

Dear Wisconsin aviators,

Thank you for your commitment to a critical service throughout Wisconsin.

Folks in Wisconsin elected me governor to make our transportation infrastructure work. Part of that job is making sure our 123 public-use airports are as safe, reliable and resilient as possible.

By working with our federal partners, we are ready to make major investments over the next five years through funding provided by the Bipartisan Infrastructure Law (BIL).

Nearly \$40 million in BIL funding is already allocated for improvements at many Wisconsin airports this year, part of approximately \$198 million dedicated to Wisconsin's airports over the next five years. In addition, \$5 billion in federal discretionary funding will be available over the next five years for airport terminal projects, including projects that expand accessibility for persons with disabilities, improve access, improve energy efficiency and improve safety. I will work hard to secure this funding and will continue to invest state resources, as my two budgets provided.

The United States built modern aviation, and it is time for us to elevate our airports. I want Wisconsin to lead the way. As hosts for more than 50 years of AirVenture Oshkosh, the world's greatest aviation celebration, we know how to showcase all the advantages of flight. Together we can seize this opportunity to make transformative improvements.

Thank you for your commitment to air travel in Wisconsin. I wish you safe flights and smooth landings.

Governor Tony Evers
State of Wisconsin

Welcome to the new edition of the Wisconsin Aeronautical Chart!



The Wisconsin Department of Transportation Bureau of Aeronautics (BOA) works hard to bring you this publication to support safe and enjoyable flights to our state's 123 public use airports.

The BOA's work is collaborative, and I want to thank all the airport owners, consultant engineers, the Federal Aviation Administration (FAA) and the construction industry who take part in airport improvements and informing this chart.

Projects such as pavement reconstruction, lighting and navigational aid improvements, and snow removal upgrades help make our airports safer, but that's not the whole picture. Your skills, knowledge and commitment to protocols are what allow air travel to work.

These skills are invaluable. And over the past few years, we should all appreciate the critical need for those who can make our transportation infrastructure more resilient and flexible.

If I can make one ask, it is to share these abilities with the next generation. Please introduce aviation to a young person - one flight may open up a new world and make us all the better for it.

Secretary Craig Thompson
Wisconsin Department of Transportation



Aeronautical Chart WISCONSIN 2022-2023



WISCONSIN PUBLIC USE AIRPORTS For information on tourism activities at Wisconsin airports visit www.travelwisconsin.com

Table with columns: CITY, AIRPORT NAME, ID, AIRPORT TELEPHONE, AWOS/ASOS VHF FREQ., AWOS/ASOS TELEPHONE, AMENITIES, LOCAL ATTRACTIONS. Lists 123 airports across Wisconsin with their respective details and icons for amenities like restaurants, lodging, and recreation.

KEY AMENITIES LOCAL ATTRACTIONS
Restaurants on site, Water Recreation, Fishing, Parks/Trails, Biking, Hunting, Shopping, Casino, Museum, Zoo, Snowmobile, Skiing



Who is eligible? Pilots and passengers from any state may participate in the program. Share your love of aviation. Participants are invited to join the Fly Wisconsin Facebook group to connect with other participants and share their adventures.

FLY WISCONSIN Airport Passport Program

The Wisconsin Department of Transportation and the Wisconsin Airport Management Association have teamed up to launch the Fly Wisconsin Airport Passport Program. The program promotes safety and education by awarding pilots and passengers for visiting Wisconsin airports and aviation attractions, as well as attending FAA safety seminars.

How to participate

Register for the Fly Wisconsin Airport Passport Program by visiting our website wisconsin.gov/flywi or mail in a registration card from a participating airport. Once you receive your passport booklet, start collecting airport stamps! Program rules and a list of stamp locations can also be found on our website.

Recognition awards

Table showing recognition awards: Bronze (Fly Wisconsin T-Shirt), Silver (Flight Bag), Gold (Leather Jacket or \$100 Gift Card and Patch). Totals: 125 airports, 3 attractions, 3 seminars.

