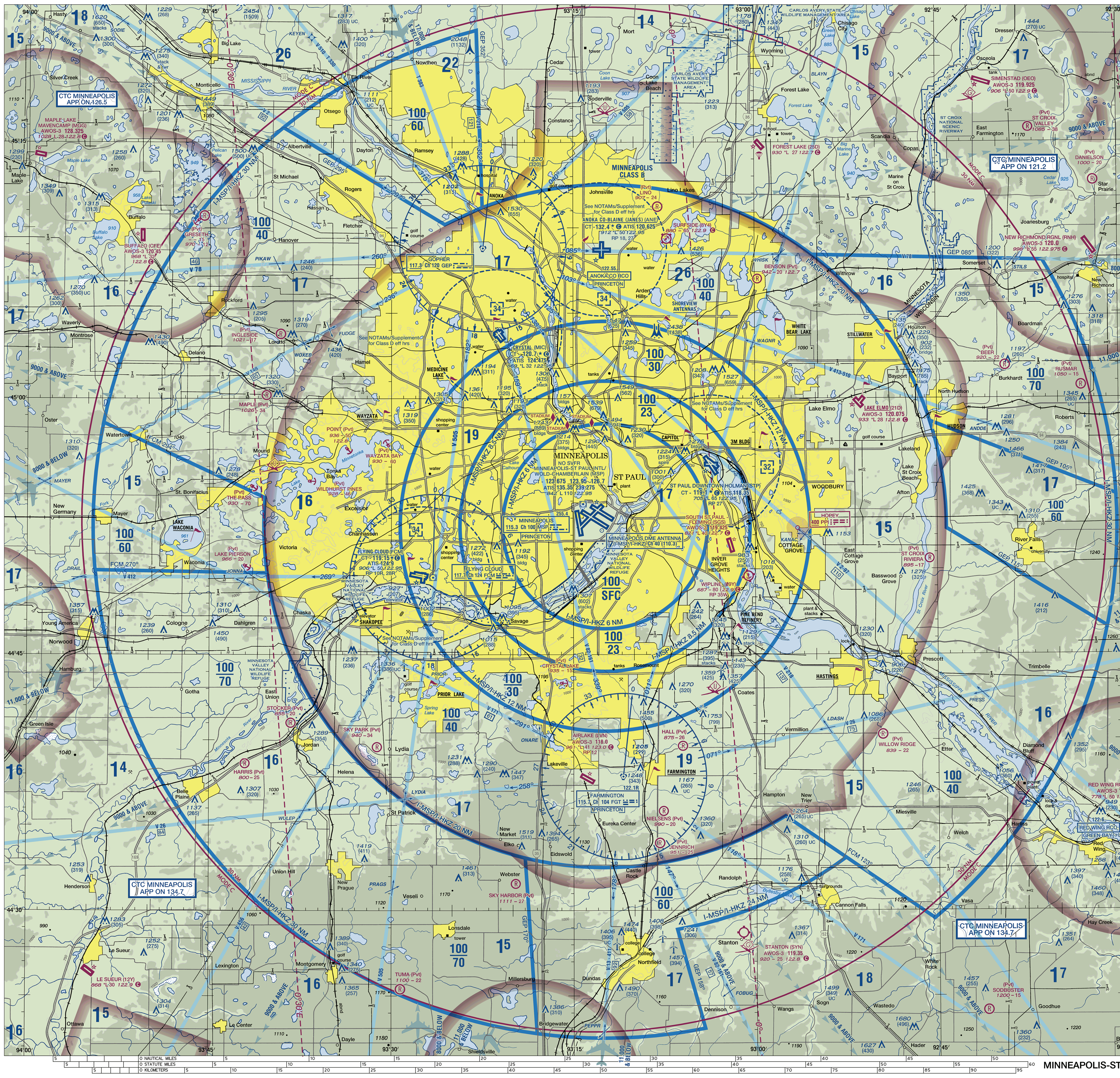
MINNEAPOLIS · SAINT PAUL VICINITY CHART



AIRPORT NAME	IDENT	CHART COORD	CTAF (TWR*)
Ada/Twin Valley - Norman County	D00	6C	122.9
Aitkin - Steve Kurtz Field	AIT	7H	123.05
Albert Lea	AEL	13I	123.0
Alexandria - Chandler Field	AXN	9E	123.0
Appleton	AQP	10C	122.9
Austin	AUM	13J	122.7
Backus	7Y3	7F	122.9
Bagley	7Y4	5E	122.9
Baudette	BDE	3F	122.8
Bemidji	BJI	5F	122.8
Benson - Veterans Field	BBB	10D	122.8
Big Falls	7Y9	4H	122.9
Bigfork	FOZ	5H	122.9
Blue Earth	SBU	13G	122.8
Bowstring	9Y0	5H	122.9
Brainerd Lakes Regional	BRD	8G	122.7
Brooten - John O. Bohmner Field	6D1	10E	122.9
Buffalo	CFE	10H	122.8
Caledonia - Houston County	CHU	13L	122.9
Cambridge	CBG	10I	122.8
Canby - Myers Field	CNB	11C	122.9
Clarissa	8Y5	8F	122.9
Clear Lake - Leaders'	8Y6	10G	122.9
Cloquet - Carlton County	COQ	7J	122.8
Cook	CQM	5J	122.9
Crookston - Kirkwood Field	CKN	5B	122.7
Detroit Lakes - Wething Field	DTL	7C	122.8
Dodge Center	TOB	13J	122.9
Duluth International	DLH	7K	118.3*
Duluth Sky Harbor	DYT	7K	122.7
East Gull Lake	9Y2	8G	122.9
Elbow Lake - Pride of the Prairie	Y63	9D	122.9
Ely	ELO	5L	122.8
Eveleth - Virginia	EVM	6K	122.7
Fairmont	FRM	13G	122.8
Faribault - Liz Wall Strofus Field	FBL	12I	122.8
Fergus Falls - Einar Mickelson Field	FFM	8C	122.8
Fertile	D14	5C	122.8
Forest Lake	25D	10I	122.7
Fosston - Anderson Field	FSE	5D	122.9
