

Lake Elmo Airport
ADVISORY COMMISSION
LEAAC

Regular Meeting

May 22, 2023



Agenda

- Welcome & Introductions
- Approval of Meeting Minutes
- Airport Manager Update
- Airport User Spotlight
- Community Spotlight
- Aircraft Noise Overview:
 - Aircraft Noise Basics
 - Q1 2023 Complaints & Operations
- Airport Tour Discussion
- Public Comment
- Member Comment
- Review LEAAC meeting schedule



Welcome & Introductions



Action

Approval of Meeting Minutes: 2-27-2023



Information

Airport Manager Update



Construction Updates

Manning Ave / County State Aid Highway (CSAH) 15 – County Project

Washington County Project Manager, Eden Rogers

- This work will include repaving what is currently existing
- No changes to airport access
- Removing housing development temporary access on Manning
- Additional of turn lanes and median will be looked at in 10-15 years

30th Street – MAC Project

DETOUR: MAY 23 – JUNE 15

30th Street CLOSED from Manning Ave to Neal Ave

Follow posted detour routes



Airport Incidents

Washington County Sheriff's Office

- Discussed airport incidents with Sheriff's Office
- Advised they respond to the airport as they would any other call within their jurisdiction
- They have also added additional patrols in the past as needed or when requested
- Was provided access to public records online – <http://web1.co.washington.mn.us/MediaReports/RMS/>
- Found no incidents or responses at the airport after reviewing year to date records

Information



Airport User Spotlight

Lake Elmo Airport



ADVISORY COMMISSION

Judd



Judd is known for his local business (Tire Pros) and the Tire Pros vehicles visible around town. He is a local Stillwater resident who grew up in town.

Aviation is a natural extension of Judd's mechanical interests, and he achieved his private pilot license in 2019. Fairly new to flying and Lake Elmo Airport, Judd built a new hangar in 2021/22.

Today he flies a Mooney M20K with an FAA-approved Rocket Engineering 305 modification to enhance speed. So far Judd's main use of the plane is for recreational purposes, visiting friends and family, and it's a real "time saver" that allows him to visit people and places his work schedule would otherwise not allow.

Judd appreciates the quiet, laid-back nature of Lake Elmo Airport and you can find him out at the airport flying or talking to other airplane owners whenever he can on quiet evenings and weekends.

Information

Community Spotlight



Lake Elmo Airport



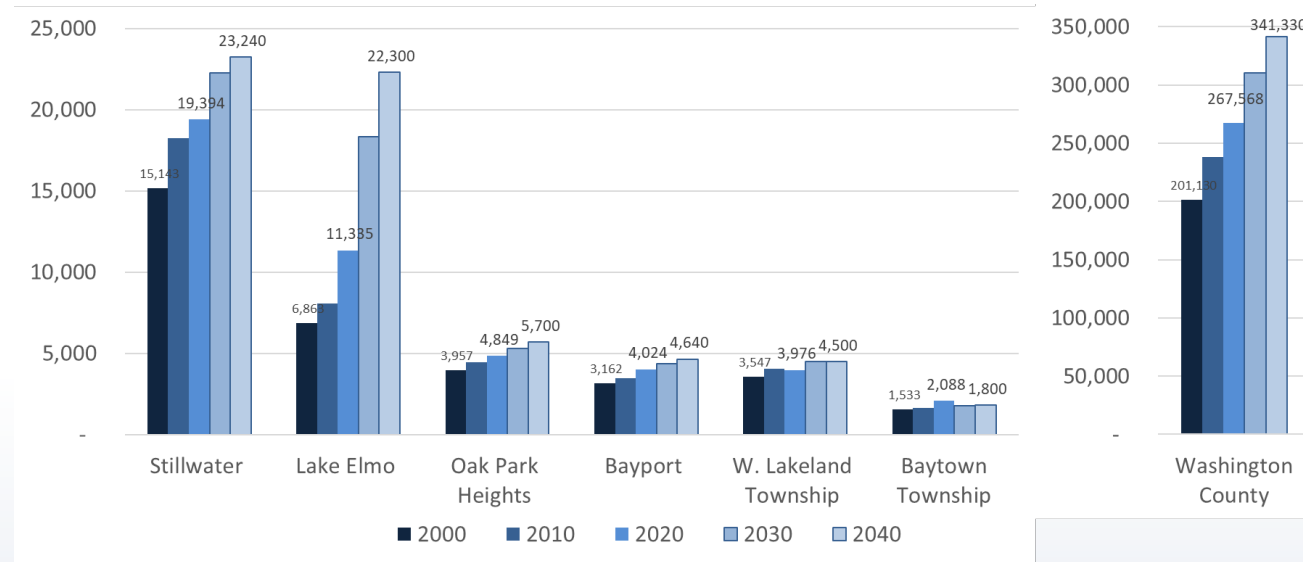
ADVISORY COMMISSION

Lake Elmo Airport Communities

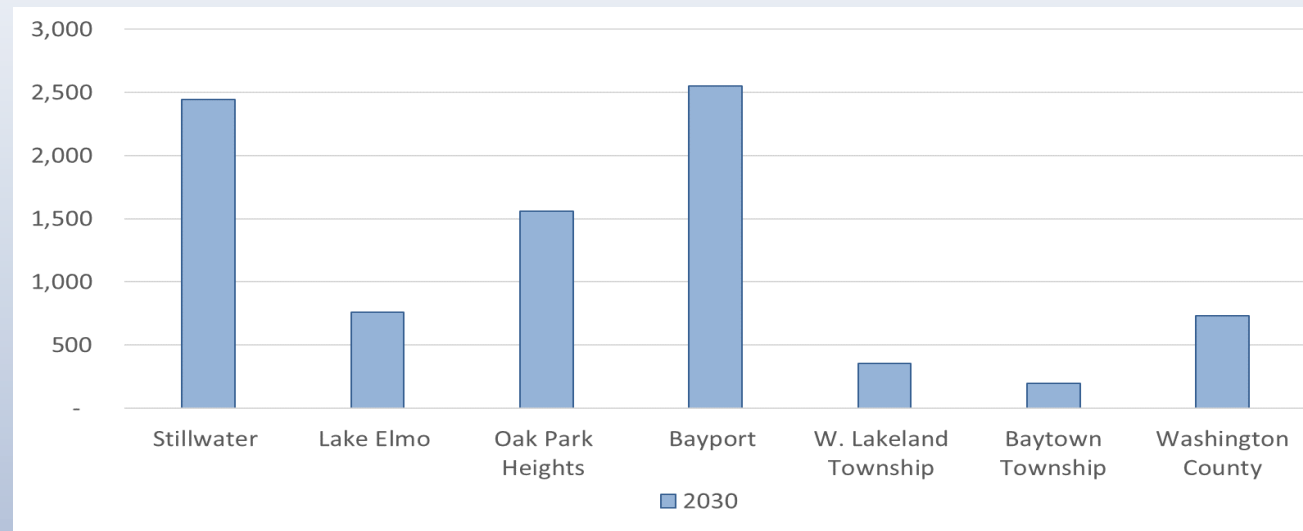
Lake Elmo Airport is situated between six communities in Washington County.

