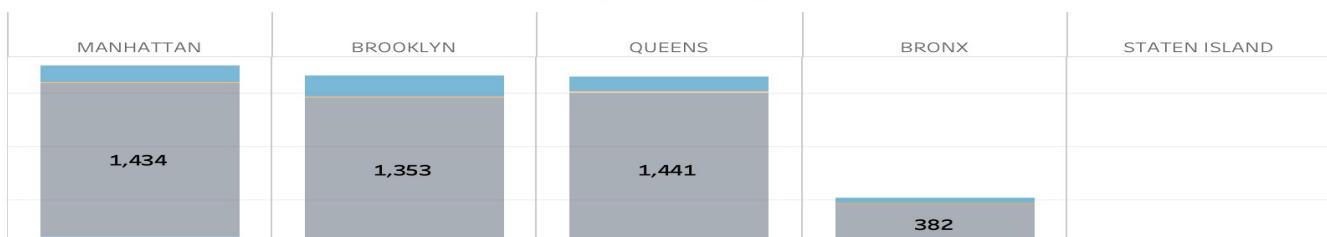
Hour
(All)

Complaint Descriptor

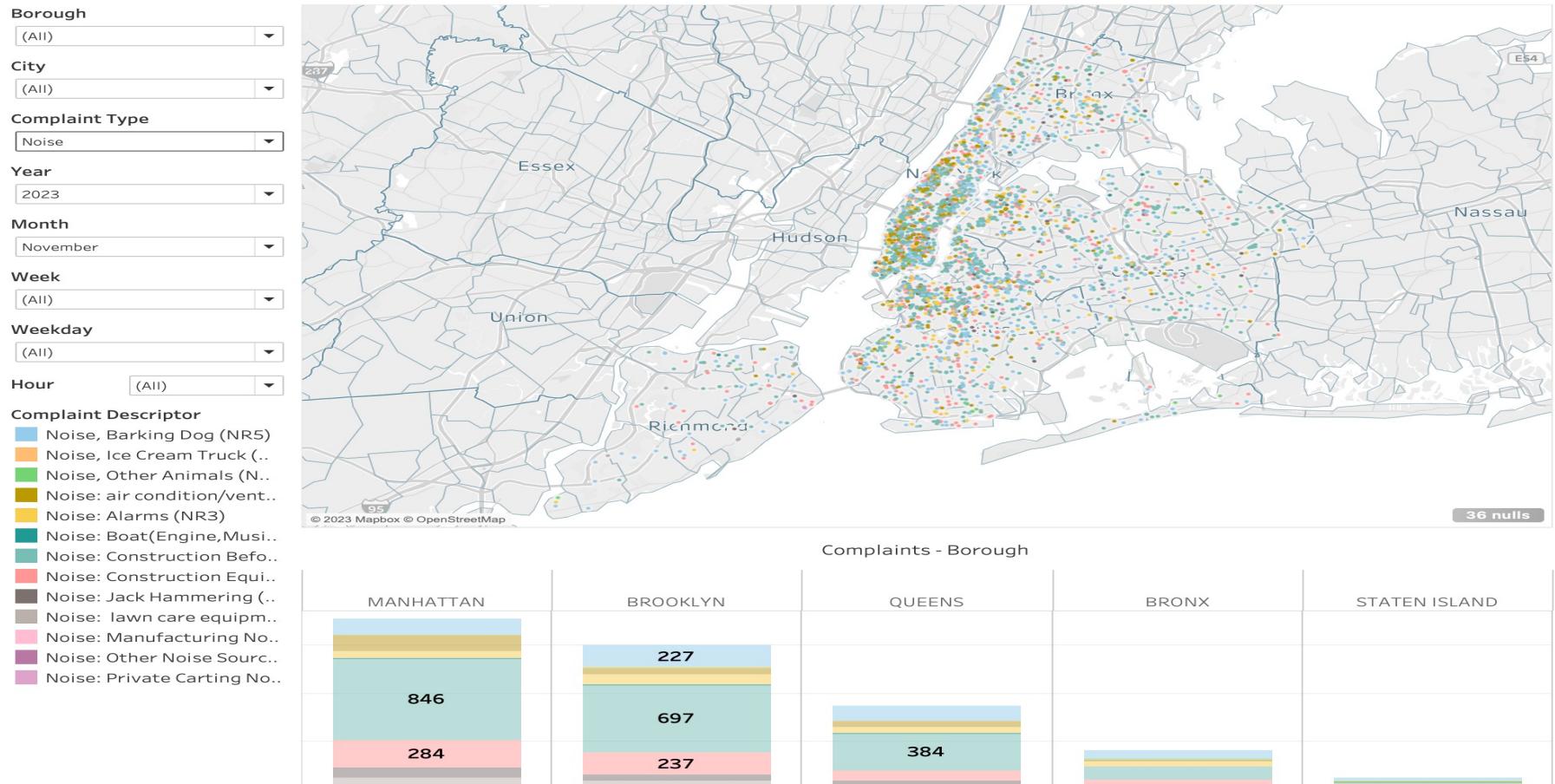
- Banging/Pounding
- Car/Truck Horn
- Car/Truck Music
- Loud Music/Party
- Loud Talking
- Loud Television



