



MnDOT Aeronautics

Jim McCanney | Airport Coordinator – Southern Region

October 12, 2023

MnDOT's Aeronautics Office

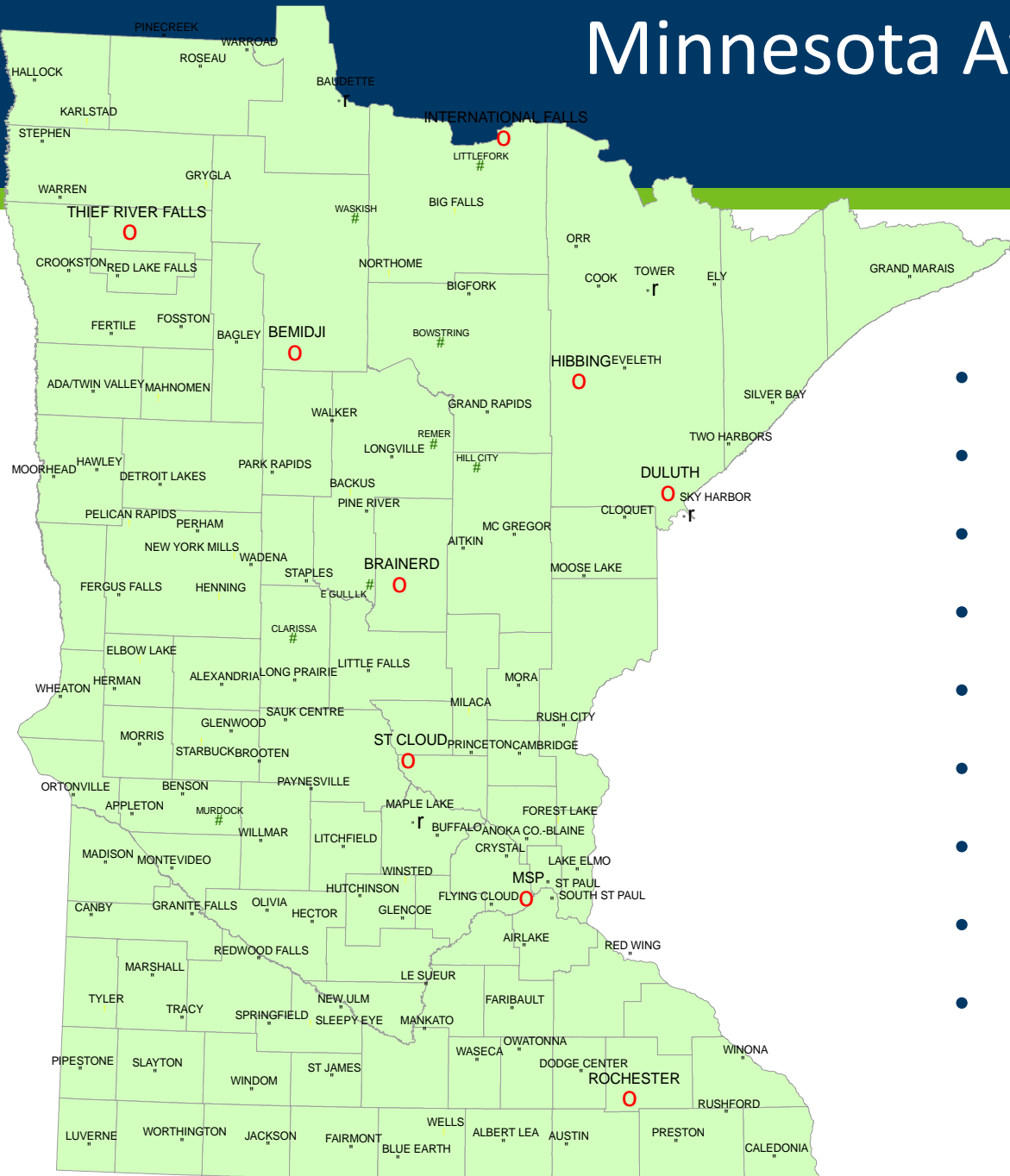
MS 360.011 Declaration of Purpose for Aeronautics

≈ 40 Employees

- Licensing and Registration
- Planning and Development
- Airport Operations & Navigational aid
- Air Transport Services
- Aviation Education & Outreach



Minnesota Aviation System



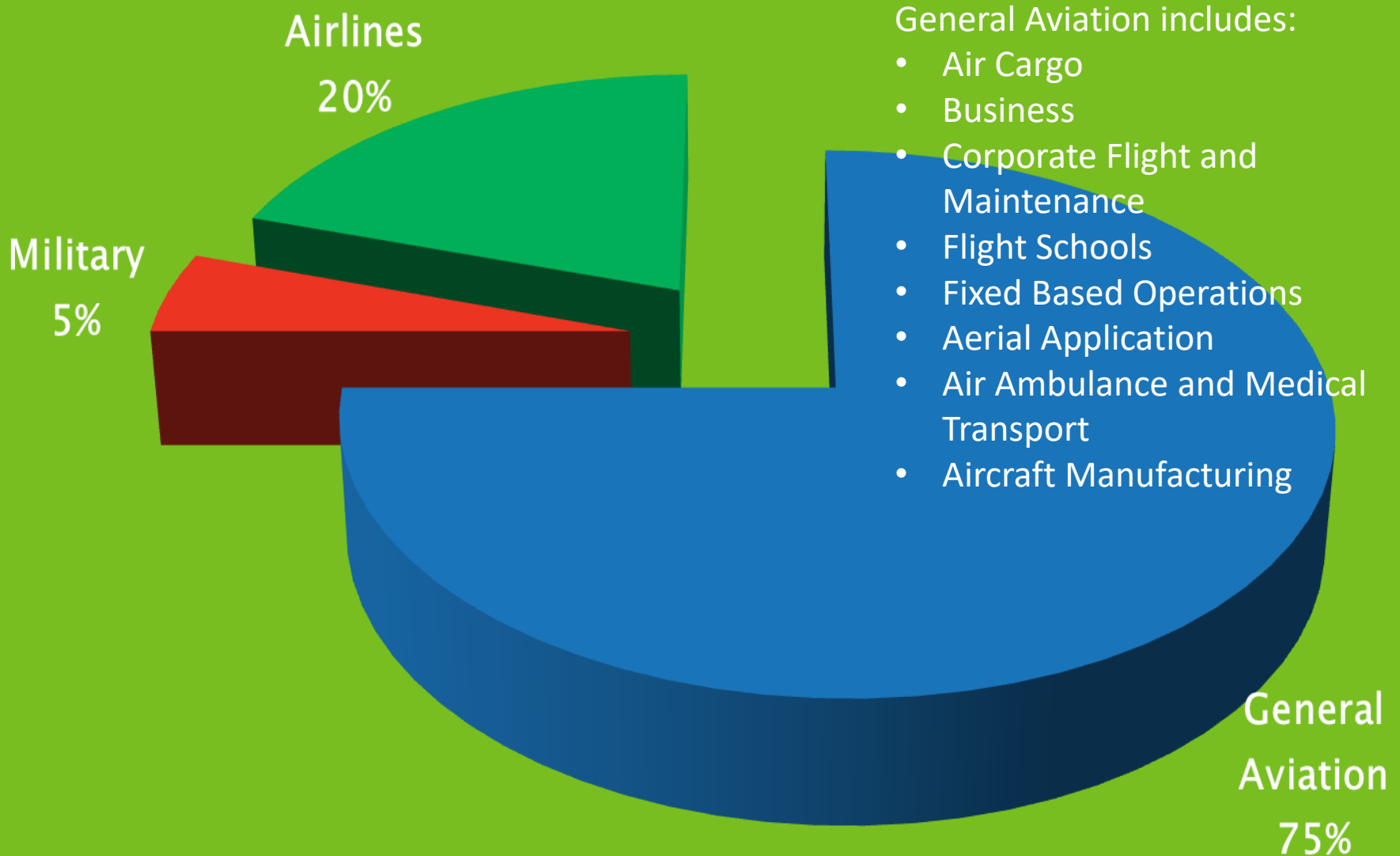
- 12,000+ pilots
- 7000 registered aircraft
- 9 commercial service airports
- 31 million passengers
- 133 state funded airports
- 96 federally eligible airports
- 113 Heliports
- 56 Seaplane Bases
- 73 private & personal use airports

Who are our customers?