These six communities are projected to grow 24% between 2020 and 2030 with most of that growth occurring in the City of Lake Elmo.

Population



Population/Sq Mile



*SPOTLIGHT ON
CITY OF OAK PARK
HEIGHTS*



History of the City

Early history records show that the first 10-block plat for what is known now as Oak Park Heights was entered into by John Parker, William Dorr, Gold and Mary Curtis, Olive Anderson, and William M. McCluer on May 27, 1857. They would call it Oak Park and it was located in what is now known as Baytown Township, between Stillwater and South Stillwater. South Stillwater is now known as Bayport.

Many early settlers saw Oak Park as a prime area for industrial development because of its proximity to the river. In the 1880s, a sawmill and barrel making company were constructed along Oak Park's riverfront. The sawmill and warehouse are still present today, but will be moved or demolished to make way for the new bridge.

In the 1930s, Highway 36 was constructed connecting Oak Park to Stillwater. In 1932, Tara Hideaway was constructed to cater to automobile tourists who drove to the area. Also in the early 1930s, the federal government constructed a scenic overlook on Lookout Trail. Both are still here today.



History of the City

In 1938, the area was redesigned and re-platted. This new village would be called Oak Park Heights, and it was incorporated into a city in 1959.

The City of Oak Park Heights is home to several miles of paved hiking trails and many acres prairie lands and wooded hills. Like many other communities in the St. Croix Valley, Oak Park Heights offers a high quality of life, excellent school system, numerous parks, and superb healthcare facilities.

For more information, please visit the Washington County Historical Society website. The Washington County Historical Society collects, preserves and disseminates the history of Washington County, and acts as a community resource for individuals and organizations seeking historical information. That website provides a wonderful history of Oak Park Heights.



Mayor and Council

Councilmember Chuck Dougherty (Term Expires 12/31/2024)

Councilmember Carly Johnson (Term Expires 12/31/2026)

Mayor Mary McComber (Term Expires 12/31/2024)

Councilmember Mike Runk (Term Expires 12/31/2024)

Councilmember Mike Liljegren (Term Expires 12/31/2026)



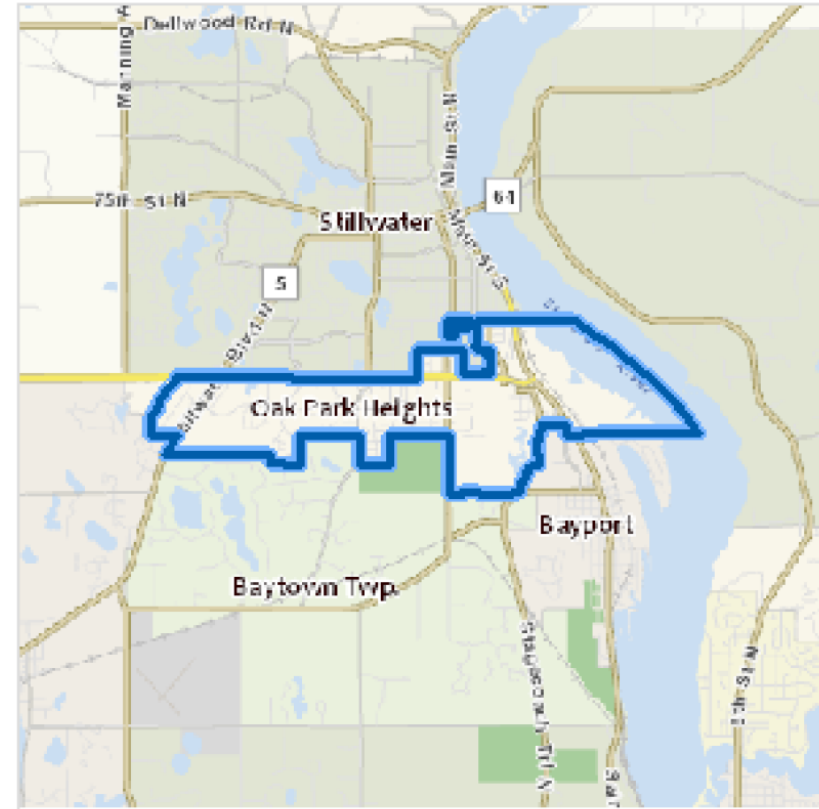
Community Profile

Area: 3.4 square miles (2,167 acres)

Parks, Recreation & Preserves: 168 acres

Population: 4,830

Households: 2,257



Community Events

The City of Oak Park Heights hosts an annual Party in the Park on the first Thursday after school lets out of the summer at Brekke Park, 5500 Omar Avenue. Party in the Park provides an opportunity for residents to get to know Council Members, City Staff, and local business owners/managers. 2023 marks the 27th year of the event.

The City Council serves hot dogs, chips, snow cones, and freeze pops. There is an inflatable jump house, games, prizes, and music to encourage all ages to attend. The event also has face painting and kid crafts, and includes a raffle with prizes such as bicycles, helmets, gift certificates, and other family friendly items.

The City invites local businesses to participate. There are several ways in which they participate: set up a table and bring flyers and branded trinkets, games and prizes, serve food, snacks or beverages, set up workshops for the kids, provide entertainment, and/or donate items (such as gift baskets or gift certificates) for the mayor to raffle off. This provides a great advertising opportunity since the City typically gets about 350-400 residents out at the park, and there is **NO FEE** to participate.



Community Events

The City of Oak Park Heights also has a very successful Summer Park Program, in its 15th year.

Each Tuesday features a different craft for children and families to complete. There are other events such as bingo, The Science Guys, a puppet show, a bear hunt, and Fairies in the Park.

These events are free for residents, and we typically see over 100 kids each week at the park!



Hot Topic in Oak Park Heights

Xcel Energy announced in 2020 that the Allen S. King Plant will close in 2028. At 179 acres with 4,000+ linear feet along the St. Croix River, this is a premier property and the repurposing of the property will have a profound impact on the City, the St. Croix Valley, and beyond. The City Council established a King Plant Advisory Panel to explore and analyze ideas relating to how the Allen S. King Plant site could be repurposed and to consider the physical, environmental, economic, social, scenic, and recreational impacts of those options. The King Plant Advisory Panel completed their work and have issued a report which can be found on the City's website.