Glencoe - Vernon Perschau Field	GYL	11G	122.8
Glenwood	GHW	9E	122.9
Grand Marais - Cook County	CKC	5O	122.8
Grand Rapids - Gordon Newstrom Field	GPZ	6H	122.8
Granite Falls - Lenzen-Roe-Fagen Memorial Field	GDB	11D	122.8
Grygla - Mel Wilkens Field	3G2	4D	122.9
Hallock	HCO	3B	122.8
Hawley	04Y	7C	122.8
Hector	1D6	11F	122.8
Henning	05Y	8E	122.9
Herman	06Y	9C	122.9
Hibbing - Range Regional	HIB	6J	123.0
Hill City - Quadna Mountain	07Y	7H	122.9
Hinckley - Field of Dreams	04W	9J	122.9
Hutchinson - Butler Field	HCD	11G	122.8
International Falls	INL	3I	122.8
Jackson	MJQ	13E	122.8
Karlstad	23D	3B	122.9
Le Sueur	12Y	12H	122.9
Litchfield	LJF	10F	122.9
Little Falls - Morrison County	LXL	9G	122.8
Littlefork - Hanover	13Y	4H	122.9
Long Prairie - Todd Field	14Y	9F	122.9
Longville	XVG	7G	122.9
Luverne - Quentin Aanenson Field	LYV	13C	122.7
Madison/Lac Qui Parle County - Bud Frye Field	DXX	11C	122.8
Mahnomen	3N8	6D	122.9
Mankato Regional - Sohler Field	MKT	12H	122.725
Maple Lake - Bill Mavencamp Sr. Field	MGG	10H	122.8
Marshall - SW Minnesota Regional - Ryan Field	MML	12D	122.8
McGregor - Isedor Iverson	HZX	7I	122.9
Milaca	18Y	9H	122.9
Minneapolis - Airlake	LVN	11I	123.0
Minneapolis - Anoka County - Janes Field	ANE	10I	132.4*
Minneapolis - Crystal	MIC	10I	120.7*
Minneapolis - Flying Cloud	FCM	11I	119.15*
Minneapolis-St. Paul Int. - Wold Chamberlain	MSP	11I	----