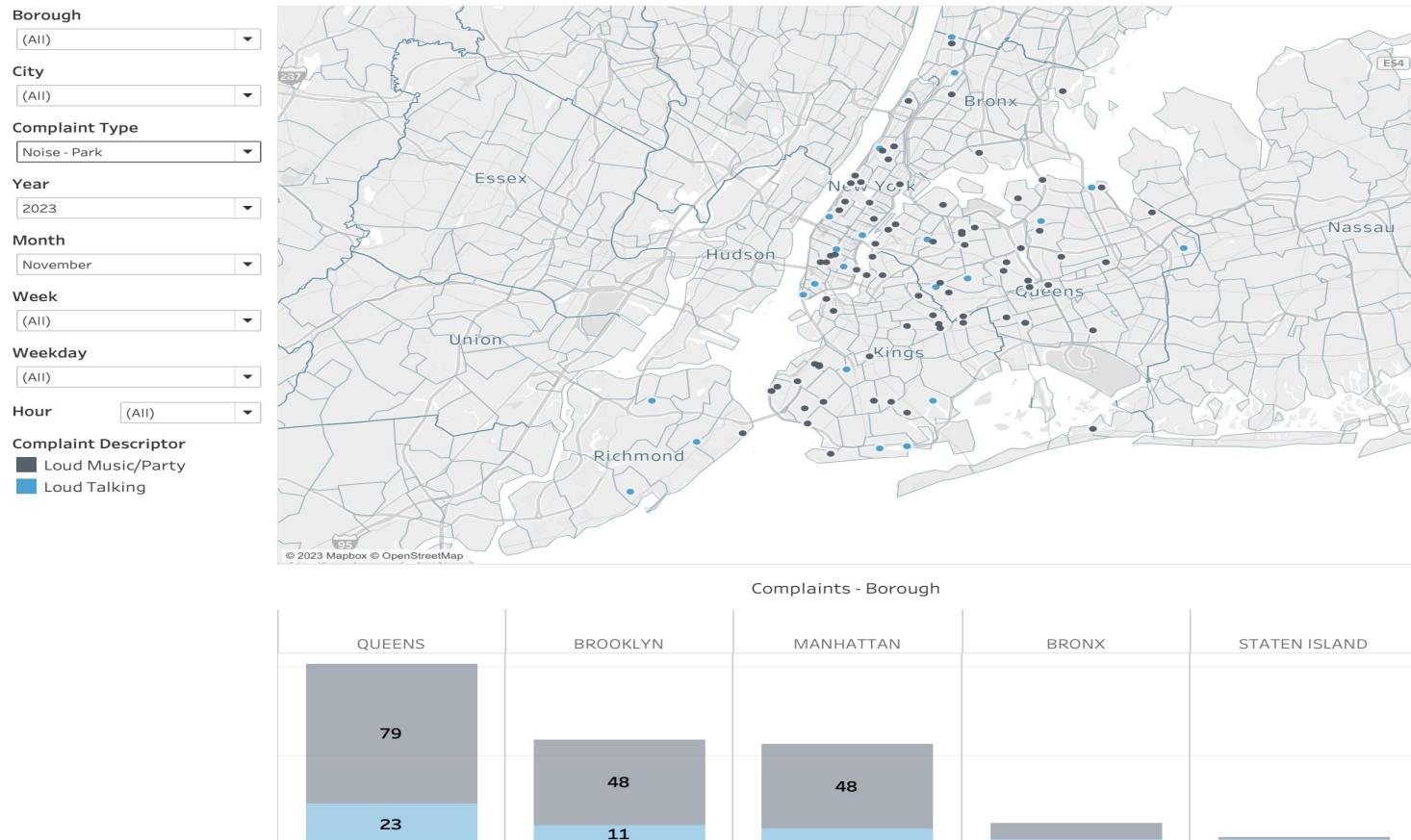
Complaints - Borough



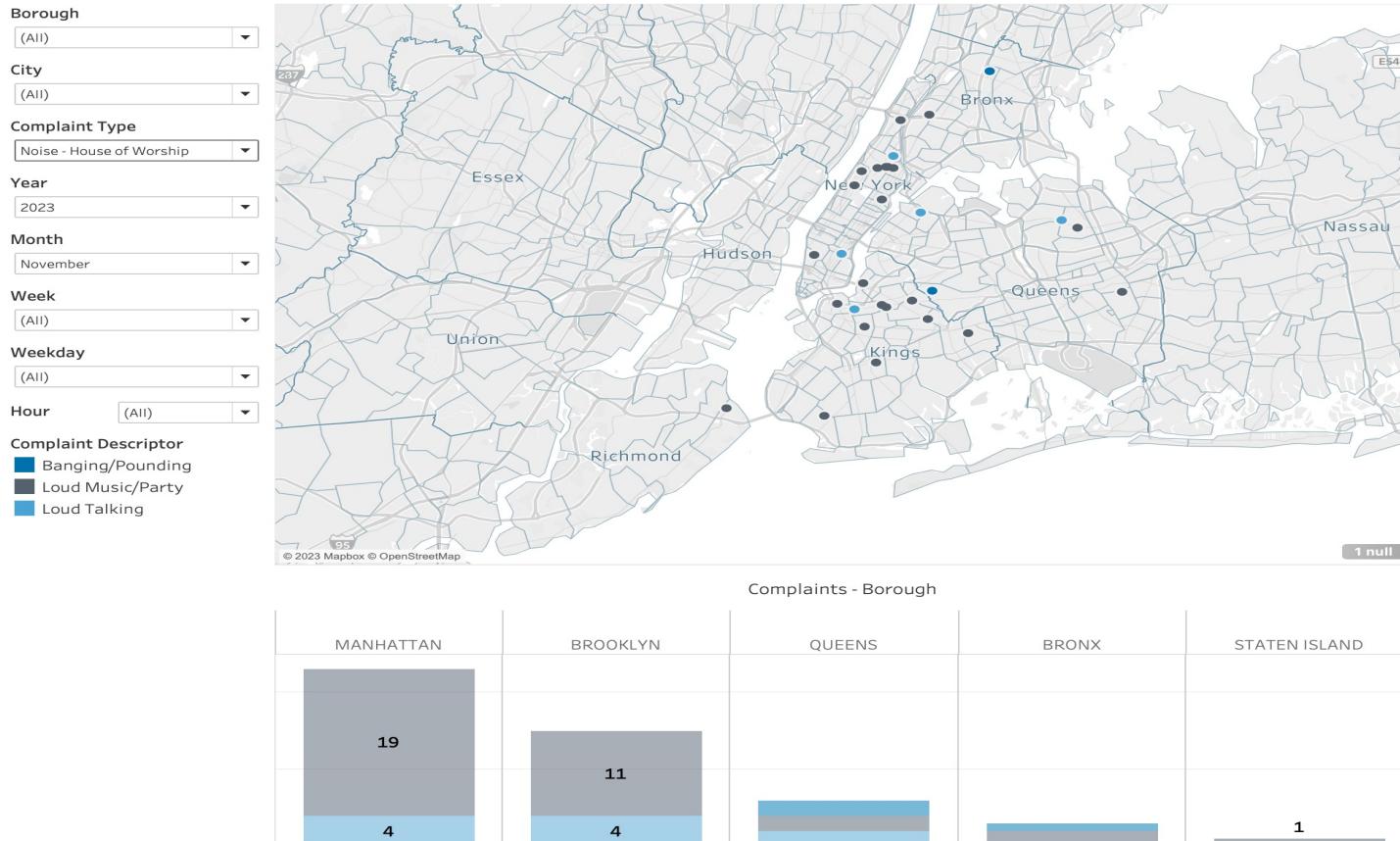
General noise subcategories