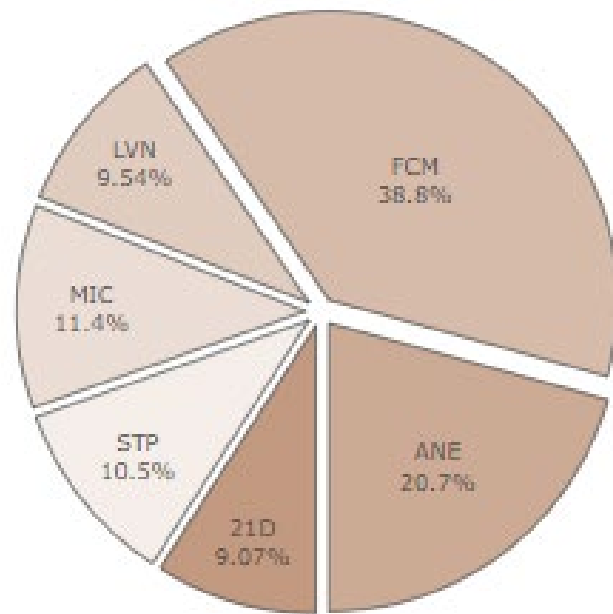


Information

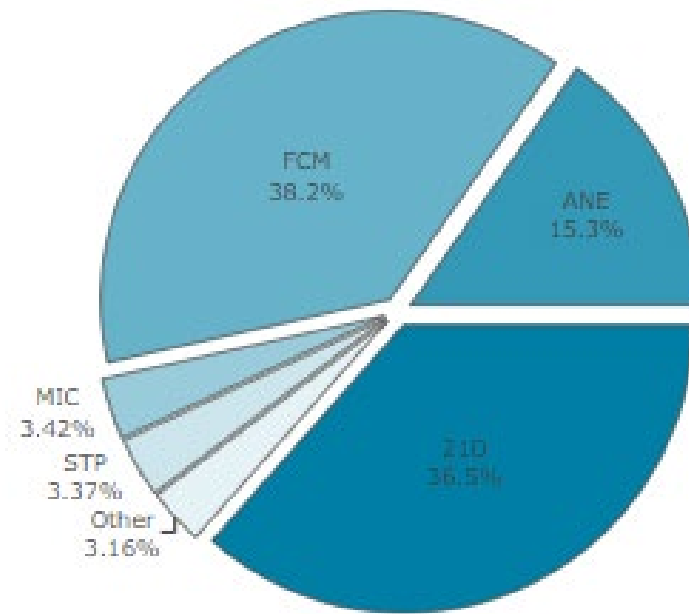
Aircraft Noise Overview

- Aircraft Noise Basics
- Q1 2023 Complaints & Operations

AIRCRAFT OPERATIONS



NOISE COMPLAINTS



Aircraft Noise Basics



1. Overview of Aviation
2. Airport Regulators
3. Overview of Lake Elmo Airport
4. Long Term Planning & Noise Abatement Efforts
5. Airport/Community Resources



1. Overview of Aviation

- ✓ English is the official language of aviation worldwide, and Greenwich Mean Time (GMT) is the official clock
- ✓ Federal Aviation Administration has sole jurisdiction over aviation in the United States
National Airspace System
- ✓ Each airport in the world is assigned a four-character code –K21D is Lake Elmo Airport's code
(All airport codes in the U.S. start with 'K')
- ✓ When referring to local airports, the 'K' is dropped from the code for simplicity
- ✓ Airspace is public in the United States except where protected for special uses
- ✓ There are 5,217 public-use airports in U.S.
- ✓ The busiest time to fly is 6 a.m. -10 p.m., across the U.S. airspace

