

Wausau Downtown Airport

PDF navigation

- Click CONTENTS in blue navigation bar to go to Table of Contents.
- Click on an item in the Table of Contents listing to go to its page.
- Click COVER in blue navigation bar to go to cover page.
- Click MAP in blue navigation bar to go to Wisconsin State Airport System Map.
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- Because this is a large document, consider printing the single pages of interest to you.

Table of Contents

- 1 Director's Message
- 2 Wisconsin State Airport System Map
- **3** Facts and Figures
- 7 Tall Structures and Airspace Studies
- **9** Funding
- 11 Outreach
- 12 Airport Safety and Pilot Education Events in 2020
- 12 Airport Projects Recognized
- **13** Publications

Director's Message



I am pleased to present the Wisconsin Department of Transportation, Bureau of Aeronautics 2020 Annual Report. This report reviews the aviation activity and accomplishments in Wisconsin that occurred during the last year.

Wisconsin, the nation and the world have faced unprecedented challenges in 2020. With the unexpected emergence of the global pandemic and its impact on aviation, our commitment has been to assist airports in addressing the transformed environment in which we all do business. Our mission is to provide leadership to maintain and develop a safe and efficient air transportation system. Assisting airport sponsors to identify, manage and address the many challenges they face to develop and maintain a safe and efficient airport is also an important element in our mission.

Our bureau managed more than \$73 million in funding and 94 airport projects in 2020.

Airport projects varied widely, from pavement reconstruction to purchasing snow removal equipment and building fuel facilities.

In addition to specialized engineering and planning services, our team assists airport sponsors on environmental matters, land use planning, runway safety issues and federal grant assurances. Our bureau takes pride in working with the airport sponsors to ensure they have all the tools needed to maintain and develop their airport.

Pilot safety courses, aviation education and airport security are also part of our commitment to the Wisconsin aviation community. We conducted several virtual aviation education and outreach events last year, as well as over 40 Pro-Tips Webinars in partnership with the Federal Aviation Administration Milwaukee and Minneapolis Flight Standards District Offices.

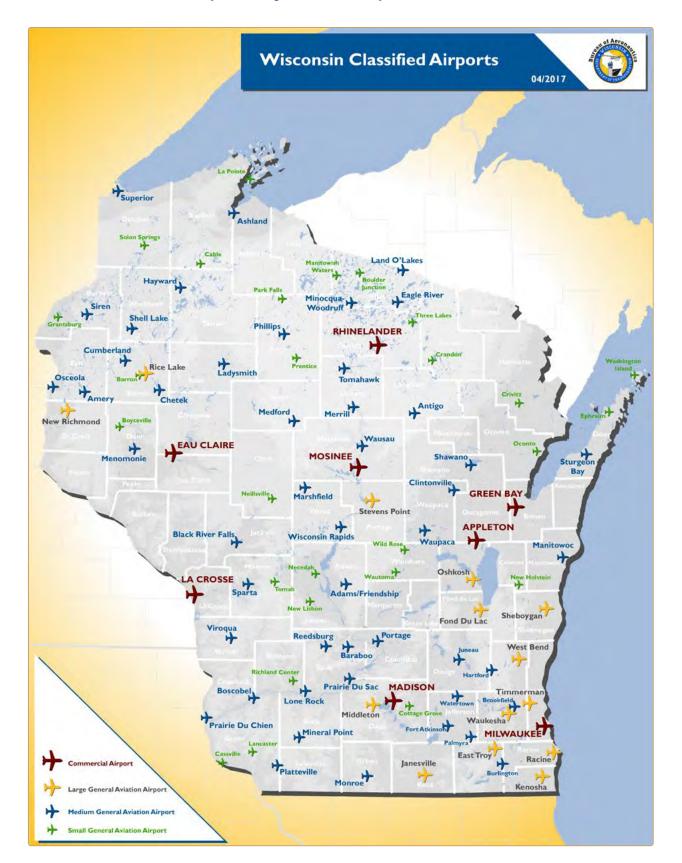
This report illustrates our bureau's commitment to provide assistance to Wisconsin's aviation community. We look forward to another successful year.