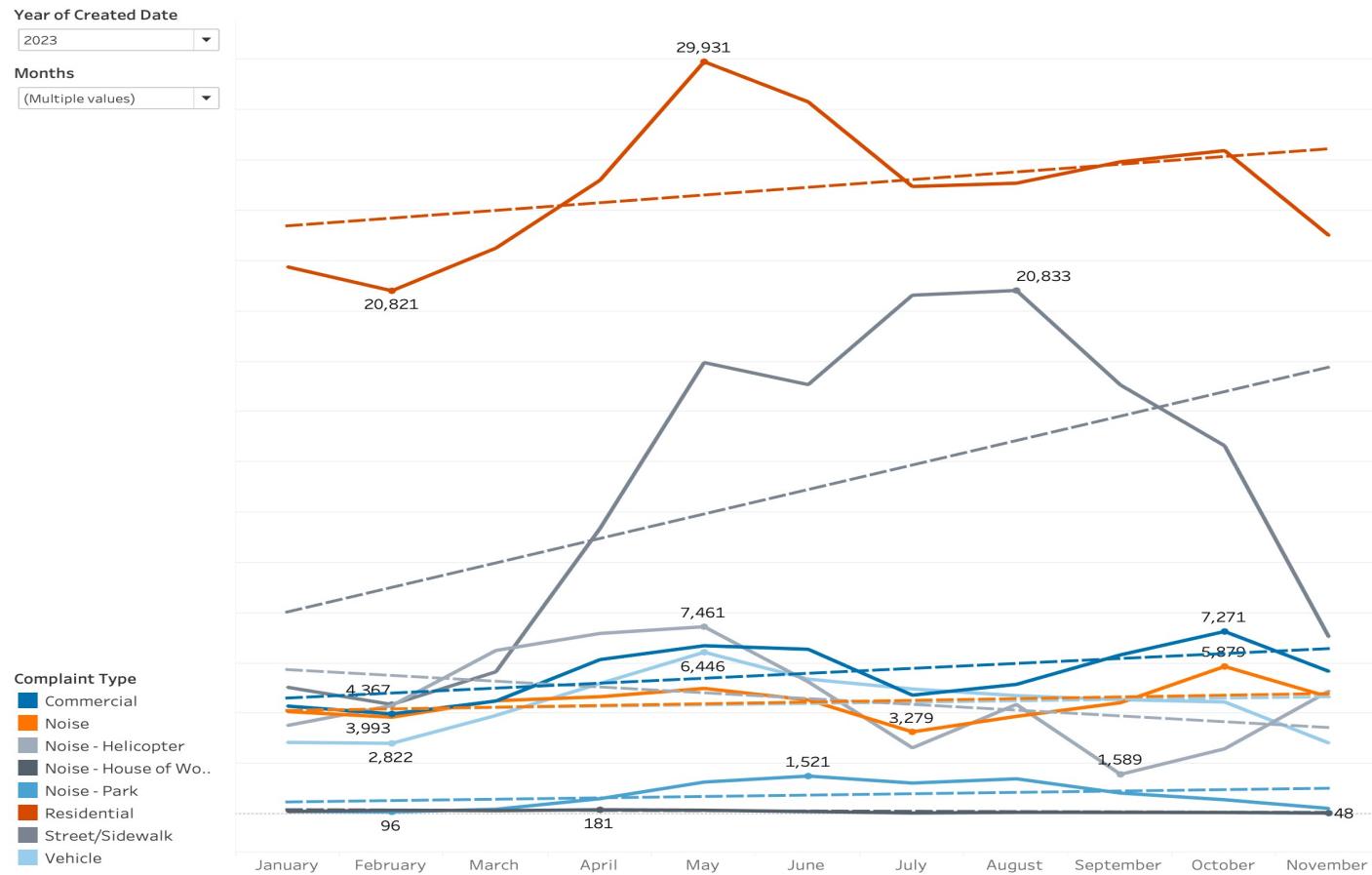
Park noise subcategories



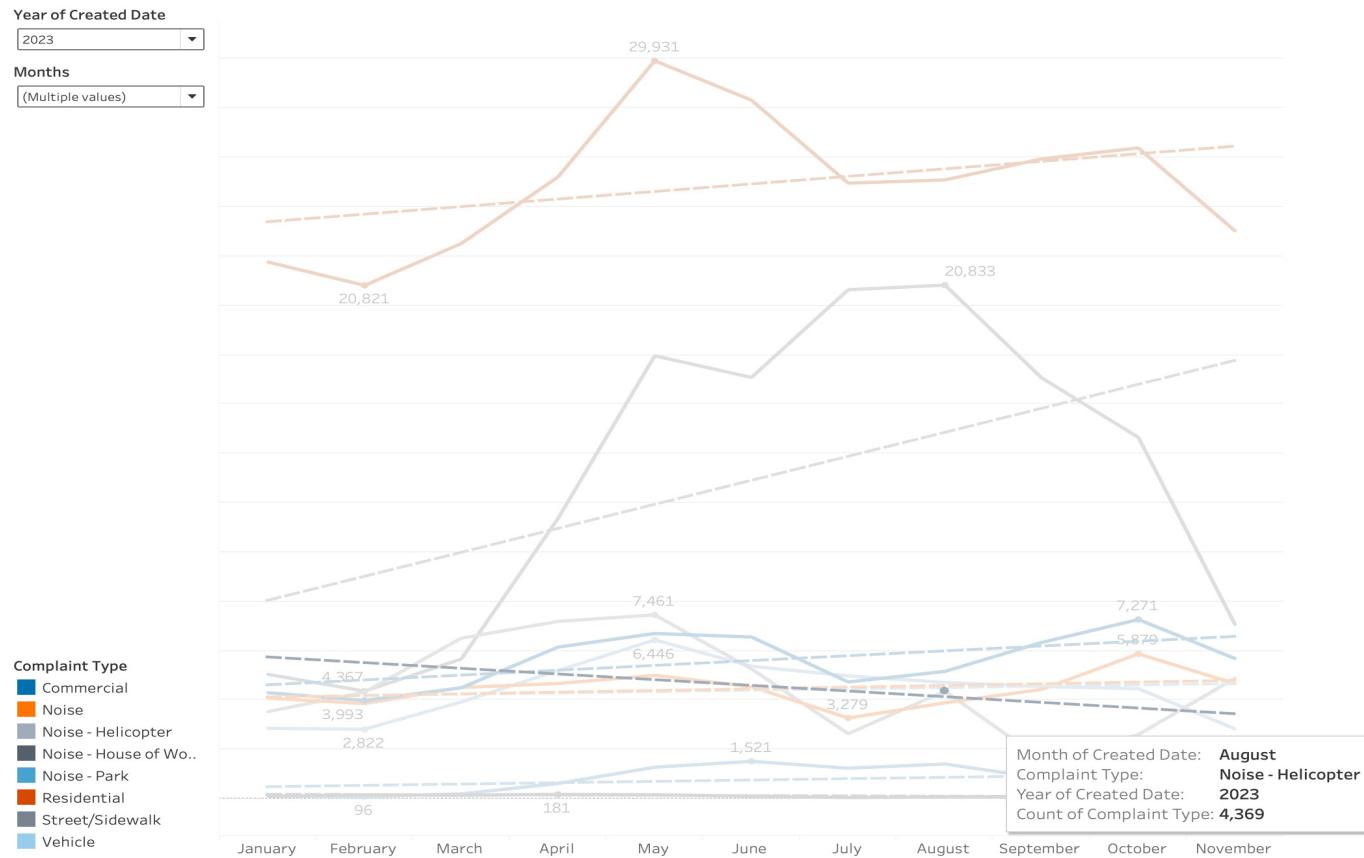
House of worship subcategories



Linear trend over year 2023



Helicopter trend over year 2023



Technology to mitigate noise

- **Network of noise sensors**
- **Stop the noise act**
 - Construction
 - Pets
 - Vehicles
 - No jingles - food vehicles
 - Music, TV
 - Power tools