AIRPORT NAME	IDENT	CHART COORD	CTAF (TWR*)
Montevideo - Chippewa County	MVE	10D	122.8
Moorhead	JKJ	7B	123.0
Moose Lake - Carlton County	MZH	8J	122.9
Mora	JMR	9I	122.8
Morris - Charlie Schmidt Field	MOX	9D	122.8
New Ulm	ULM	12G	122.8
Northome	43Y	5G	122.9
Olivia Regional	OVL	11E	122.8
Orr Regional	ORB	5J	122.8
Ortonville - Martinson Field	VVV	10C	122.8
Owatonna Degner Regional	OWA	12I	122.7
Park Rapids - Konshok Field	PKD	7E	123.0
Paynesville	PEX	10F	122.9
Pelican Rapids - Lyon's Field	47Y	7C	122.9
Perham	16D	7D	122.9
Pine River	PWC	7G	122.9
Piney - Pinecreek Border	48Y	2D	122.8
Pipestone	PQN	13C	122.8
Preston - Fillmore County	FKA	13K	122.9
Princeton	PNM	9H	123.0
Red Lake Falls	D81	5C	122.9
Red Wing Regional	RGK	11J	123.05
Redwood Falls	RWF	11E	123.0
Remer	52Y	6H	122.90
Rochester International	RST	13J	118.3*
Roseau - Rudy Billberg Field	ROX	3D	122.8
Rush City Regional	POS	9J	122.9
Rushford - Robert W. Bunke Field	55Y	13L	122.9
St. Cloud Regional	STC	9G	118.25*
St. James	JYG	13F	122.9
St. Paul Downtown - Holman Field	STP	11I	119.1*
St. Paul - Lake Elmo	21D	11J	122.8
Sauk Centre	D39	9F	122.9
Slayton	DVP	13D	122.9
Sleepy Eye	Y58	12F	122.9
South St. Paul - Fleming Field	SGS	11I	122.7
Springfield	D42	12F	122.8
Stanton	SYN	12I	122.8
Staples	SAZ	8F	122.9
Starbuck	D32	9D	122.9
Stephen	D41	4B	122.7
Thief River Falls Regional	TVF	4C	122.8
Tower	12D	5K	122.9
Tracy	TKC	12D	122.9
Two Harbors - Richard B. Helgeson Field	TWM	7L	122.9
Tyler	63Y	12C	122.9
Wadena	ADC	8E	122.8
Walker	Y49	6F	122.9
Warren	D37	4B	122.8
Warroad International Memorial	RRT	3E	123.05
Waseca	ACQ	12H	122.8
Waskish	VWU	4F	122.9
Wells	68Y	13H	122.9
Wheaton	ETH	9B	122.8
Willmar - John L. Rice Field	BDH	10E	122.9
Windom	MWM	13E	122.9
Winona - Max Conrad Field	ONA	12L	122.8
Winsted	10D	11G	122.9
Worthington	OTG	13D	122.8
SEAPLANE BASE			
Baudette International	BDE	3F	122.8
Bemidji - Moberg Air Base	96M	5F	122.8
Crane Lake - Scott's	CDD	4K	122.8
Deerwood - Birch Lake	M69	8H	122.9
Duluth - Sky Harbor	DYT	7K	122.7
East Gull Lake - Steamboat Bay	M16	8G	122.9
Elbow Lake - Pride of the Prairie	Y63	9D	122.9
Eveleth - Sky Harbor	9Y5	6K	122.7
Grand Marais - Cook County	0G5	5O	122.8
Hibbing - Carey Lake	9MN0	6J	123.0
International Falls	09I	3I	122.8
Inver Grove Heights - Wipline	09Y	11I	122.9
Lino Lakes - Surfside	8Y4	10I	122.9
Tower	12D	5K	122.9
Waubun - Jolly Fisherman	M49	6D	122.9

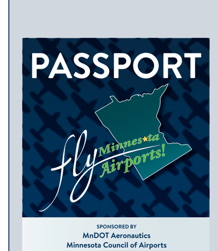
Notice to users: This chart is not to be used for navigation.