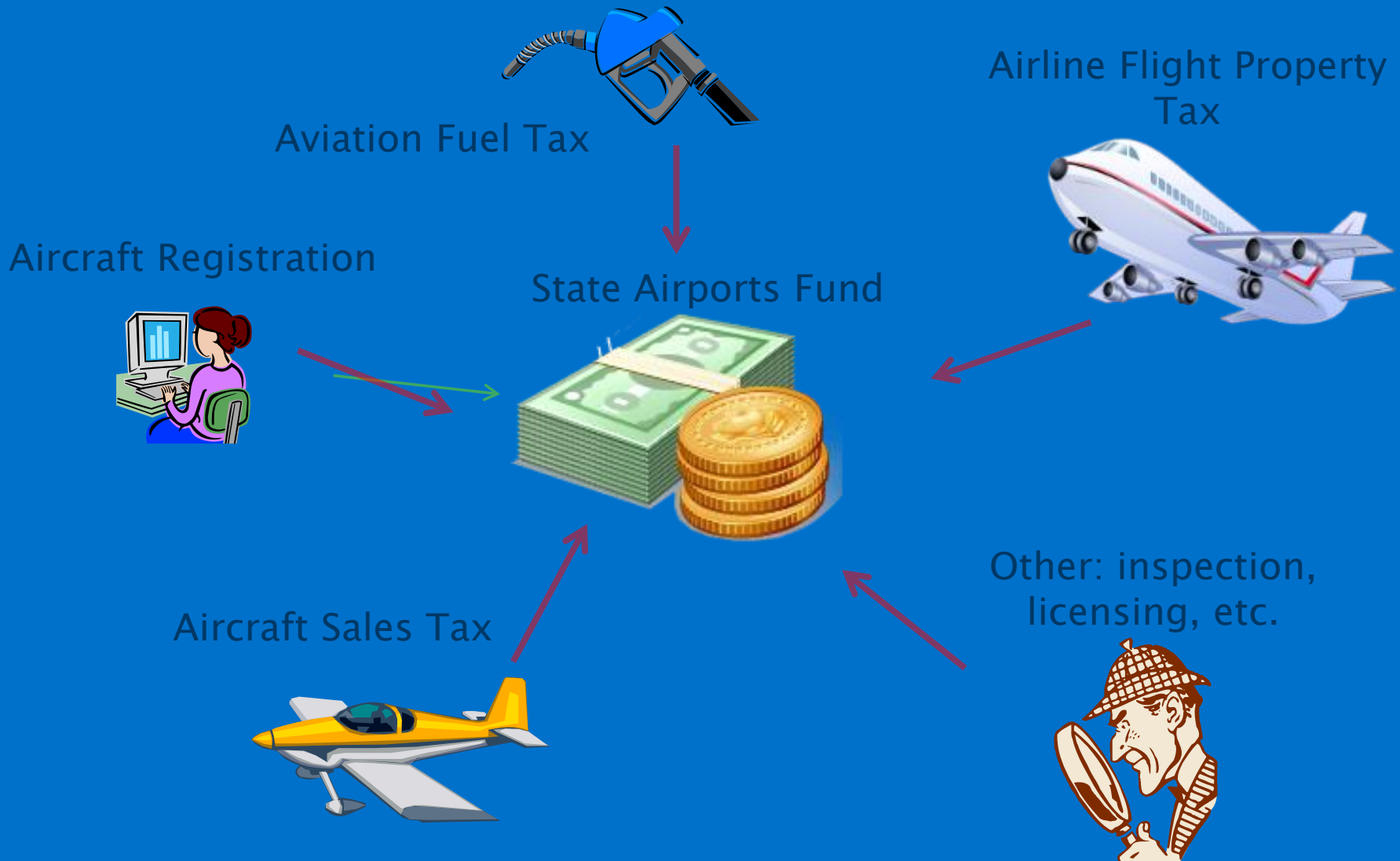


Public
Businesses
Pilots - Passengers
Airport & City officials
Aircraft Maintenance Technicians
Mail & Package Delivery
Emergency Response
Tourism & Recreation
Agriculture Industry
Repair Stations
Flight Schools
Teachers
Students

Glimpse of the Aviation System in MN



State Airport Fund Income





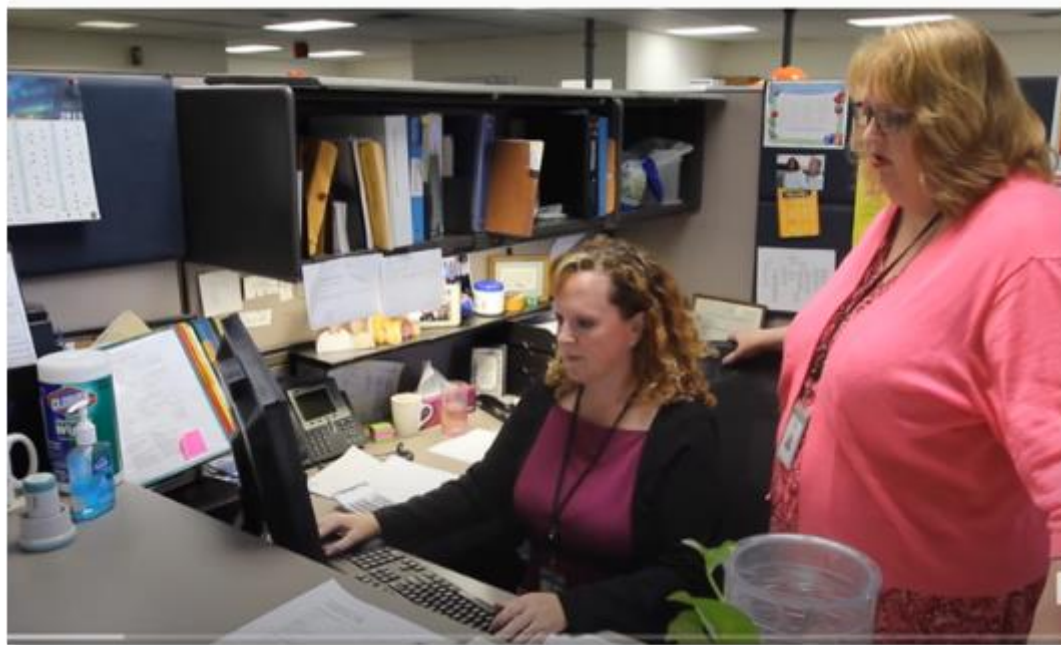
Air Transportation Services

Jeff Flynn

Chief Pilot

Two Main Missions

- Act as MnDOT's Travel Agency
- Serve as MnDOT's Flight Department



Travel Agency

- Support MnDOT OST travel needs
- Serve 5,000+ Employees
- Planes, trains and automobiles