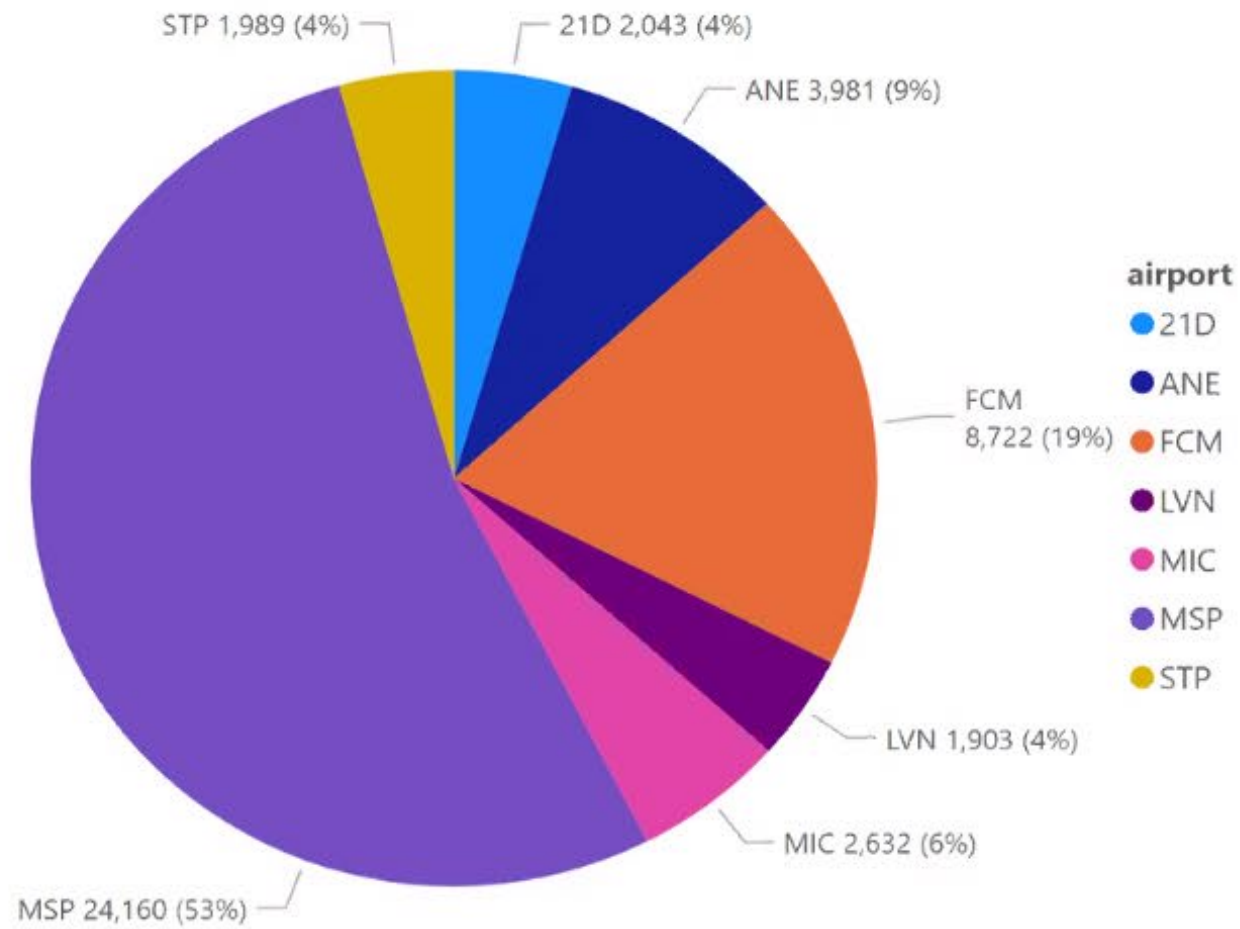


2. Airport Regulators

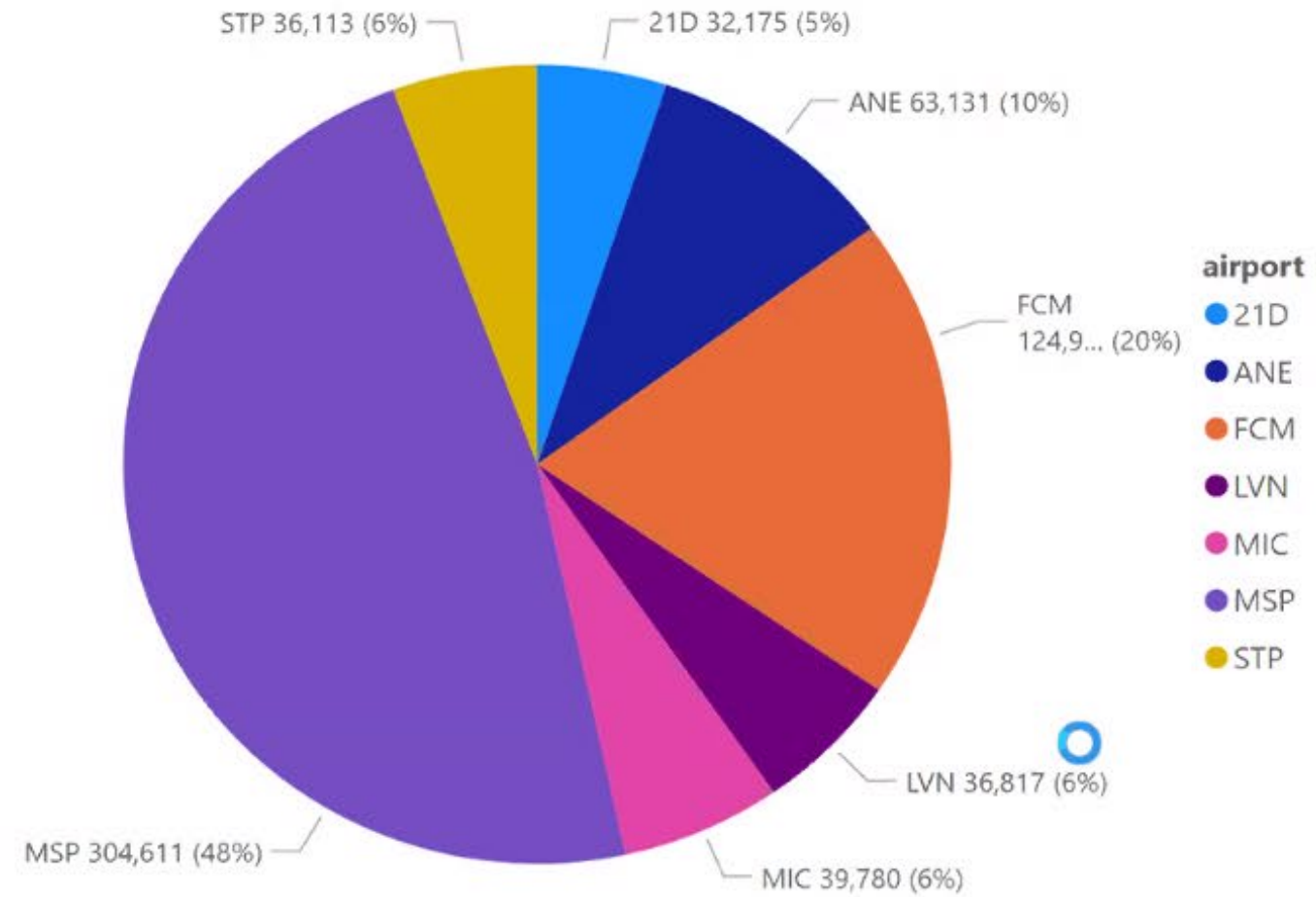


MAC AIRPORTS OPERATIONS | 2022

Reliever Airports Operations Summary (30-Day Pie)



Reliever Airports Operations Summary (1-Year Pie)