The information depicted is current as of January 2021 to the extent that it was known. The data is subject to change. Consult federally-produced aeronautical charts, publications, and NOTAM's for up-to-date information. Consistent with a World Aeronautical Chart, obstructions less than 1,000' AGL have been eliminated from this chart.

Publisher and printer make no warranty, expressed or implied, and furthermore expressly disclaim liability for the accuracy and completeness of data provided.

For errors, omissions, or comments concerning this chart, please contact MnDOT - Aeronautics, 395 John Ireland Blvd., Mailstop 410, St. Paul, MN 55155. Email: aeroinfo@state.mn.us.

FLY MINNESOTA AIRPORTS PASSPORT PROGRAM



Fly Minnesota Airports is a program sponsored by the Minnesota Department of Transportation – Aeronautics and the Minnesota Council of Airports to promote general aviation in Minnesota.

This program rewards any FAA licensed pilot from any state who flies to Minnesota's public-use airports, attends safety seminars, and visit Minnesota's aviation museums. Fly Minnesota Airports program promotes safety, education, and encourages pilots to practice approaches and landings in many different environments. It's also a great way to support general aviation airports, businesses, and tourism.

Just visit one of the airports listed in this passport and place the airport stamp in the appropriate box for the airport. The stamps are located near the weather computer. If you are unable to get a stamp at a Minnesota airport due to it missing, ask an airport operator (if available) to sign and date your passport and/or take a digital photo in front of the airport sign or the arrival/departure building.

HOW TO PARTICIPATE

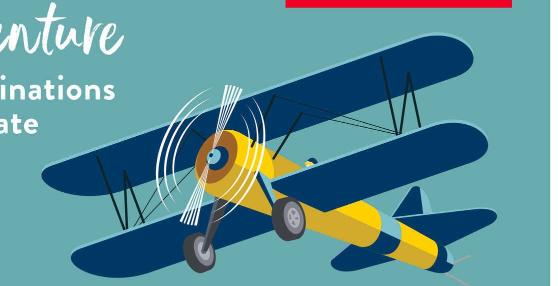
Questions and how to register for the Fly Minnesota Airports! Passport Program online at https://www.dot.state.mn.us/aero/aviationeducation/aviation passport/registrationpass.html

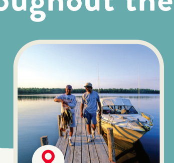
If you have any questions, please email aeroinfo@state.mn.us.

PLAN YOUR NEXT *Minnesota adventure*

to these and other destinations throughout the state

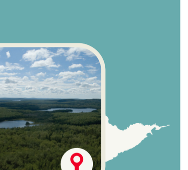
#EXPLORE MN AGAIN



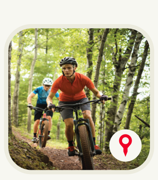


WARROAD
Lake of the Woods
Enjoy world-class fishing on famous Lake of the Woods.

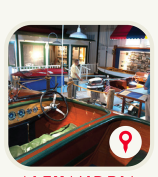
CROOKSTON
Glacial Ridge National Wildlife Refuge
Visit the site of the largest prairie-wetland restoration effort in the history of the US.



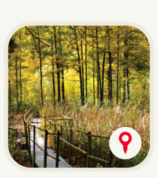
GRAND MARAIS
Eagle Mountain
Hike to the highest point in MN, taking in scenic vistas along the way.