Flight Department

- Based at St. Paul Downtown Airport
 - Hangar 410 (under construction)
- ATS services are available for MnDOT employees and other state agencies
 - Fly vs. Drive







Aeronautics Business Section

Julie Carr

Aeronautics Business Section Supervisor

Aero Business Section Overview

Aircraft Registration and Finance Unit

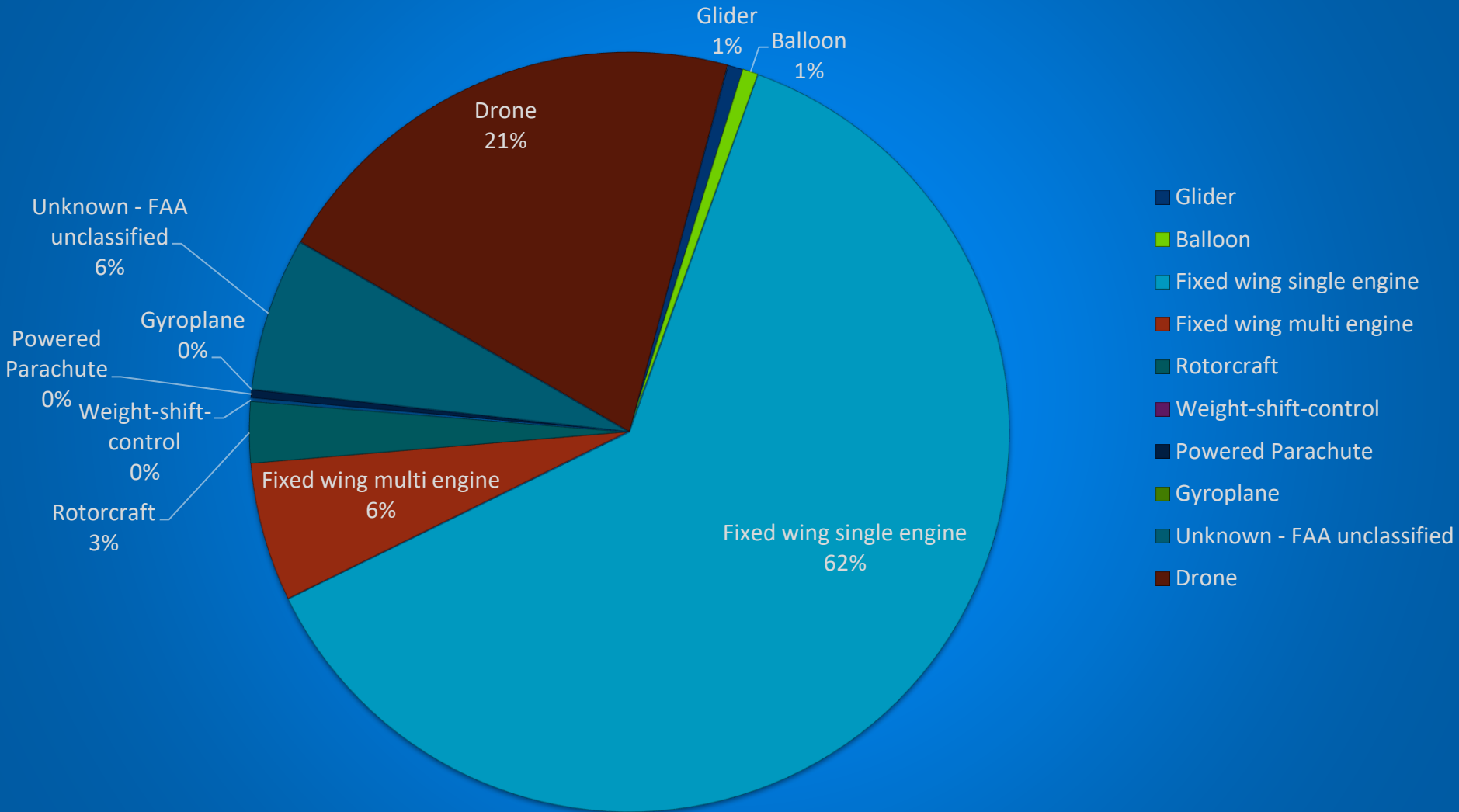
Aircraft Registration/Commercial Operations Licensing Team

- Collect aircraft registration, sales tax, commercial operations licenses, and airport licenses.
 - What is a commercial operations license? Ag sprayers, Firefighters, Drones when used for commercial operations (not recreational flying).
- Work with Department of Revenue to ensure the collection of aircraft sales tax

Finance Team

- Process all airport grant payments – both federal and state grants.
- Process payments for office, hangar, Aero's aircraft maintenance and repairs, utility bills for navigational aids (NavAids), etc.

Registered Aircraft – 7589





Aeronautics Planning Section

Rylan Juran

Planning Director

Aviation Planning

- State Aviation System Plan
- Airport Master Planning
- Airport Safety Zoning
- Land Use Compatibility Coordination
- Air Service Marketing Program

State Aviation System Plan (SASP)

- Is our long-term strategic plan, designed to provide a description and assessment of the system's current performance, as well as guidance for future development
- Internal preparation for public comment period: May 2023
- Public comment period: June – July 2023
 - 30 day public comment period
- Finalize plan based on feedback: July – August 2023
- Plan adoption: September – October 2023
 - Planning Management Group
 - Senior Leadership Team
 - Governor's Office



Airport Master Planning

- Ensure that state standards and performance measures are being met by proposed airport master plans.
- Review and comment on ALP's



2022

- 6 Full ALPs: 2 state only, 4 NPIAS
- 9 sheet Updates
- 6 in FAA Airspace Review
- 2 State only brand-new ALPs

2023

- 7 Full ALPs: 2 state only, 5 NPIAS
- 6 Proposed Sheet updates- "Pen & Ink"
- 5 in FAA Airspace Review
- 1 State only – new ALP

INDEX OF SHEETS

1. TITLE SHEET
2. AIRPORT LAYOUT PLAN
3. AIRPORT ZONING ORDINANCE
4. AIRPORT LAYOUT PLAN - REGIONAL
5. APPROACH PLANS & PROFILES
6. ENROUTE AND LANDING PROCEDURES
7. AIRPORT PLAN & PROFILE
8. EXISTING AIRFIELD BUILDING AREA PLAN
9. LAND USE & ZONING
10. AIRPORT PROPERTY BOUNDARY
11. BIRD

AIRPORT LAYOUT PLAN
FILLMORE COUNTY AIRPORT (FKA)
PRESTON, MINNESOTA
OCTOBER 28, 2020

IN AN APPROXIMATE AIRPORT ZONING

Approved: Pam Schroeder
 Date: 10/27/20

Prepared by: Pam Schroeder
 Date: 10/27/20

CONDITIONALLY APPROVED

CONDITIONALLY APPROVED

TITLE SHEET

1 of 8

Air Service Marketing



- A program that aims to encourage the preservation and expansion of scheduled passenger air carrier service to greater Minnesota
- Administer grants that can be used for activities related to commercial passenger air service (e.g. advertising of service, marketing studies, public relations activities and service improvement activities)
- \$300,000 state funds annually