UNMANNED AIRCRAFT SYSTEMS (UAS)



UAS are quickly becoming major users of the National Airspace System. UAS are aircraft which may require registration and their operators are pilots. All UAS pilots need to review local, state and federal regulations regularly and remain well clear of manned aircraft operations.

Download the FAA's BAUFLY Mobile App For further information: www.FAA.gov/UAS



AVIATION EVENTS

The Bureau of Aeronautics hosts a variety of conferences and seminars to promote knowledge sharing and relationship building within the Wisconsin aeronautical community. Here are just a few of the events we sponsor:

- Airport sponsor workshop
Airport operations symposium
Volk Field fly-in
Mechanics and IA renewal seminar

These events are open to anyone who wants to attend, but advanced registration may be required, feel free to call if there are questions.

Additionally, our website lists events hosted by airports such as:

- Pancake breakfasts
Airshows
Safety seminars
First responder/airport safety training
Fly-in/drive-ins
Much more

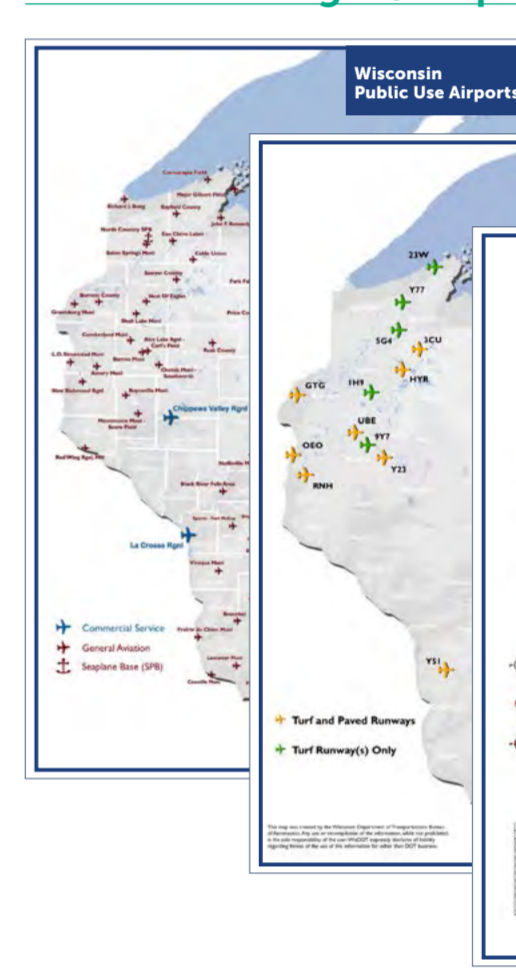
wisconsin.gov/airevents



AVIATION PUBLICATIONS

For a digital copy of the Wisconsin Aeronautical Chart, the Wisconsin Airport Directory and Pilot's Guide, other maps like these and more, please visit:

wisconsin.gov/av-pubs



RESTRICTED AREAS

Table with columns: NUMBER, LOCATION, ALTITUDE, TIME, CONTROLLING AGENCY ACTIVITY INFORMATION. Lists restricted areas like R-6901A, R-6901B, R-6903, R-6904A, R-6904B, and R-4305.

NOTE: Information is subject to change, check official sources prior to flight in or near restricted areas. Time shown is local. No person shall operate an aircraft within a Restricted Area between the designated altitudes during the time of designation unless prior permission has been issued.

MILITARY OPERATIONS AREAS

Table with columns: MOA NAME, EFFECTIVE ALTITUDES, DAYS/TIMES USED, CONTROLLING AGENCY ACTIVITY INFORMATION. Lists MOAs like Big Bear, Volk Falls, Volk West, Volk South, Volk East, Minnow, Ontonagon, Snoopy East, and Snoopy West.