David M. Greene Director



General Mitchell International Airport

Wisconsin State Airport System Map



Facts and Figures



La Crosse Regional Airport

Service Providers

Scheduled air carrier airports	8
Commercial airlines serving the state	10
Cargo-air charter	4
Airports with based jets	32
Airports with 5000-foot or greater runways	41

Source: Bureau of Aeronautics

Weather Gathering and Dissemination Systems

State-owned automated weather observation system (AWOS)	51
Federal-owned automated surface observation system (ASOS)	18

Source: FAA

Registered Aircraft

Airplanes	4,335
Rotorcrafts	85
Ultralights	56
Sail Planes	33
Lighter than Air	51
Light Sport	217
Sea Planes	52

Source: Bureau of Aeronautics

Landing Facilities in Wisconsin

Airports in the State Airport System	97
Privately-owned, public use airports	30
*Private use airports	290
Heliports (public and private)	109
Seaplane bases (public and private)	16

Source: FAA *2020 FAA audit of private air facilities

COVER CONTENTS MAP wisconsindot.gov/av-pubs

Facts and Figures



Flight for Life

Air Medical Services based in Wisconsin

SERVICE NAME	BASE SITE	CITY
Eagle III (Heli and fixed wing)	Austin Straubel International Airport	Green Bay
Flight for Life	Waukesha County Airport Fond du Lac County Airport	Waukesha Fond du Lac
GundersenAIR	Sparta/Fort McCoy Airport	Sparta
Thedastar	Theda Clark Medical Center	Neenah
UW Med Flight	University Hospital Iowa County Airport Divine Savior Healthcare	Madison Mineral Point Portage
Aspirus MedEvac	Wausau Downtown Airport	Wausau
Mayo Clinic Medical Transport	Chippewa Valley Regional Airport	Eau Claire
Life Link III	Rice Lake Regional Airport Marshfield Medical Center	Rice Lake Marshfield
North Memorial Air Care	Burnett County Airport	Siren
Ascension Wisconsin Spirit Medical Transport	Central Wisconsin Regional Airport	Mosinee

Source: FAA

Facts and Figures

AIRPORT OPERATIONS AT TOWERED AIRPORTS

LOCATION/COMMERCIAL AIRPORTS	CY2016	CY2017	CY2018	CY2019	CY2020	% CHANGE (19-20)
Milwaukee-General Mitchell International	113,715	112,345	111,712	106,561	71,096	-33%
Madison—Dane County Regional	81,419	83,529	87,578	81,786	68,038	-17%
Green Bay—Austin Straubel International	49,479	45,358	47,752	44,904	31,238	-30%
Appleton—Appleton International Airport	34,302	32,234	34,458	37,809	31,072	-18%
La Crosse—La Crosse Municipal	19,323	18,416	19,608	20,090	15,104	-25%
Eau Claire—Chippewa Valley Regional	22,509	20,149	21,836	19,694	17,406	-12%
Mosinee—Central Wisconsin	12,375	12,424	12,624	13,574	11,792	-13%
Subtotal	333,122	324,455	335,568	324,418	245,746	-24%
LOCATION/GENERAL AVIATION TOWERED AIRPORTS	CY2016	CY2017	CY2018	CY2019	CY2020	% CHANGE (19-20)
Kenosha—Kenosha Regional	46,868	48,722	59,128	68,899	56,067	-19%
Kenosha—Kenosha Regional Oshkosh—Wittman Regional	46,868 66,950	48,722 62,952	59,128 74,558	68,899 59,029	56,067 48,252	-19% -18%
Oshkosh—Wittman Regional	66,950	62,952	74,558	59,029	48,252	-18%
Oshkosh—Wittman Regional Janesville—Southern Wisconsin Regional	66,950 31,222	62,952 32,606	74,558 37,674	59,029 55,806	48,252 48,642	-18% -13%
Oshkosh—Wittman Regional Janesville—Southern Wisconsin Regional Waukesha—Crites Field	66,950 31,222 38,178	62,952 32,606 33,543	74,558 37,674 44,044	59,029 55,806 44,048	48,252 48,642 48,402	-18% -13% 10%
Oshkosh—Wittman Regional Janesville—Southern Wisconsin Regional Waukesha—Crites Field Milwaukee—Lawrence Timmerman	66,950 31,222 38,178 24,875	62,952 32,606 33,543 27,730	74,558 37,674 44,044 26,030	59,029 55,806 44,048 31,988	48,252 48,642 48,402 35,112	-18% -13% 10% 10%