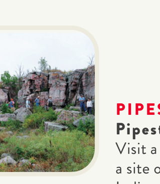
AITKIN
Cuyuna Country State Recreation Area
Hit the trail on a world-class mountain bike trail system with awe-inspiring views.



ALEXANDRIA
Legacy of the Lakes Museum
See exhibits that celebrate the culture and experiences of Minnesota lake life.



CRYSTAL
Theodore Wirth Regional Park
Explore one of the nation's best park systems through a variety of outdoor activities at this 740-acre park.



PIPESTONE
Pipestone National Monument
Visit a centuries-old pipestone quarry, a site of significance to American Indians for ceremonial pipe-making.

RUSHFORD
International Owl Center
Observe owls in nearby Houston and learn about these nocturnal raptors, and about the Center's research and education efforts.

EXPLORE MINNESOTA
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TRAVEL MINNESOTA BY PLANE

ATCT LIGHT GUN SIGNALS

Color & Type of Signal	Aircraft on the Ground	Aircraft in Flight
STEADY GREEN	Cleared for Takeoff	Cleared to Land
FLASHING GREEN	Cleared to Taxi	Return for Landing (followed by steady grean)
STEADY RED	Stop	Give way to other aircraft and continue circling
FLASHING RED	Taxi Cleared of the Runway in Use	Airport unsafe, do not land
FLASHING WHITE	Return to Starting Point on Airport	Not applicable
ALTERNATING RED/GREEN	Exercise Extreme Caution	Exercise Extreme Caution

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 B4UFLY Mobile App
www.FAA.gov/UAS
https://faadronezone.faa.gov

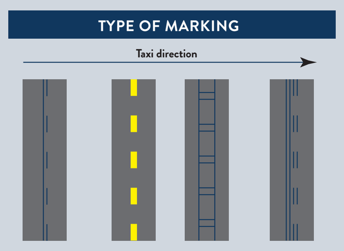
PERSONAL MINIMUMS CHECKLIST

Think...
PILOT
AIRCRAFT
EN**V**IRONMENT
EXTERNAL PRESSURES

FOR MORE INFORMATION GO TO:
www.faasafety.gov

AIRPORT MARKINGS

TYPE OF MARKING



ACTION OR PURPOSE

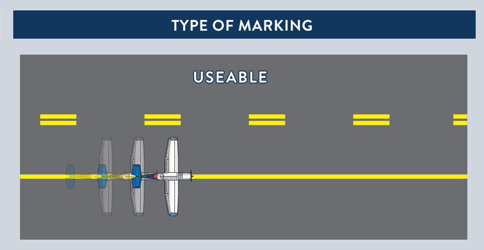
Holding Position:
Denotes entrance to a runway from a taxiway, approach hold position on a taxiway, or LAHSO holding position on a runway.

ILS Critical Area Boundary:
Denotes entrance to an area to be protected for an ILS signal.

Taxiway/Taxiway Holding Position:
Denotes location on taxiway or apron where aircraft hold short of another taxiway.

Non-Movement Area Boundary:
Delineates movement area under control of ATC, from non-movement area.

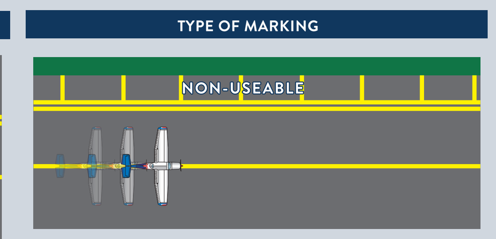
TYPE OF MARKING



ACTION OR PURPOSE

Taxiway Edge: Dashed Double Yellow Lines
Defines taxiway edge where adjoining pavement IS USABLE, such as along an apron or ramp.