MN Airspace Obstructions

- Top priority – protect the national airspace around public-use airports
 - MN Rules: Chapter 8800.1100
 - MN Statutes: Sections 360.81 to 360.91
- <http://www.dot.state.mn.us/aero/talltowers.html>
- Review and meet with other Aero departments for possible impacts on MN's airports





Airport Development

Arika Johnson

Airport Development Supervisor

Airports We Serve



- Airport Classification**
- ✦ Key NPIAS
 - ✦ Intermediate NPIAS
 - ✦ Landing Strip NPIAS
 - ✦ Intermediate Landing
 - ✦ Strip

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Statewide Planning Staff
 VACANT

- 133 Licensed Public Airports
- Public Sponsor – Must be owned by a municipality (i.e. city, township, county, airport authority)
- Licensed airports are eligible for State Funds
- 97 are a part of NPIAS and are eligible for Federal funding through the FAA
 - NPIAS = National Plan of Integrated Airport Systems

Airport Classification

-  Key NPIAS
-  Intermediate
-  Landing Strip
-  Intermediate
-  Strip



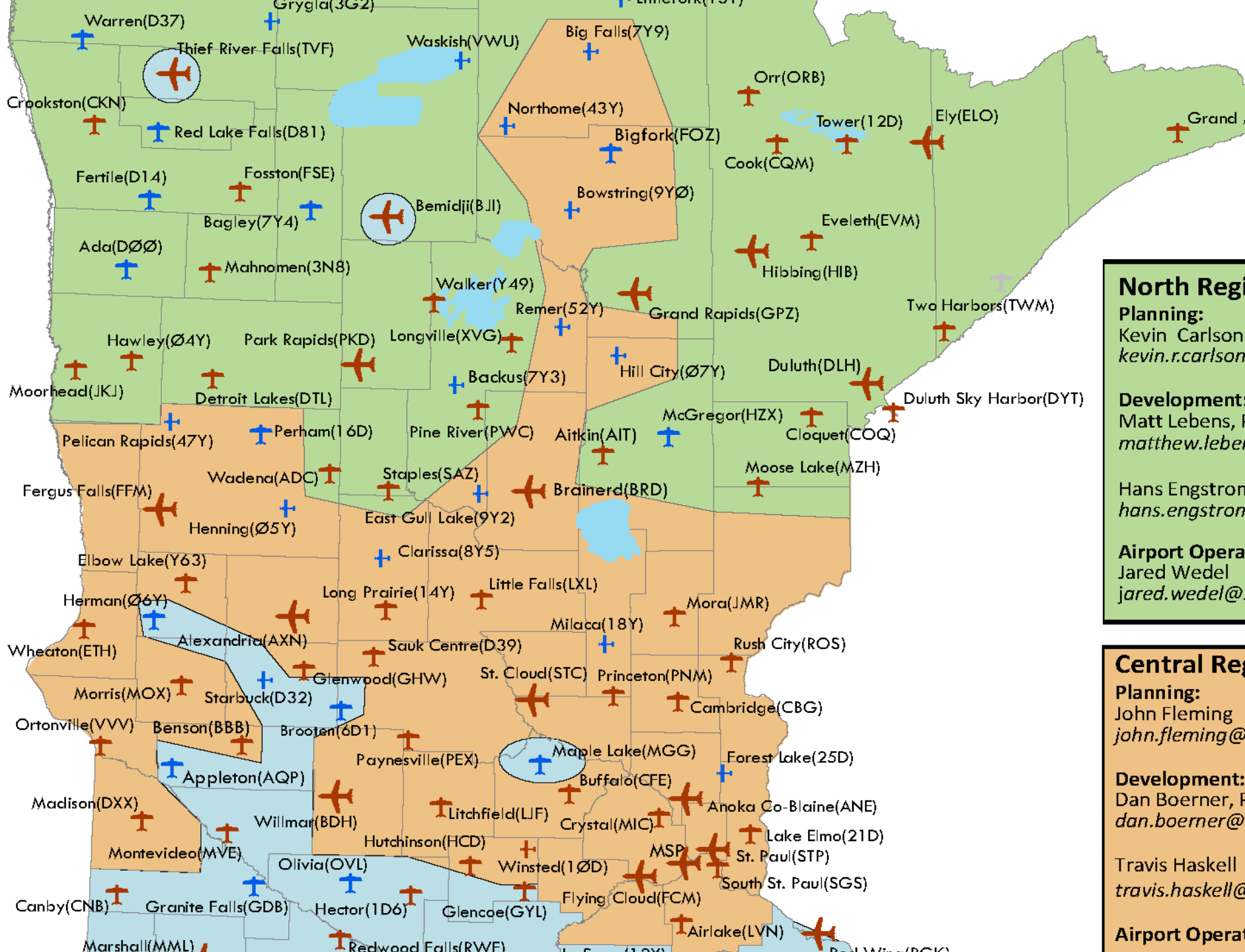
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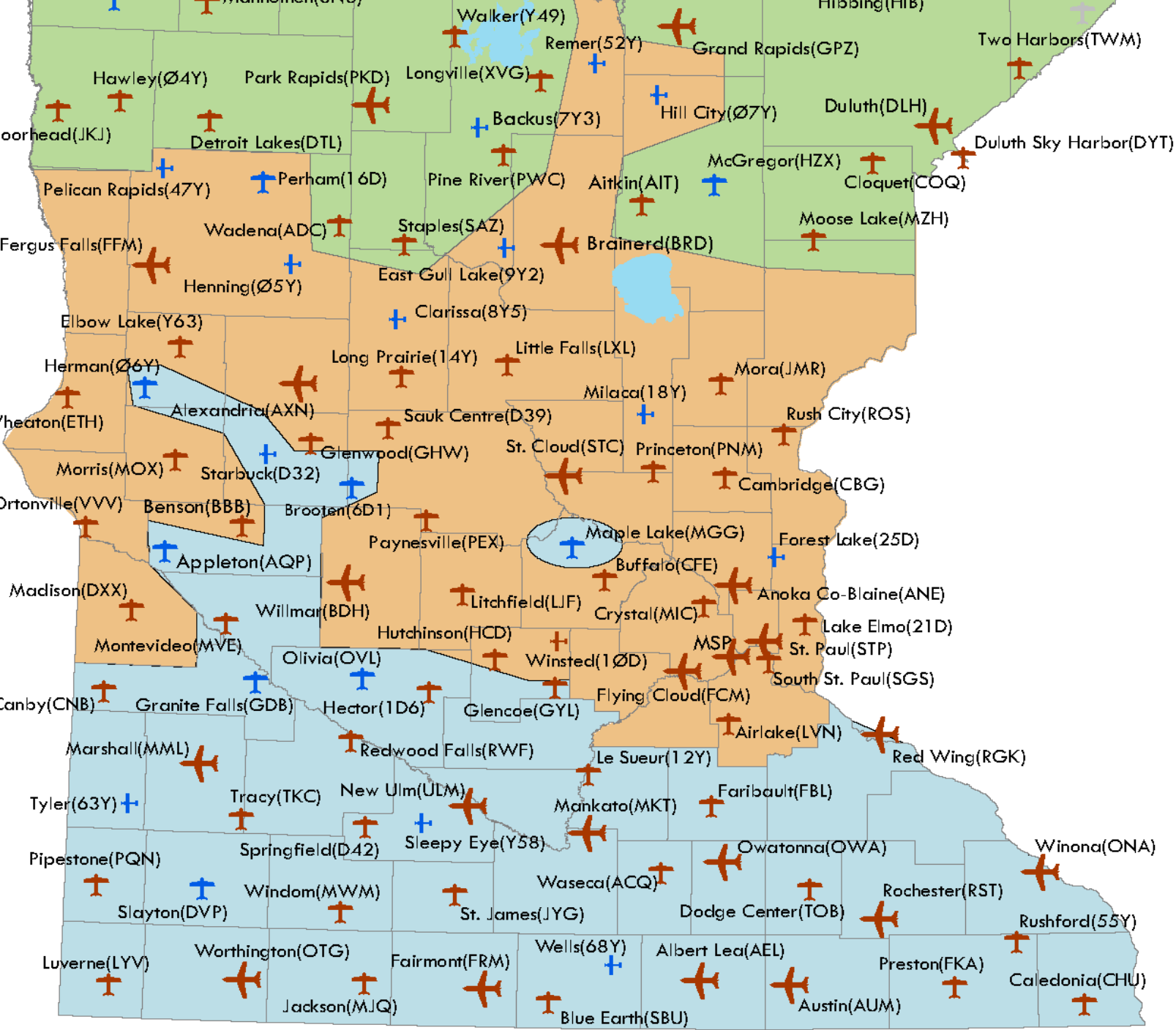
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Airport Operat...