NOTE: Information is subject to change, check official sources prior to flight in or near MOAs. Time shown is local. For further information, monitor 134.35, 120.0, or call Volk ANGB Scheduling Office at (608) 427-1275.

AVIATION EDUCATION

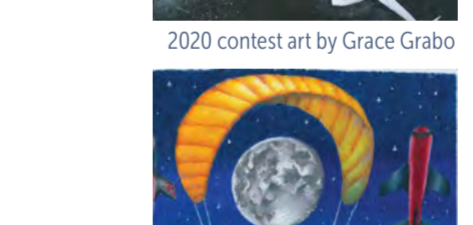
Are you interested in an aviation career? Would you like resources and educational opportunities for students? Visit our website for information on these things and more:

- Aviation art contest
K-12 educational programs and resources
Aviation Youth Apprenticeships
Aviation summer camps and programs
Wisconsin air and space museums
Wisconsin flight schools
Aviation degree programs in Wisconsin
Scholarship information
Aviation Careers Education (ACE) program



To learn more about Aviation Education or to partner with us, contact the Aviation Education Program Manager at meredith.latt@dot.wis.gov

wisconsin.gov/aviationeducation



DOING BUSINESS WITH THE BUREAU OF AERONAUTICS

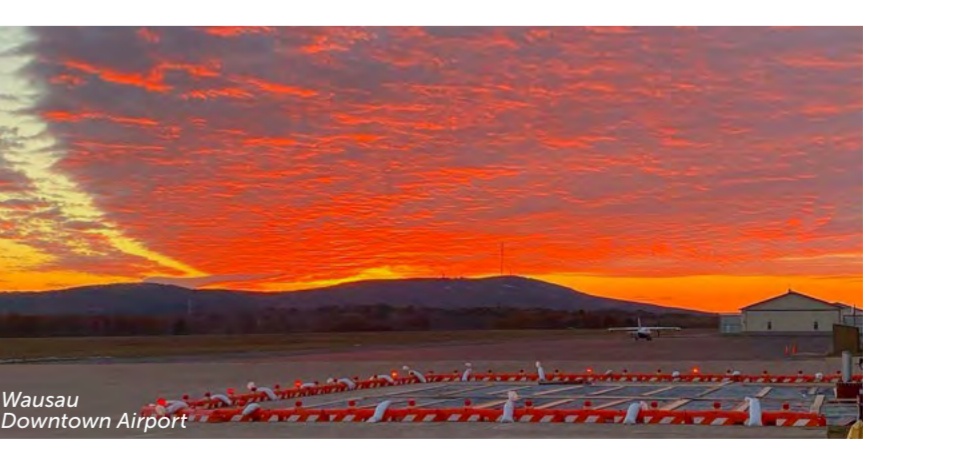
The Wisconsin State Airport System is a global gateway that safely, responsibly and efficiently meets business, passenger, freight and recreational air transportation needs. The bureau's team of aviation specialists provide airport sponsors professional guidance to manage and utilize their airports to the safest and fullest potential for the communities they support.

Infographic showing statistics: 9,500 Pilots, 8,000 Certified mechanics or other positions, 5,945 Registered aircraft, 5 million Annual passengers. Also shows 123 Public airports, 540 Approved landing sites, 138 Miles of public runway. IMPACT: Near 100,000 Jobs, \$8 Billion Output.

Protecting our airports, and the airspace above and around them, is vital to ensure their safety and usefulness for decades to come. The bureau coordinates these business services and more:

- Landing site approvals
Tall structure permitting
Planning
Airport security
Wildlife management
Compliance
Aircraft registration
Studies and reports

wisconsin.gov/aeronautics



CONTACT INFORMATION

Table with columns: Department, Phone Number. Lists Main Office, Aircraft Registration, Airport Engineering Section, Airport Program Section, Aeronautical and Technical Services Section, and Website.