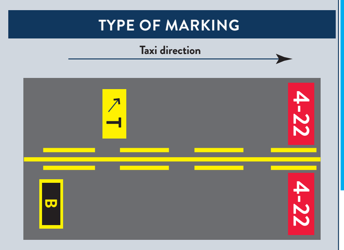
TYPE OF MARKING



ACTION OR PURPOSE

Taxiway Edge: Solid Double Yellow Lines
Defines edge of usable, full strength taxiway. Adjoining pavement IS NOT intended for use by aircraft.

TYPE OF MARKING



ACTION OR PURPOSE

Surface Painted Holding Position:
Denotes entrance to a runway from a taxiway.

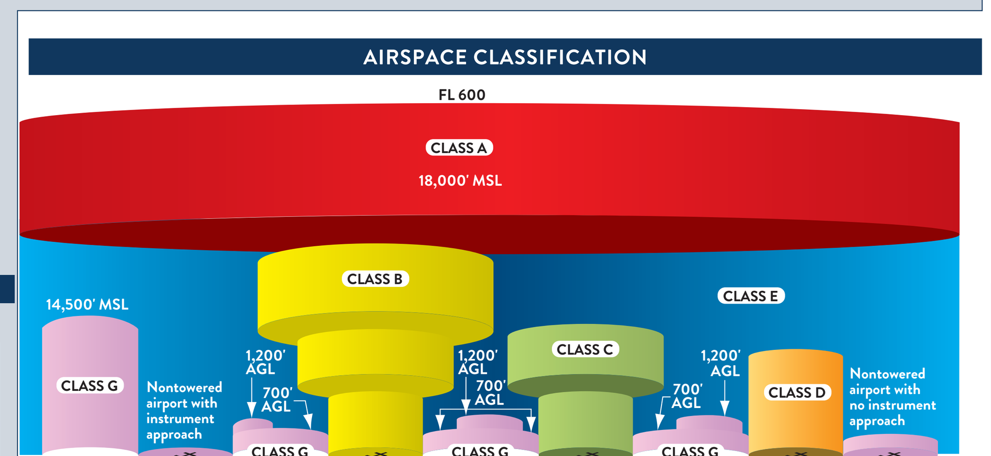
Enhanced Taxiway Centerline:
Provides visual cue to help identify location of a runway holding position on a taxiway. These markings are installed 150 feet prior to the holding position markings.

Surface Painted Taxiway Direction:
Defines designation/direction of intersecting taxiway(s).

Surface Painted Taxiway Location:
Identifies taxiway on which the aircraft is located.

FOR AVIATION EVENTS IN MINNESOTA GO TO:
www.mndot.gov/aero

AIRSPACE CLASSIFICATION



	CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	CLASS G
Entry Requirements	ATC clearance	ATC clearance	Prior two-way communications	Prior two-way communications	Prior two-way communications*	Prior two-way communications*
Minimum Pilot Qualifications	Instrument rating	Private or Student certification—local restrictions apply.	Student certificate	Student certificate	Student certificate	Student certificate
Two-way Radio Communications	Yes	Yes	Yes	Yes	Yes, under IFR flight plan*	Yes*
Special VFR Allowed	No	Yes	Yes	Yes	Yes	N/A
VFR Visibility Minimum	N/A	3 statute miles	3 statute miles	3 statute miles	3 statute miles**	1 statute mile†
VFR Minimum Distance From Clouds	N/A	Clear of clouds	500' below, 1,000' above 2,000" horizontal	500' below, 1,000' above 2,000" horizontal	500' below, 1,000' above 2,000" horizontal	Clear of clouds †
VFR Aircraft Separation	N/A	All	IFR aircraft	Runway operations	None	None
Traffic Advisories	Yes	Yes	Yes	Workload permitting	Workload permitting	Workload permitting
Airport Application	N/A	• Radar • Instrument approaches • Weather • Control tower • High density	• Radar • Instrument approaches • Control tower	• Instrument approaches • Weather • Control tower	• Instrument approaches • Weather	• Control tower

*Exception:temporary tower or control tower present
**True only below 10,000 feet
†True only during day at or below 1,200 feet AGL (see 14 CFR part 91)