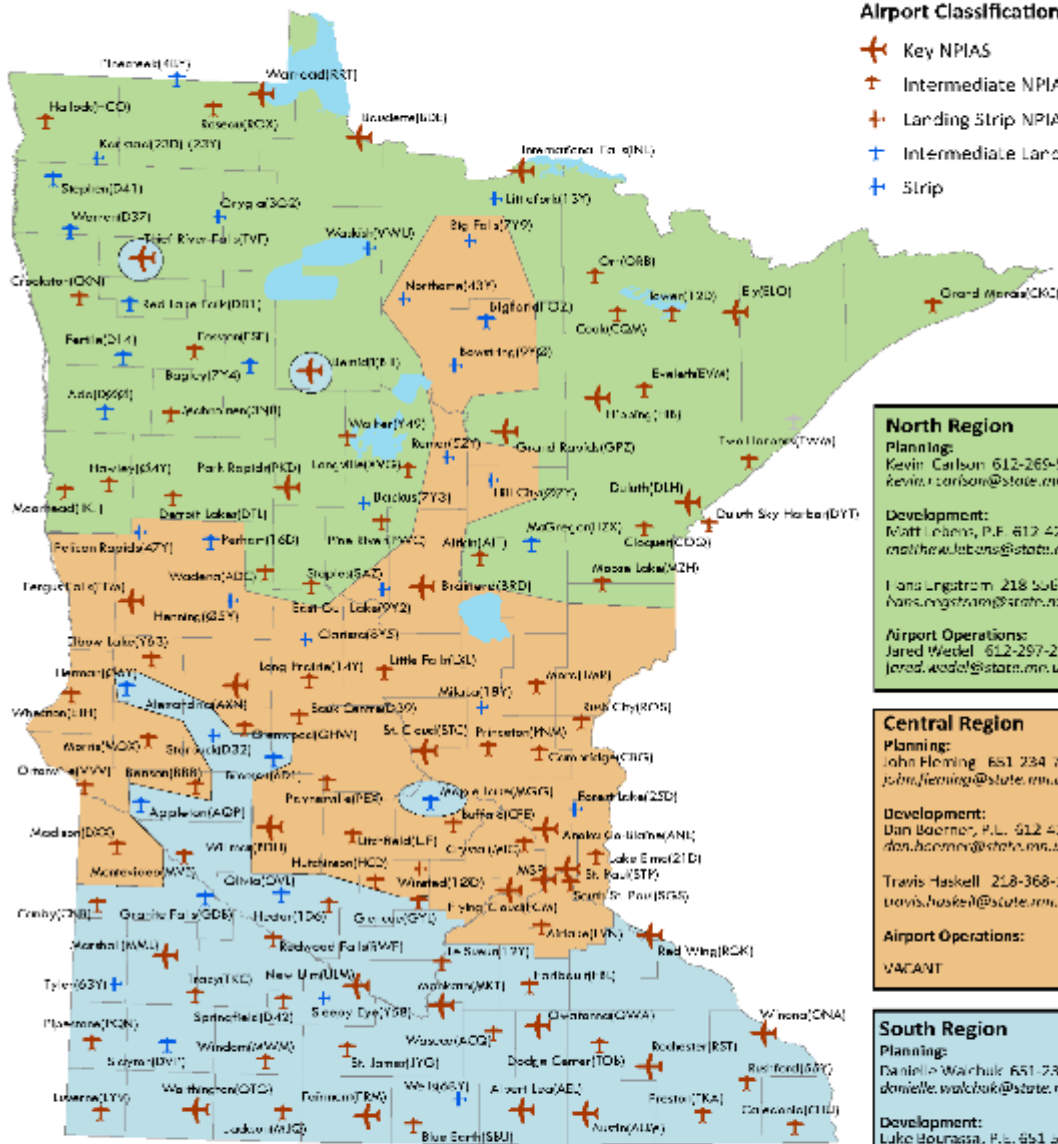
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-  Intermediate NPIAS
-  Landing Strip NPIAS
-  Intermediate Landing Strip
-  Strip



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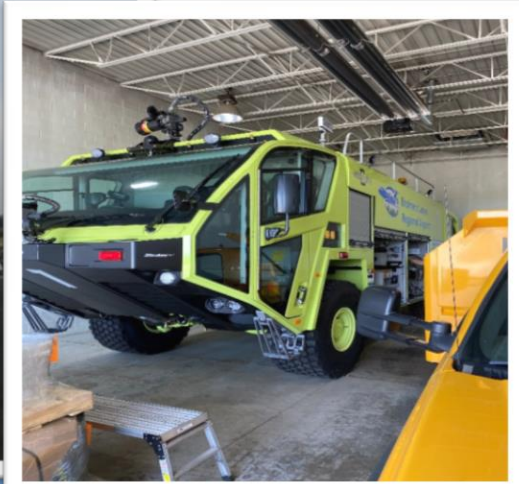
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Statewide Planning Staff
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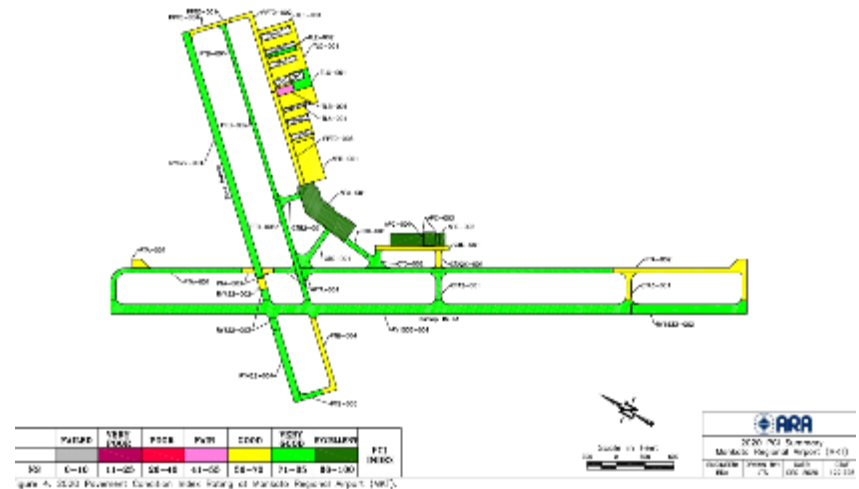
Development – Grant Types

- Planning Grants
 - Master Plans, ALP Updates, Airport Zoning, Environmental Studies
- Facilities Grants
 - Hangars, AD Buildings, Aprons, Runways, Taxiways, Nav Aids
- Equipment Grants
 - Snow Removal Equipment, Mowers, Tractors
- Maintenance and Operations Grants



Development – Pavement Management System

- Pavement condition data is collected annually
- 105 Airports are on a 3 year rotation
- The PCI evaluation makes possible forecasting of future deterioration and allows for accurate projections of maintenance and rehabilitative needs.