Drive by data driven insights - December 23

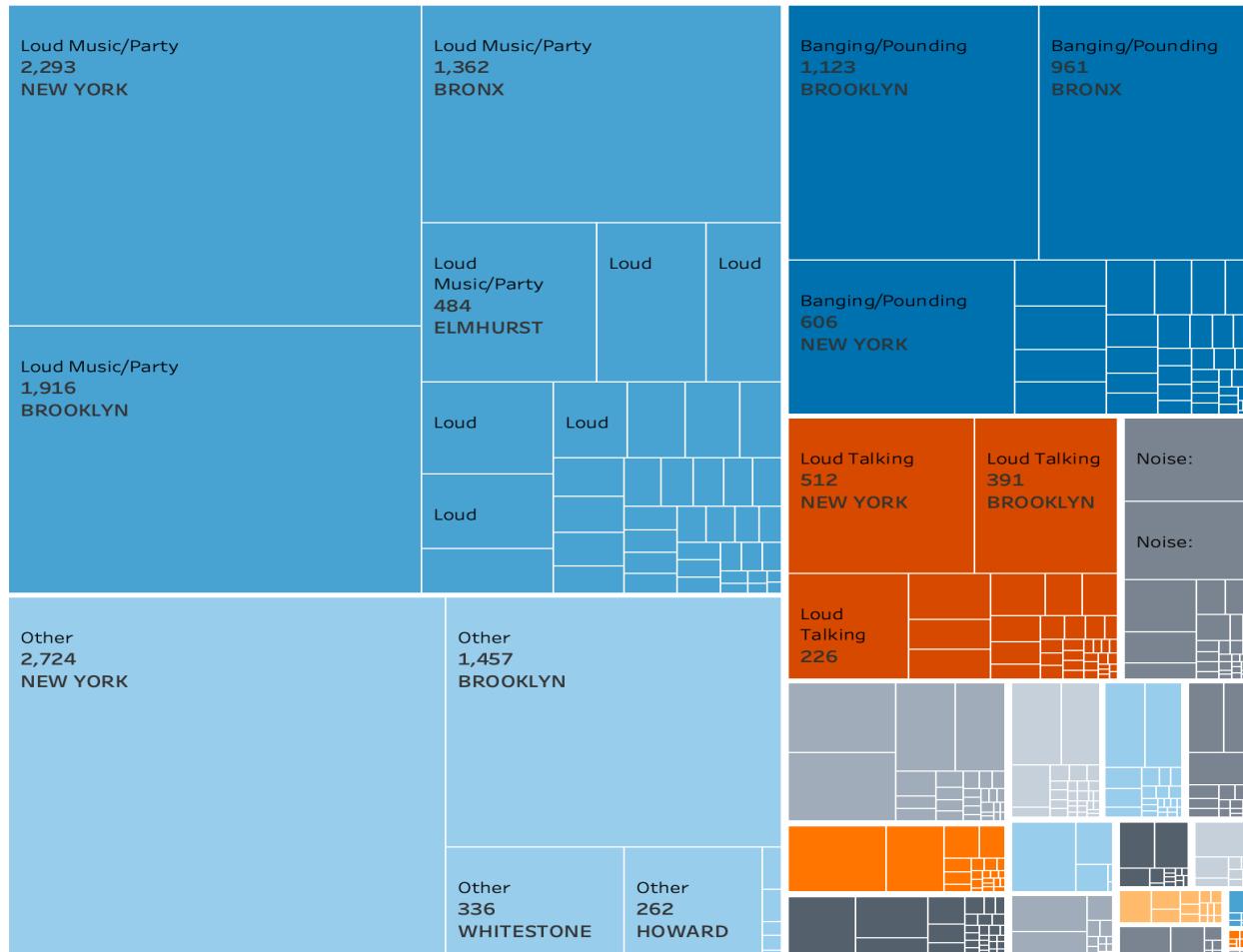


Prioritization by noise subcategory & city

YEAR
2023

MONTH
December

- Descriptor**
- Banging/Pounding
 - Car/Truck Horn
 - Car/Truck Music
 - Engine Idling
 - Loud Music/Party
 - Loud Talking
 - Loud Television
 - News Gathering
 - Noise, Barking Dog (NRS)
 - Noise, Ice Cream Truck (N..)
 - Noise, Other Animals (NR6)
 - Noise: air condition/ventil...
 - Noise: Alarms (NR3)
 - Noise: Boat/Engine,Music..
 - Noise: Construction Befor..
 - Noise: Construction Equip..
 - Noise: Jack Hammering (N..)
 - Noise: lawn care equipme..
 - Noise: Manufacturing Noi..
 - Noise: Private Carting Noi..
 - NYPD
 - Other



References

- Ahern Jack, 15 dec 23, 'Stop Noise act' passed by city council, NYC, 'Our town' newspaper, <https://www.ourtownny.com/news/stop-the-noise-act-passed-by-nyc-city-council-consider-fixing-your-muffler-to-avoid-tix-LK2972904>
- Data source: 311 NYC data, <https://nycopendata.socrata.com/Social-Services/311-Service-Requests-from-2010-to-Present/erm2-nwe9?>
- A guide to new York city noise code,
<https://www.nyc.gov/assets/dep/downloads/pdf/air/noise/noise-code-guide-summary.pdf>