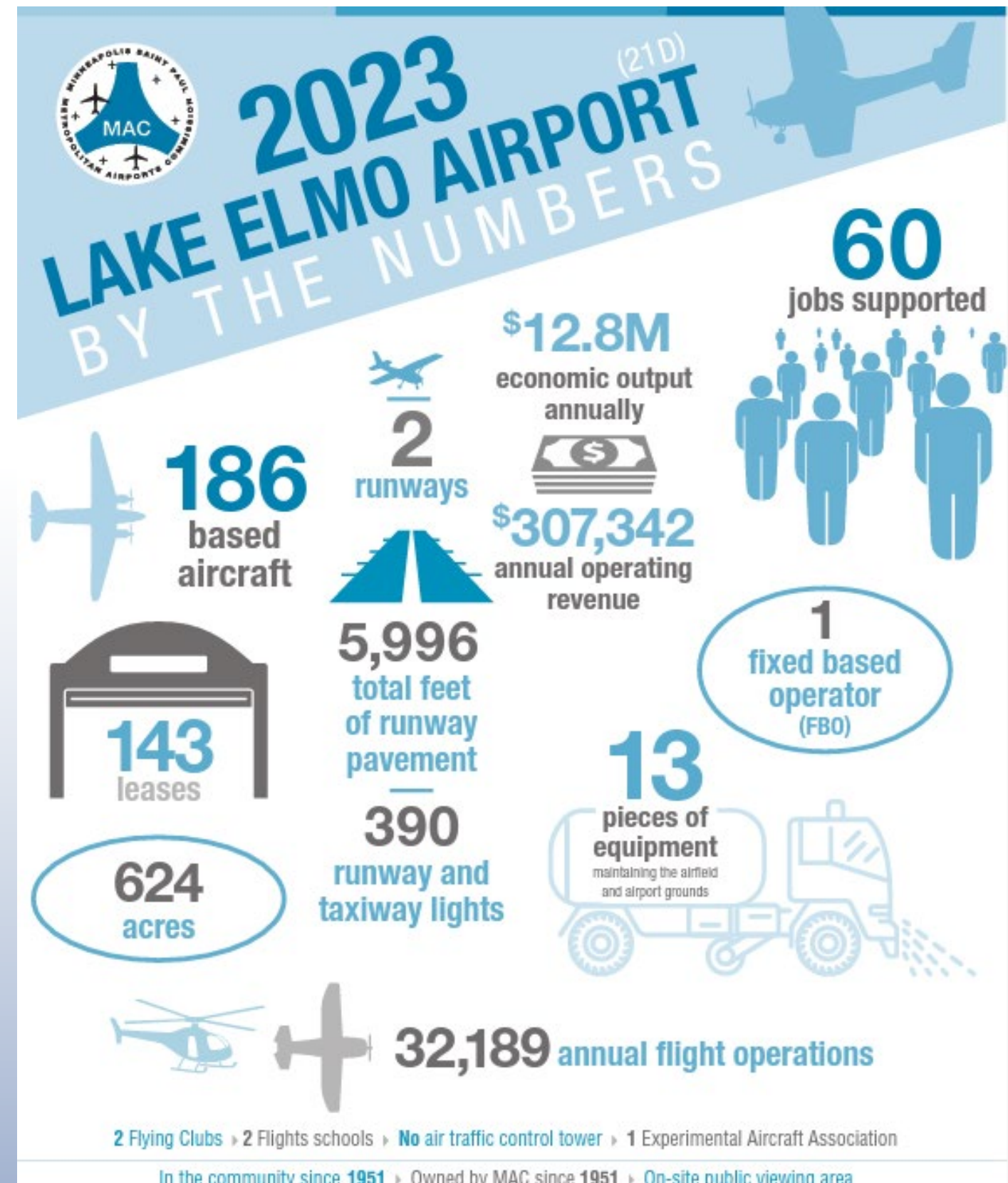


3. Overview of Lake Elmo Airport

- ✓ There are 133 airports in Minnesota
- ✓ Minnesota State Statute 473.641 restricts the length of runways to 5,000 feet for “Minor” Airports such as the Lake Elmo Airport
- ✓ Flight operations at 21D are regulated by the FAA
- ✓ MAC airports are public-use and open 24 hours per day
- ✓ Lake Elmo Airport is one of seven MAC airports: 21D, ANE, FCM, LVN, MIC, STP, and MSP
- ✓ The Lake Elmo Airport (21D) is established as a secondary Reliever Airport (others include MIC and LVN) to support aviation system needs and relieve air traffic congestion at MSP



- ✓ 21D has two runways for pilots to use in any FAA-certificated aircraft type
- ✓ Federally-established standard operating procedures are use at 21D consistent with other non-towered airports
- ✓ The traffic pattern altitude at 21D is 1,000 feet above ground
- ✓ Aircraft in the process of taking off or landing do not have minimum altitudes (14 CFR 91.119)
- ✓ Noise abatement flight procedures at MAC airports are voluntary



5-30-57

1957



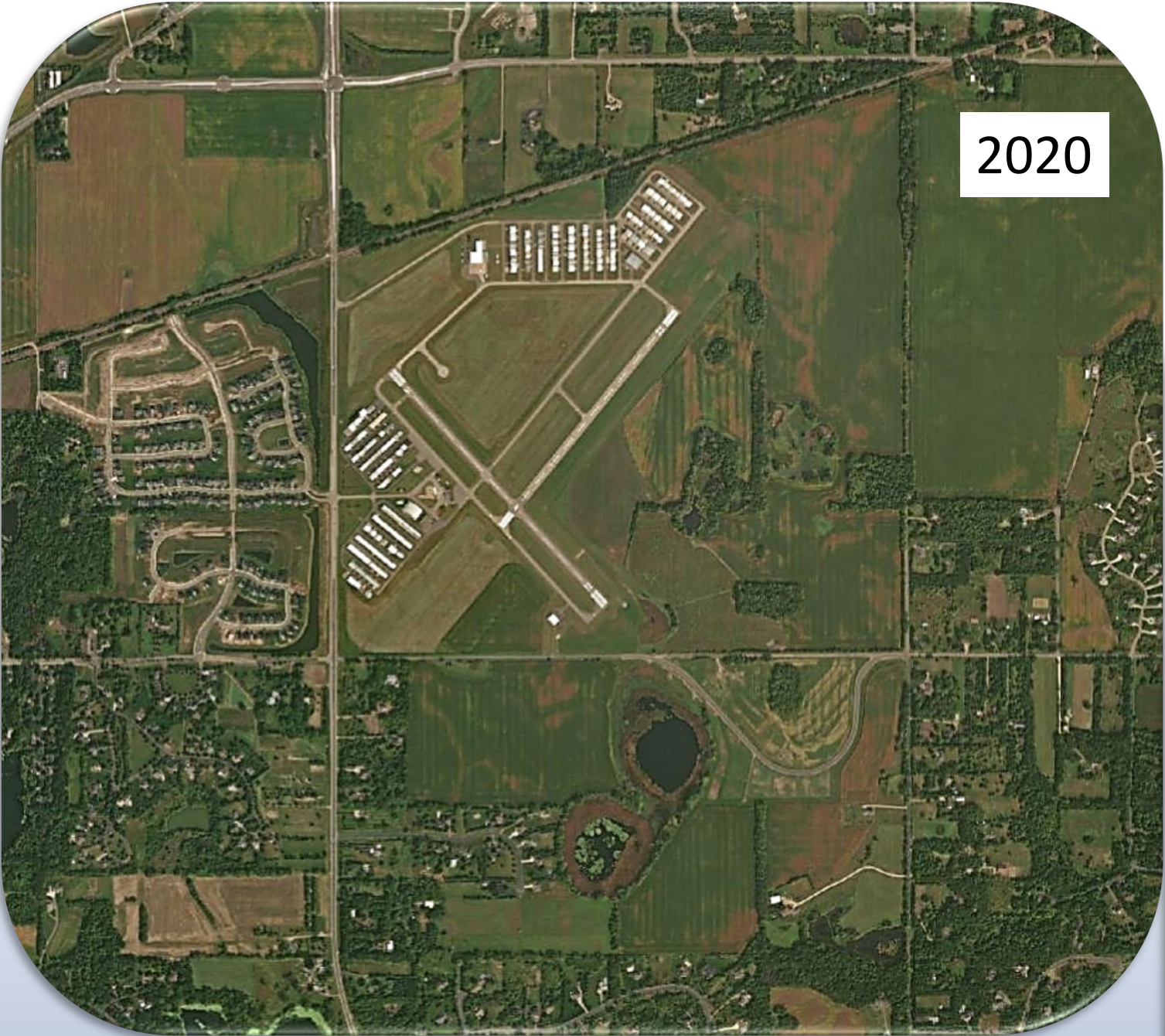
757831
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1964



2020

2022





4. Long Term Planning & Noise Abatement Efforts

- ✓ Community land use plans consider local airports, and Airport long term plans consider surrounding communities.
- ✓ Long term plans that support airport access and consider flight paths are essential for managing community needs and expectations.
- ✓ Open space and non-residential areas in the vicinity of airports are most compatible for aircraft operations.
- ✓ Noise abatement flight procedures voluntarily aim to lessen/prevent aircraft noise impacts within operational safety requirements.



Why the MAC Cannot Close its Airports at Night...