AGL—above ground level
FL—flight level
MSL—mean sea level

AIRPORT SIGNS

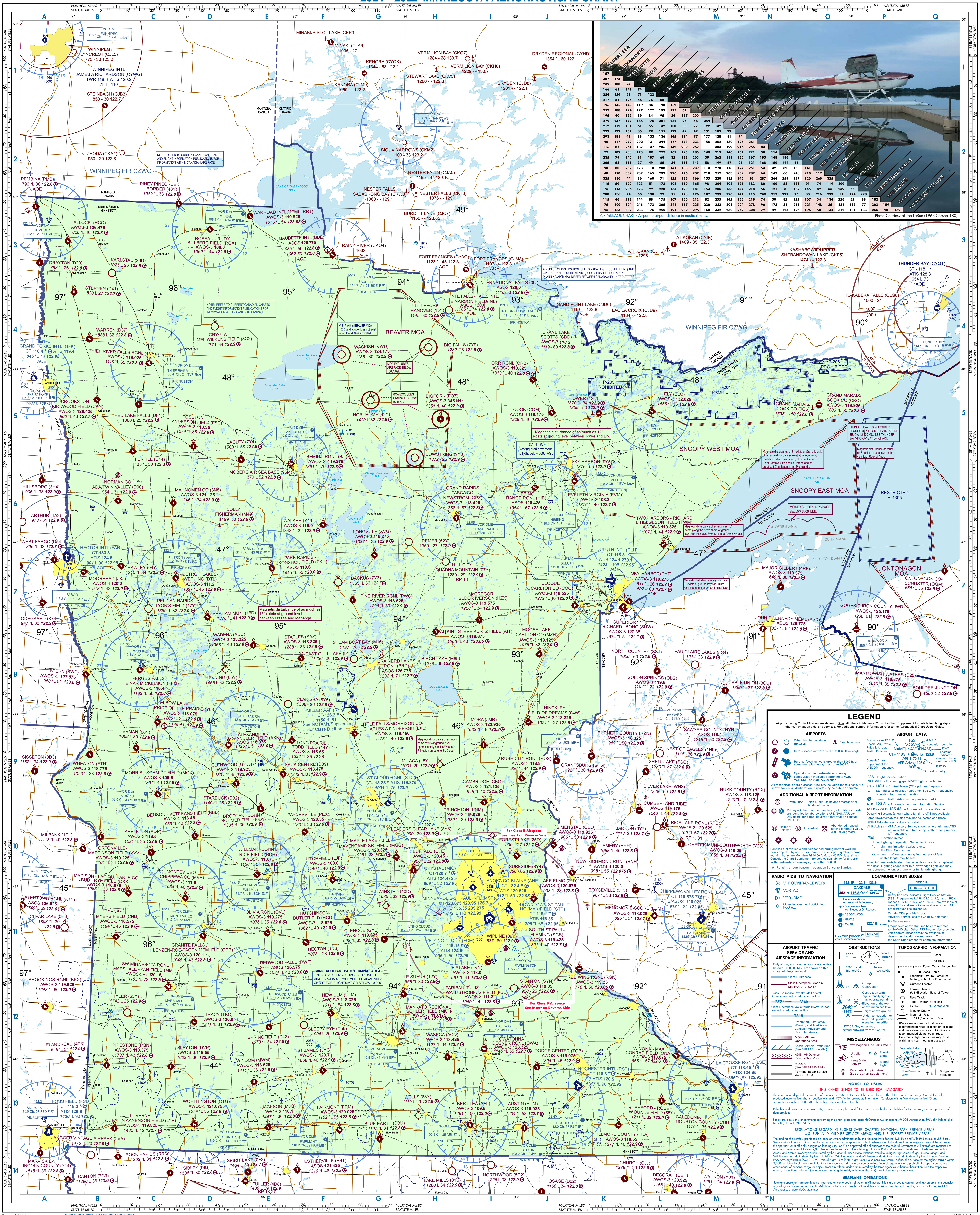
TYPE OF SIGN	ACTION OR PURPOSE	TYPE OF SIGN	ACTION OR PURPOSE
A 4-22	**Taxiway/Runway Hold Position:** Holding position for RWY 4-22 on TWY A.		**Runway Safety Area Boundary:** Identifies exit boundary of runway safety area.
26-8	**Runway/Runway Intersection:** Identifies intersecting runways or holding position for LAHSO operations.		**ILS Critical Area Boundary:** Identifies exit boundary of ILS critical area.
B 8-APCH	**Runway Approach Hold Position:** Runway approach holding position for RWY 8 on TWY B.	↙J↗	**Taxiway Direction:** Defines direction and designation of intersecting taxiway(s).
C ILS	**ILS Critical Area Hold Position:** Holding position for the ILS critical area on TWY C.	←K	**Runway Exit:** Defines direction and designation of exit taxiway from runway.
⊖	**No Entry:** Identifies paved areas where aircraft entry is prohibited.	22 ↑	**Outbound Destination:** Defines directions to takeoff runway(s).
B	**Taxiway Location:** Identifies taxiway on which aircraft is located.	↖MIL	**Inbound Destination:** Defines directions to destination for arriving aircraft.
22	**Runway Location:** Identifies runway on which aircraft is located.		**Taxiway Ending Marker:** Indicates taxiway does not continue.
4	**Runway Distance Remaining:** Provides remaining runway length in 1,000-foot increments.	↙A G L→	**Direction Sign Array:** Identifies location in conjunction with multiple intersecting taxiways.