Education and Outreach

Darlene Dahlseide | Outreach Coordinator

Promoting Aviation

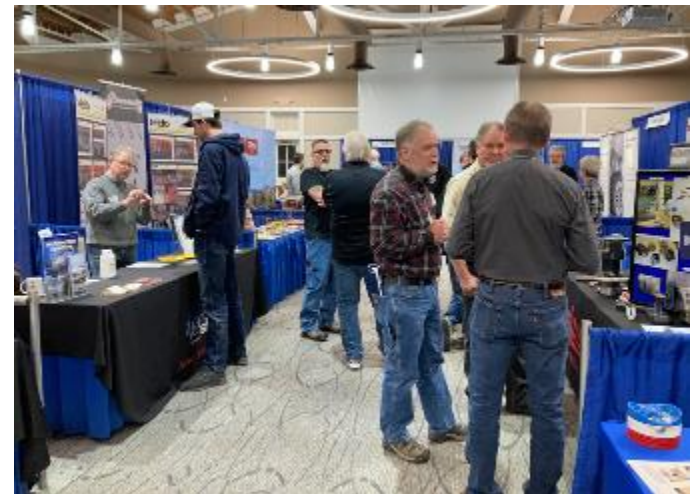


- **Aviation Events**

- Airshows
- GMAG & MCOA conferences
- Aircraft Maintenance Technician Conference

- **Career Fairs**

- High School



Career Information

**Minnesota Colleges and Universities...
offer quality and affordable aviation
education in many locations**



AVIATION PILOT

- Lake Superior College » Duluth, MN
- Minnesota State University » Mankato, MN
- Rochester Community & Technical College » Rochester, MN

UNMANNED AIRCRAFT SYSTEMS

- Northland Community & Technical College » Thief River Falls, MN



AVIATION MANAGEMENT

- Lake Superior College » Duluth, MN
- Minnesota State University » Mankato, MN

NONDESTRUCTIVE TESTING

- Ridgewater College » Hutchinson, MN



AVIATION MAINTENANCE TECHNICIAN

- Lake Superior College » Duluth, MN
- Minneapolis Community & Technical College » Minneapolis, MN
- Northland Community & Technical College » Thief River Falls, MN





Operations & Navigation Aids Sections

Tim Jarvis

Airport Operations Supervisor

Operations Section Overview

Operations

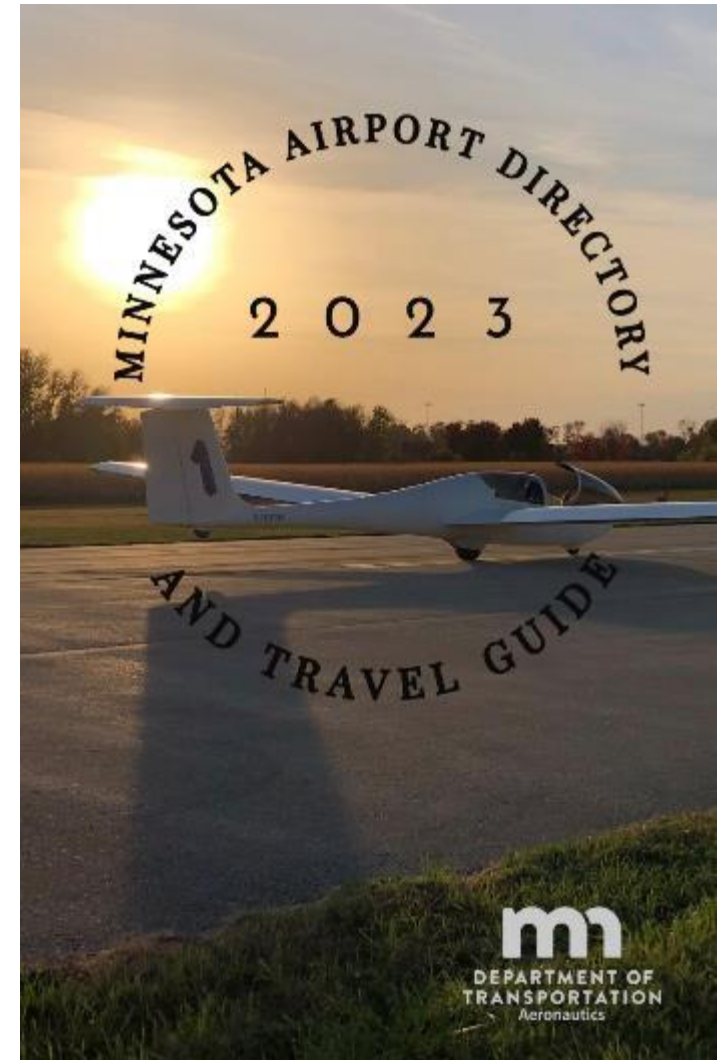
- Airport 5010 Inspections
- Regional Coordination
- Private Airport Inspections
 - Seaplane Bases
 - Heliports
- Licensing
 - Airport
 - Commercial Operations

Navigation Systems

- 140 state-owned systems navigational systems
- Manage, maintain, and new project coordination
- Lighting
- Contract management and negotiation

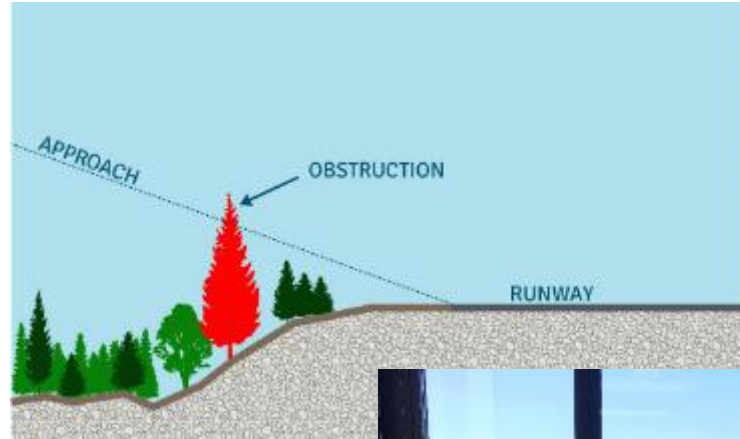
Operations

- Airport types that are inspected and licensed by Mn State:
 - Public, private, personal, heliports, seaplane bases
- Inspect and ensure airports are meeting minimum safety criteria and provide updated information on facilities to State and National publications
- Coordinate with the planning and development of airport improvement projects, voice for operational issues



Aviation Safety

- Work with the FAA to identify and resolve airspace and instrument approach issues
- Provide computers at most public airports for pilots to check the weather
- Provide windsocks for Public Use Airports
- Conduct Pilot and Mechanic Safety Seminars
- Work with communities to address issues with unmanned aircraft