The Airport Noise and Capacity Act of 1990 (ANCA) requires federal approval for access restrictions proposed for public-use airports in accordance with 14 CFR Part 161



21D IS A NOISE SENSITIVE AIRPORT

Avoid Noise Sensitive Residential Areas When Possible

Pilot Information and Noise Abatement Plan (NAP)

A voluntary Noise Abatement Plan (NAP) for 21D is the result of cooperative efforts between airport users and pilots, surrounding communities, and the Metropolitan Airports Commission.

NOTE: FAA regulations and requirements take precedence over noise abatement procedures. RECOMMENDED PROCEDURES ARE NOT INTENDED TO CONFLICT WITH INSTRUCTIONS FROM ATC OR THOSE THAT ARE THE EXCLUSIVE AUTHORITY OF THE FAA

Preferred Runway Use

Runway 32 is the calm wind runway. Communicate runway use intentions on UNICOM/CTAF.

Traffic Pattern Procedures

The following procedures shall be adhered to while operating in the 21D traffic pattern:

1. The traffic pattern altitude at 21D shall be 1933 msl.
2. Multiple training events by turbojet aircraft in the traffic pattern are prohibited.
3. Keep traffic pattern as close to runways as possible.
4. When departing the traffic pattern, choose a path that avoids overflying residential areas if possible. Follow preferred departure routes if possible (green arrows in map).





Union Pacific Railroad

Manning Ave. (CR 15)

30th St. North


14

22

4

32

LEGEND

 Residential Areas within One Mile of 21D

Lake Elmo Airport
Noise Abatement Procedures in 2015



NIGHTTIME MEASURES

1. Pilots are asked to avoid operating during nighttime hours (2200 – 0700 local) if possible
2. Training flights are discouraged between the hours of 2400 - 0700 local
3. Intersection takeoffs are discouraged at all times, and prohibited from 2200-0700 local
4. Any aircraft not meeting 14 CFR Part 36 is prohibited between 2200 - 0700 local

HELICOPTER PROCEDURES

1. Helicopter training in the traffic pattern area is prohibited from 2200 - 0800 local
2. Avoid flow of fixed wing aircraft
3. Avoid low-level training and repetitive activity over residential areas whenever possible

DEPARTURE PROCEDURES

1. Intersection takeoffs at the airport are discouraged at all times
2. Departing aircraft should climb to 500 feet agl before initiating a turn
3. Avoid overflying noise sensitive residential areas if possible
4. Gain as much altitude as possible before overlying residential areas
5. Follow NBAA Noise Abatement Departure Procedures

ARRIVAL PROCEDURES

1. On approach to 21D, remain at Traffic Pattern Altitude or higher until descending via PAPI/VASI if available
2. Remain at an altitude at or above the approach slope indicator as much as possible
3. Stop and Go landings are NOT permitted
4. Follow NBAA Approach and Landing Procedures

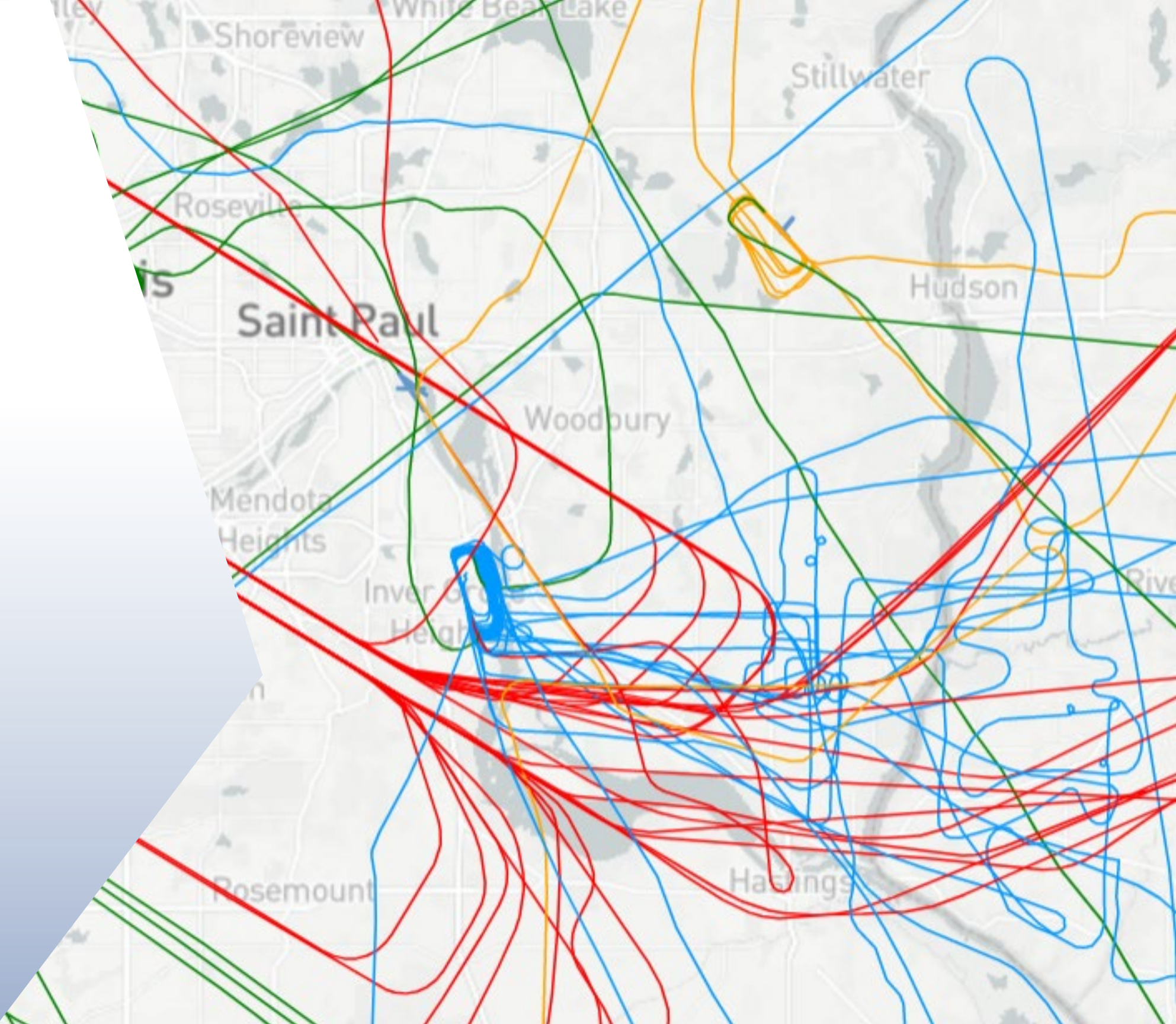


5. Airport/Community Resources

- Events
- Education
- FAA Data
- MAC Tools & Data
- MNDot Data & Reports
- LEAAC
- Aircraft Viewing Area