Copies of this chart may be obtained from Wisconsin Department of Transportation, Bureau of Aeronautics, P.O. Box 7914, Madison, WI 53707-7914. Produced and distributed by the Wisconsin Department of Transportation, Bureau of Aeronautics, in the interest of promoting air navigation safety with data current as of April 2022. Funded in part by Wisconsin aircraft registration fees and aviation user fees.

WISCONSIN AERONAUTICAL CHART



WEATHER

All pilots know that weather is one of the greatest and most difficult safety risks to assess. It is important to stay proficient with weather knowledge, resources and assessment skills. Be sure to check NOTAMS often for runway/airport/field condition (FICOM) reports and closure information. WisDOT offers a one-of-a-kind specialized weather briefing and flight planning tool developed by DTN. To sign up for this free service visit: wisconsin.gov/weather

SAFETY

We all have a role in reducing accidents, incidents and fatalities. Although flying is still one of the safest modes of transportation, we can all work together and find ways to prevent accidents. Wisconsin pilots and mechanics have worked very hard to successfully improve our safety record, and many of them are actively participating in the FAA Wings program by attending FAA Safety Seminars across our state. wisconsin.gov/avtraining

REPORT WILDLIFE STRIKES
wildlife.faa.gov

RUNWAY INCURSIONS

Runway incursions continue to be a complex and prevalent issue. Many factors lead up to a runway incursion, excursion or incident. Pilots can help lower the number of occurrences by staying focused while the aircraft is moving, being familiar with the airport and current airport diagrams, and checking NOTAMS often for construction, weather and other non-typical situations. Pilots must plan properly for all phases of flight and that includes understanding the airport environment. It is also equally important to fully understand and follow ATC clearances and instructions and know all airport signs and markings. "Line Up and Wait" has replaced the "Position and Hold" instruction for taxiing onto a runway to await takeoff clearance.

STOP
 If you are unsure of clearance instructions, where you are or what to do, STOP and ask ATC for help!

ATCT Light Gun Signals

COLOR AND TYPE OF SIGNAL	AIRCRAFT ON THE GROUND	AIRCRAFT IN FLIGHT
STEADY GREEN	Cleared for takeoff	Cleared to land
FLASHING GREEN	Cleared for taxi	Return for landing
STEADY RED	STOP	Give way and continue circling
FLASHING RED	Taxi clear of the runway in use	Airport unsafe, do not land
FLASHING WHITE	Return to starting point on airport	-
ALTERNATING RED/GREEN	-	EXERCISE EXTREME CAUTION

RUNWAY CONDITION ASSESSMENT MATRIX (RCAM)

RUNWAY CONDITION DESCRIPTION	FICOM CODE	BRAKING ACTION
Dry	6	Good
Frost Wet (includes damp and less than 1/8 inch depth or less of water)	5	Good
Less than 1/8 inch (3mm) depth of: Slush Dry snow Wet snow	4	Good to Medium
5°F (-15°C) and colder outside air temperature Compacted snow	3	Medium
Slippery when wet (wet runway) Dry snow or wet snow (dry depth) over compacted snow	2	Medium to Poor
Greater than 1/8 inch (3mm) depth of: Dry snow Wet snow	1	Poor
Warmer than 5°F (-15°C) outside air temperature: Compacted snow	0	Nil
Greater than 1/8 inch (3mm) depth of: Water Slush Ice Wet ice Slush over ice Water over compacted snow Dry snow or wet snow over ice	0	Nil

For additional information see FAA Advisory Circular 91-79A

WILDLIFE

BOA has resources to help mitigate impacts to and from wildlife on and near Wisconsin airports. Additionally, wildlife may be attracted to local projects like landfills and retention/detention ponds which could adversely impact aircraft and airport operations. Proper planning and coordination is the first step in protection our states aeronautical investments. For further information or assistance regarding wildlife concerns please contact Michael Menon at michael.menon@dot.wi.gov