Enforcement

- Ensure that airports meet the minimum safety criteria contained in Minnesota Rules
- Ensure that Commercial Operators comply with Minnesota requirements
- Ensure hospital heliports are safe locations for helicopters to land
- Require licensing for towers that affect airport operations

Public Airport Rules

- Runway – 2000 x 75(turf)
60(paved) ft
- Turf edge markers
- No Obstructions in Part 77
Approach Surface
- Buildings no closer than
250ft to centerline
- Windsock
- Adequate Fencing
- Fire Extinguishers if Fuel
dispensed
- Tiedowns
- Public Toilet
- Public Telephone
- Bulletin Board
- Open to anyone

Private vs Personal Airport Rules

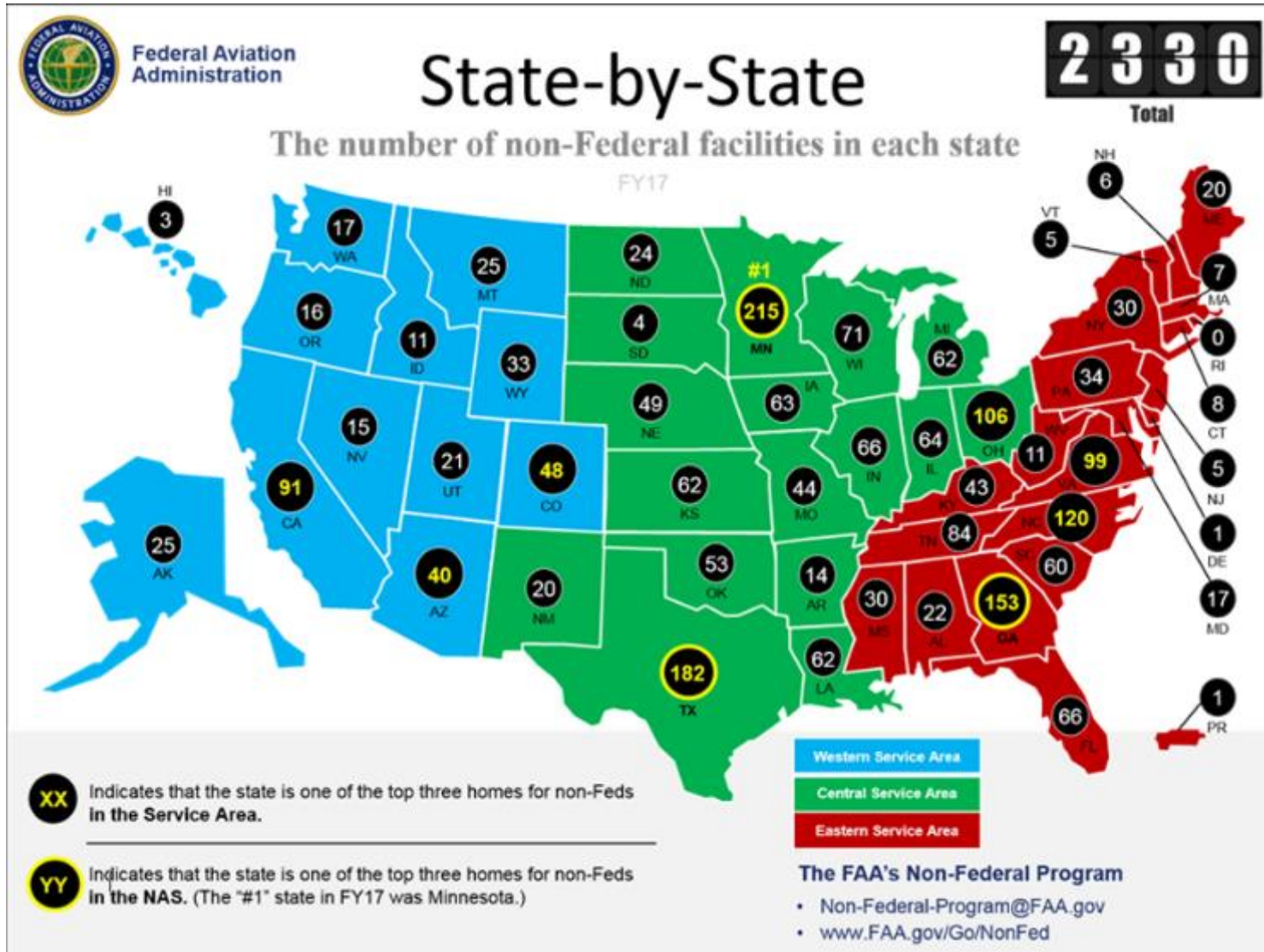
- Private

- 1000 x 60'(turf) 50'(Pave)
- Approach and primary surface Clear
- Turf Edge Markers
- Windsock
- Fire Extinguishers if Fuel dispensed
- No undue hazards to adjoining property or occupants
- Requires prior permission to land

- Personal-use

- Sufficient length and width for aircraft used
- No commercial activities (flight instructing, MX)
- No undue hazards to adjoining property or occupants
- Owner is the only person allowed to land

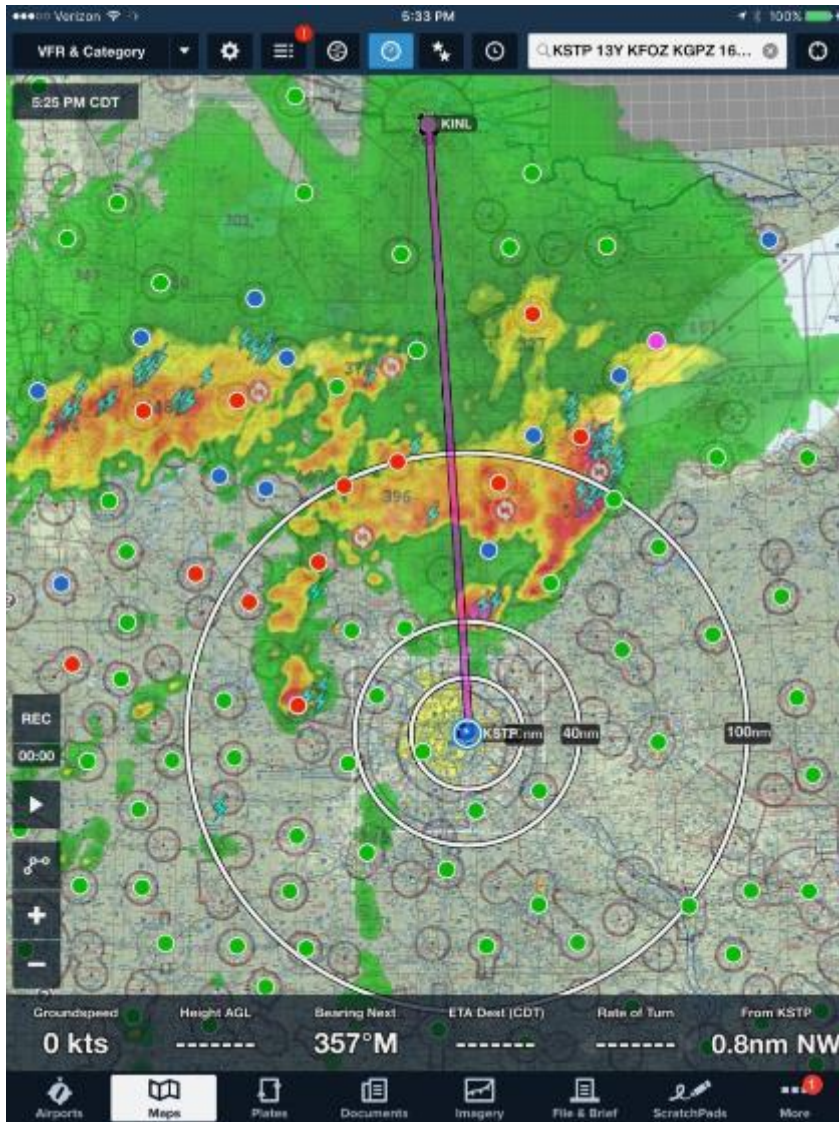
Non-Fed Nav Systems



Radio Navigation Systems



Automated Weather Observations Systems



Coming soon to MN Weather Camera's at Our Airports

- Installation scheduled for October 2023
- Four camera directions
- Latest image is 2.5 minutes old