MAC
FlightTracker:
macnoms.com



MAC Reliever Interactive Reports

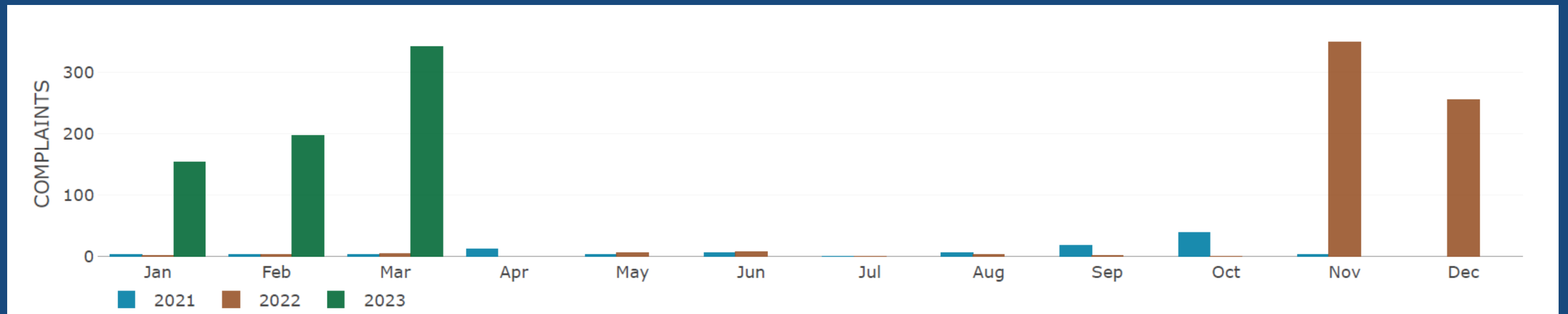


Quarterly Reports available here: <https://customers.macnoms.com/reports/relievers.html>



Lake Elmo Airport Aircraft Complaints Q1 2023

COMPLAINTS				
2023	694 COMPLAINTS	6 LOCATIONS	15 NIGHTTIME COMPLAINTS	5 NIGHTTIME HOUSEHOLDS
2022	10 COMPLAINTS	4 LOCATIONS	5 NIGHTTIME COMPLAINTS	4 NIGHTTIME HOUSEHOLDS