OPERATIONAL RUNWAY CONDITION ASSESSMENT MATRIX (RCAM) BRAKING ACTION CODES AND DEFINITIONS

ASSESSMENT CRITERIA: Runway Condition Description	RwyCC	CONTROL/BRAKING ASSESSMENT CRITERIA: Decelerationor Directional Control Observation	Pilot Reported Braking Action
• Dry	6	---	---
• Frost • Wet (Includes damp and 1/8 inch depth or less of water) / 1/8 inch (3mm) depth or less of: • Slush • Dry Snow • Wet Snow	5	Braking deceleration is normal for the wheel braking effort applied AND directional control is normal.	Good
-15°C and Colder outside air temperature: • Compacted Snow	4	Braking deceleration OR directional control is between Good and Medium.	Good to Medium
• Slippery When Wet (wet runway) • Dry Snow or Wet Snow (any depth) over Compacted Snow / Greater than 1/8 inch (3mm) depth of: • DrySnow • WetSnow / Warmer than -15°C outside air temperature: • Compacted Snow	3	Braking deceleration is noticeably reduced for the wheel braking effort applied OR directional control is noticeably reduced.	Medium
Greater than 1/8 inch (3 mm) depth of: • Water • Slush	2	Braking deceleration OR directional control is between Medium and Poor.	Medium to Poor
• Ice	1	Braking deceleration is significantly reduced for the wheel braking effort applied OR directional control is significantly reduced.	Poor
• Wet Ice • Slush over Ice • Water over Compacted Snow • Dry Snow or Wet Snow over Ice	0	Braking deceleration is minimal to non-existent for the wheel braking effort applied OR directional control is uncertain.	Nil

Note: The **Assessment Criteria** and **RwyCC** portion of the RCAM is associated with how an airport operator conducts a runway condition assessment.
Note: The **Control/Braking Assessment Criteria** portion of the RCAM is associated with the pilot's experience with braking action.
Note: The Operational RCAM illustration will differ from the RCAM illustration used by Airport Operators.
Note: Runway condition codes, one for each third of the landing surface, for example 4/3/3, represent the runway condition description as reported by the airport operator.

2021 - 2022 MINNESOTA AERONAUTICAL CHART



Scale 1:1,000,000

Cartography produced by MnDOT Aeronautics
in partnership with MnDOT Geographic Information & Mapping

1 inch = approx. 16 Statute Miles