Heber Valley (KHCR) UTC:14:45 Local:08:45

METAR KHCR 031435Z AUTO 07004KT 1SM -SN OVC006 M01/M03 A2956 RMK AO2

HEBER VALLEY (KHCR) 031435Z AUTO 07004KT 1SM -SN OVC006 M01/M03 A2956 RMK AO2

CLEARDAY VISUAL REFERENCE

7100' MSL
2.25 SM

MT. Timpanogas
11800' MSL
13.9M

Site Elevation: 5635' MSL

Show Camera Loop

North (0°)

SouthEast (129°)

SouthWest (223°)

Weather Data Weather Trends PIREP's Sectional RCO Airport Info NOTAMs (PilotWeb)

Know Before You Fly

DO:
FLY YOUR
UNMANNED
AIRCRAFT
BELOW
400 FEET



DO:
FLY WITH
LOCAL
CLUBS

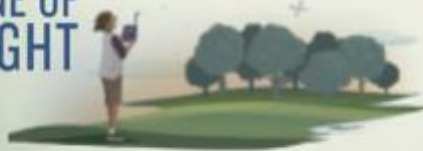


DO:
INSPECT
YOUR
AIRCRAFT
BEFORE
YOU FLY



DO:
TAKE A
LESSON
BEFORE
YOU FLY

DON'T:
FLY YOUR
UNMANNED
AIRCRAFT
BEYOND
LINE OF
SIGHT



DON'T:
FLY NEAR
AIRPORTS
OR ANY
MANNED
AIRCRAFT



DON'T:
FLY NEAR
PEOPLE
or
STADIUMS



DON'T:
BE CARELESS
or
RECKLESS.
YOU COULD
BE FINED
IF YOU
ENDANGER
PEOPLE
OR OTHER
AIRCRAFT



DON'T:
FLY ANYTHING
THAT WEIGHS
MORE THAN
55 LBS.

DON'T:
FLY FOR
PAYMENT
or
COMMERCIAL
PURPOSES
UNLESS
SPECIFICALLY
AUTHORIZED
BY THE FAA



Aeronautics supports MnDOT: UAS 2022 Year in Review

3D imaging, LIDAR



Inspections



Construction mapping



Type	2021 Hours - 2 Pilots	2022 Hours - 1 Pilot/1 PT Contract Pilot
Photos/Video	472	348
Stream/Traffic Study	208	128
Lidar	181	325
Construction Documentation	52	79
Training	180	32
2D/3D Mapping	179	57
MNROAD	89	105
POC	0	20
Total	1,361	1094








Photo and Video use

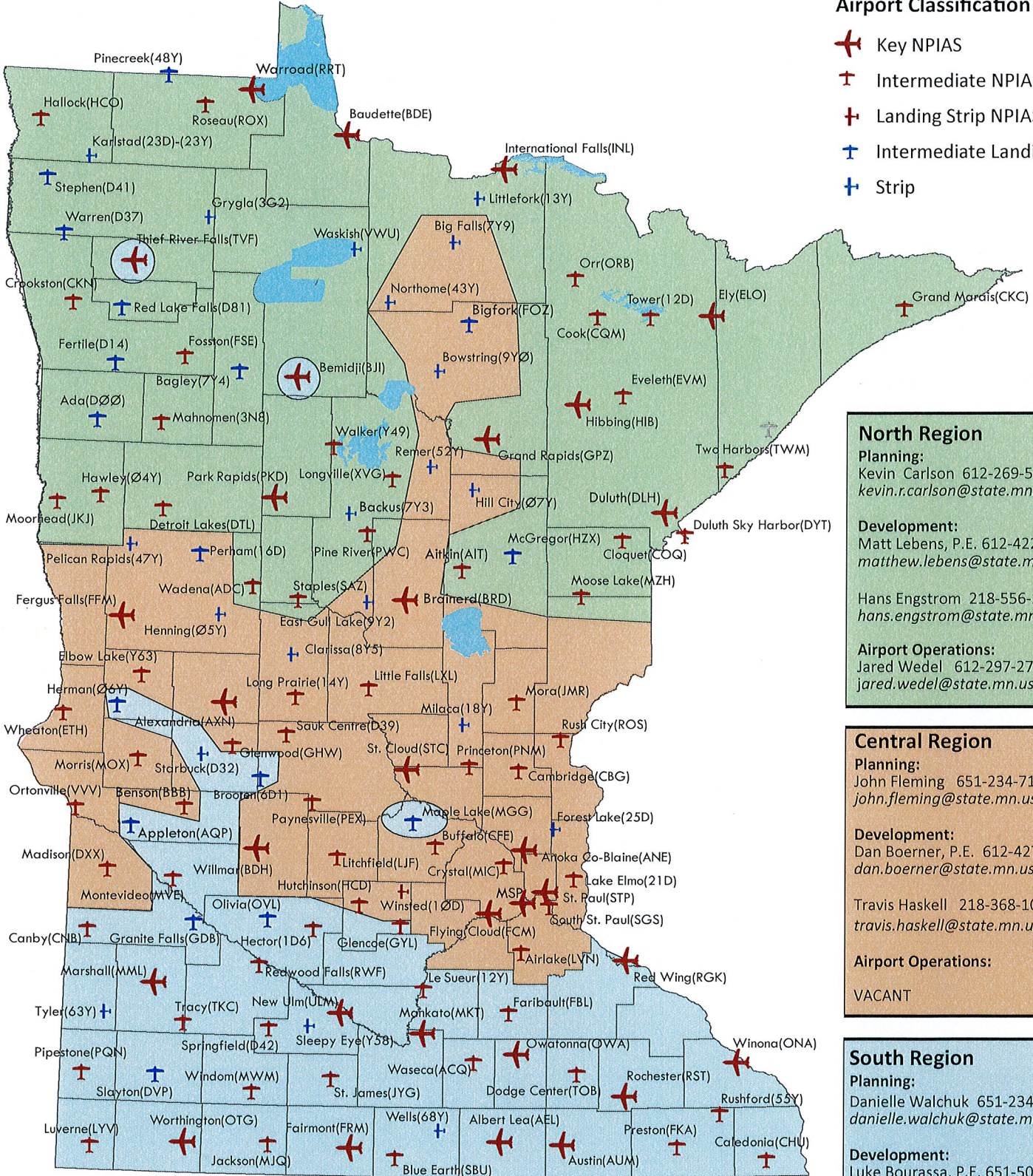
QUESTIONS



Thank you!

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-  Key NPIAS
-  Intermediate NPIAS
-  Landing Strip NPIAS
-  Intermediate Landing
-  Strip



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