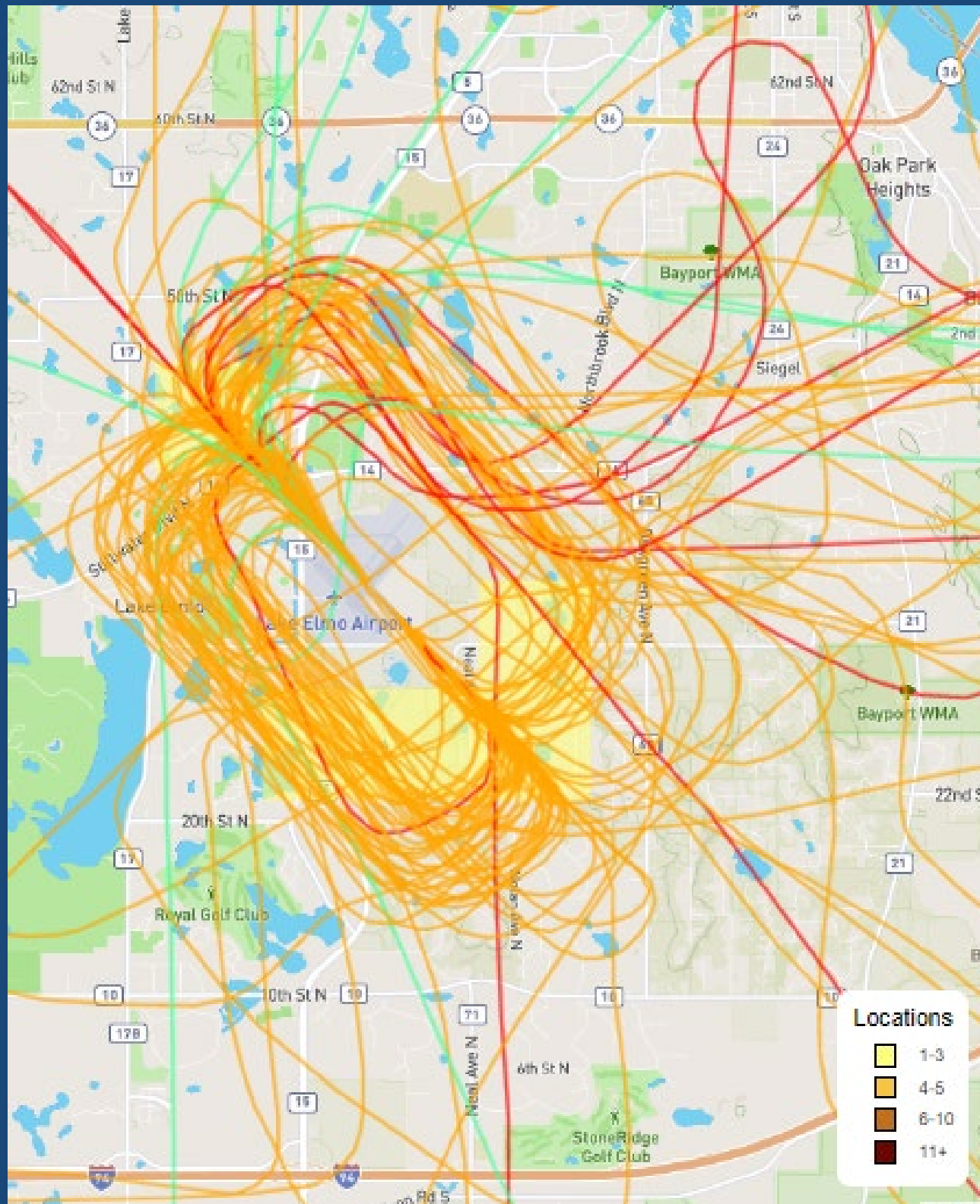


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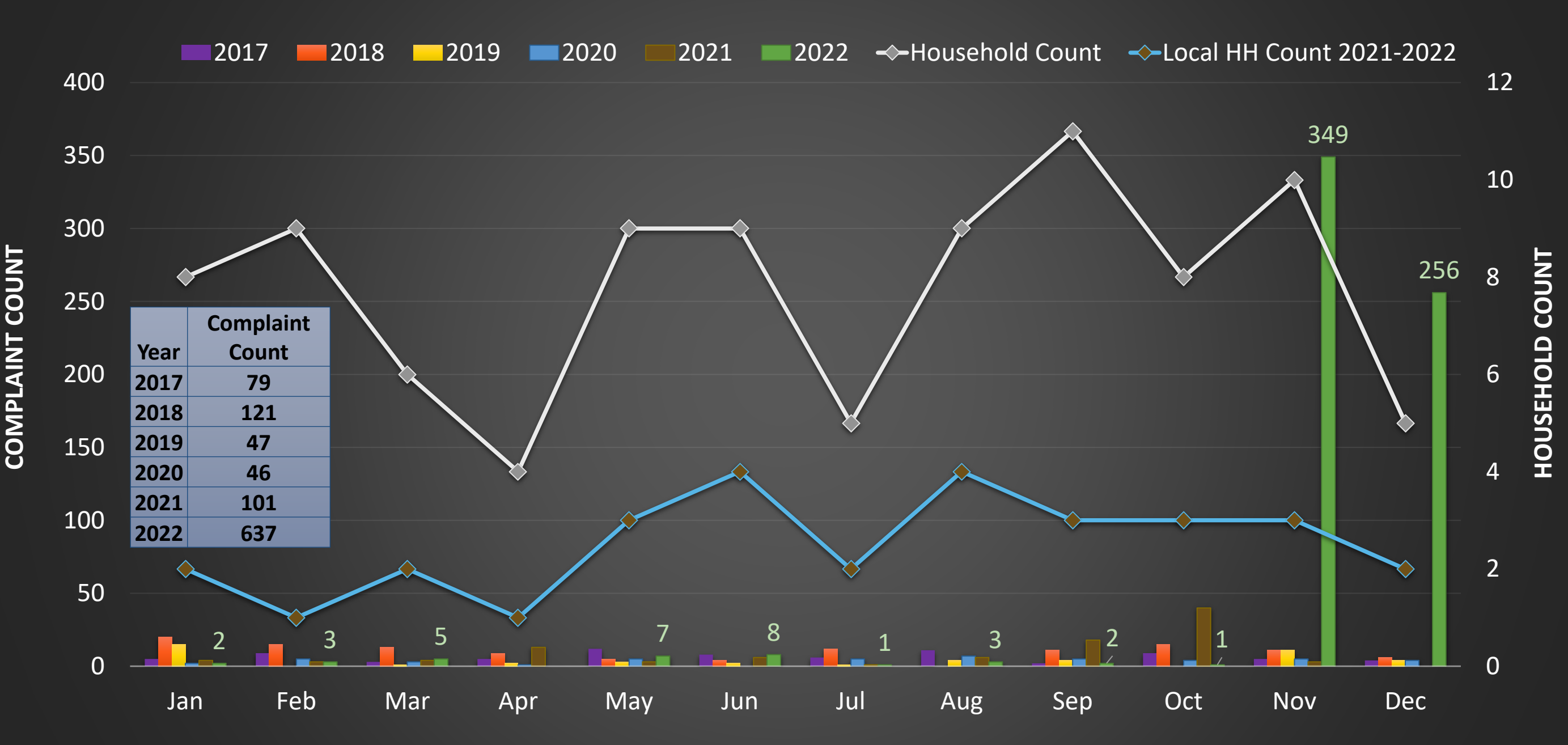
21D Aircraft Noise Complaint Locations Q1 2023

There were **6 locations** in Q1 2023 that submitted **694 complaints**, as follows:

- **674 complaints** from location north,
- **19 complaints** from locations south, and
- **1 complaint** from Brooklyn Park

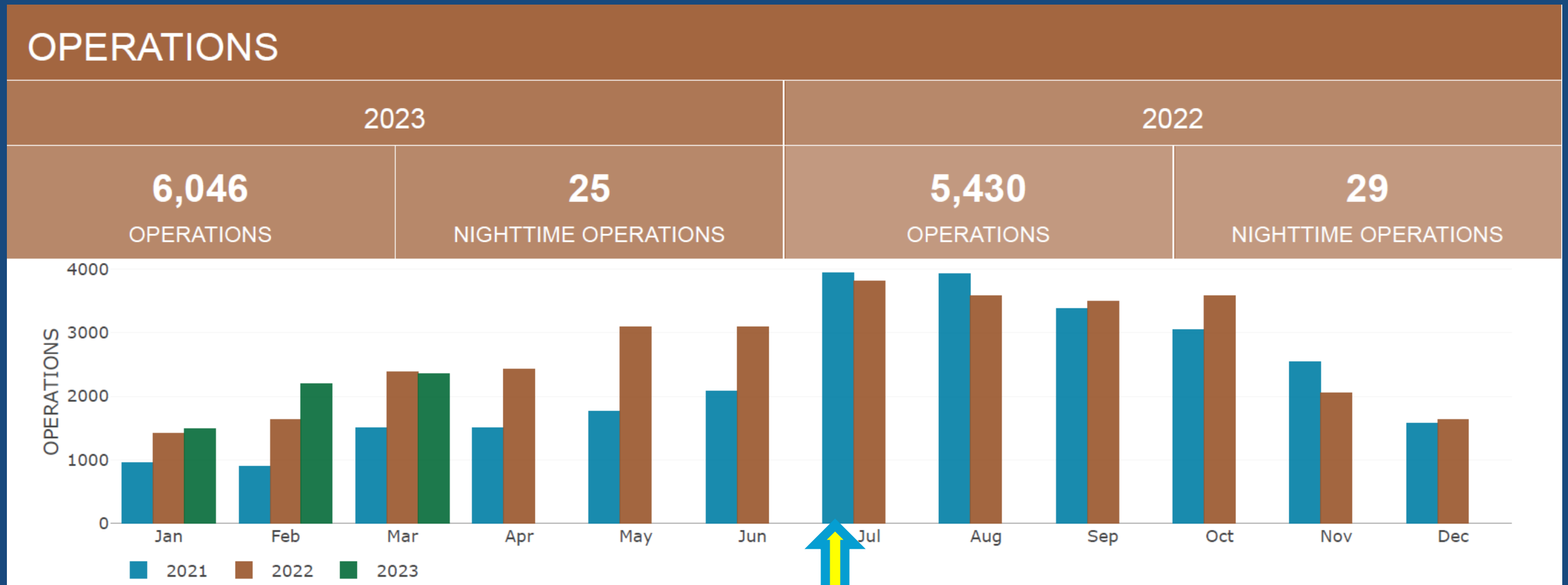


Lake Elmo Airport Monthly Complaint Levels



Quarterly Reports available here: <https://customers.macnoms.com/reports/relievers.html>

Lake Elmo Airport Aircraft Operations Q1 2023



* Beginning on July 1, 2021, MACNOMS methodology for counting operations was updated to more accurately reflect total aircraft departures and arrivals at MAC airports.

Quarterly Reports available here: <https://customers.macnoms.com/reports/relievers.html>

Airport Tour Discussion

We are looking to schedule tours of the airport and would like to know your thoughts.

- Consider which dates work for you in July and August
- Who would you like to include in the tour
- We will reach out to LEAAC members in June
- Tours may need to be on multiple days depending on how many are interested

Public Comment

Members of the public are welcome to share their remarks with the Commission.
Please state your name and address

Limit remarks to 3 minutes



Member Comment



Next
Meetings

August 28, 2023
November 27, 2023





Thank
you!