PILOT'S GUIDE TO AIRPORT SIGNS AND MARKINGS

Airport Signs

TYPE OF MARKING	ACTION OR PURPOSE	TYPE OF MARKING	ACTION OR PURPOSE
B 4-22	TAXIWAY/RUNWAY HOLDING POSITION: Hold short of intersecting runway	ILS CRITICAL AREA BOUNDARY: When exiting runway, sign shows boundary of ILS Critical Area	RUNWAY BOUNDARY: Exit boundary of runway or approach protected areas
25-7	RUNWAY/RUNWAY HOLDING POSITION: Hold short of intersecting runway	RUNWAY EXIT: Defines direction and designation of exit taxiway from runway	TAXIWAY DIRECTION: Defines direction and designation of intersecting taxiway(s)
8-APCH	RUNWAY APPROACH HOLDING POSITION: Hold short of protected area when instructed by ATC	NO ENTRY: Identifies paved areas where AIRCRAFT entry is prohibited	OUTBOUND DESTINATION: Defines direction to take-off runways
ILS	ILS CRITICAL AREA HOLDING POSITION: Hold short of ILS critical area when instructed by ATC	TAXIWAY LOCATION: Identifies taxiway location where AIRCRAFT is located	INBOUND DESTINATION: Defines directions for arriving aircraft
NO ENTRY	Identifies paved areas where AIRCRAFT entry is prohibited	RUNWAY LOCATION: Identifies runway on which vehicle/aircraft is located	TAXIWAY ENDING MARKER: Indicates taxiway does not continue
B	TAXIWAY LOCATION: Identifies taxiway location where AIRCRAFT is located	RUNWAY DISTANCE REMAINING: Identifies runway distance remaining in increments of 1,000 feet	DIRECTION SIGN ARRAY: Identifies location in conjunction with multiple intersecting taxiways
22	RUNWAY LOCATION: Identifies runway on which vehicle/aircraft is located	ELEVATED GUARD LIGHTS HOLD SHORT	IN-PAVEMENT GUARD LIGHTS HOLD SHORT
4	RUNWAY DISTANCE REMAINING: Identifies runway distance remaining in increments of 1,000 feet		

www.faa.gov/airports/runway_safety

Airport Markings

TYPE OF MARKING	ACTION OR PURPOSE	TYPE OF MARKING
HOLDING POSITION: Hold short of intersecting runway; also a land-and-hold-short marking	HOLDING POSITION WITH ENHANCED TAXIWAY CENTERLINE: Alerts of an approaching runway	NON-USABLE
ILS CRITICAL AREA: Hold short when instructed by ATC	TAXIWAY/TAXIWAY HOLDING POSITION: Hold short of intersecting taxiway when directed by ATC	SOLID TAXIWAY EDGE: Defines edge of usable, full-strength taxiway pavement; adjoining pavement NOT USABLE
(NOMI) MOVEMENT AREA BOUNDARY: Defines boundary of movement area and non-movement area	SURFACE PAINTED HOLDING POSITION: Designates runway ahead in conjunction with yellow holding position marking	TYPE OF MARKING
1419	SURFACE PAINTED TAXIWAY DIRECTION: Direction and designation of intersecting taxiway	AVAILABLE
1419	SURFACE PAINTED TAXIWAY LOCATION: Identifies taxiway on which aircraft is located	DASHED TAXIWAY EDGE: Defines edge of taxiway where adjoining pavement or apron IS AVAILABLE for taxi
1419	SURFACE PAINTED TAXIWAY LOCATION: Identifies taxiway on which aircraft is located	ACTION OR PURPOSE

References: Aeronautical Information Manual (AIM), AC 90-678 - Light Signals from the Control Tower for Ground Vehicles, Equipment, and Personnel; AC 150/5340-1L - Standards for Airport Markings; and AC 150/5340-18 - Standards for Airport Sign Systems.