 $[*]Sparta-Ft.McCoy \ airport \ tower \ was \ closed \ March-September \ (COVID); \ Source: \ FAA \ Air \ Traffic \ Activity \ System - Airport \ Operations \ 1/22/21$

Air Carrier Revenue Passenger Enplanements

LOCATION/COMMERCIAL AIRPORTS	CY2016	CY2017	CY2018	CY2019	CY2020	% CHANGE (19-20)
Milwaukee—General Mitchell International	3,327,536	3,414,477	3,496,724	3,374,073	1,309,967	-61%
Madison—Dane County Regional	903,155	943,363	1,043,185	1,162,024	422,167	-64%
Appleton—Appleton International Airport	270,633	281,552	348,909	386,737	190,282	-51%
Green Bay—Austin Straubel International	292,868	283,823	314,909	347,263	144,316	-58%
Mosinee—Central Wisconsin	119,222	116,404	124,632	141,123	56,782	-60%
La Crosse—La Crosse Municipal	94,047	92,101	99,651	97,069	44,853	-54%
Rhinelander—Rhinelander—Oneida County	20,414	23,014	24,477	27,203	13,652	-50%
Eau Claire—Chippewa Valley Regional	21,304	22,822	23,950	24,268	10,086	-58%
TOTAL	5,049,179	5,177,556	5,476,437	5,559,760	2,192,105	-61%

Source: FAA Air Carrier Activity Information System (ACAIS) for 2019 10/29/20; 2020 preliminary airport data

Enplaned Freight at Commercial Airports

LOCATION/COMMERCIAL AIRPORTS	CY2016	CY2017	CY2018	CY2019	CY2020	% CHANGE (19-20)
Milwaukee—General Mitchell International	80,336,000	79,214,423	79,010,065	75,874,000	74,298,000	-2%
Madison—Dane County Regional	15,090,373	13,267,346	14,297,349	13,061,697	12,829,158	-2%
Appleton—Appleton International Airport	9,685,052	10,156,234	10,978,383	10,805,803	8,203,186	-24%
Rhinelander—Rhinelander—Oneida County	1,693,783	1,501,408	1,562,840	1,420,686	1,419,884	0%
Mosinee—Central Wisconsin	979,526	847,160	771,232	619,262	638,756	3%
Green Bay—Austin Straubel International	181,034	206,259	155,695	174,403	165,176	-5%
MILLION POUNDS	108.0	105.2	106.8	102.0	97.6	-4%

Source: Airport preliminary data

Facts and Figures

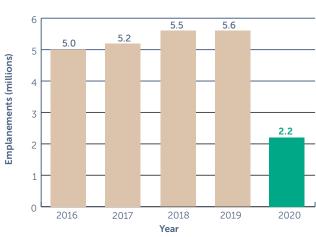


Richard I. Bong Airport

Operations at Towered Airports



Passenger Enplanements by Year (millions)



6

Enplaned Freight at Commercial Airports



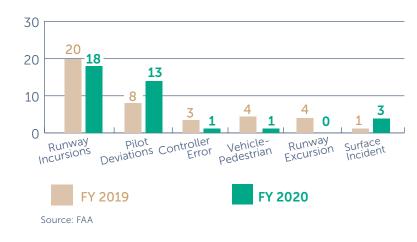


Facts and Figures

Airport Runway Safety

In an effort to improve airport runway safety in the state, the BOA has partnered with the FAA's Runway Safety Action Team to increase outreach and participation from all major airport interests including tenants, fixed base operators, airport operations and maintenance personnel. Participants are asked to help develop recommendations and solutions to enhance surface safety. Meetings have been held throughout the state.

Runway Incidents at Towered Airports



10 Ways to Help Prevent Runway Incursions

See the "Big Picture"
Monitor both ground
and tower communications

Transmit Clearly
Make your instructions
and read backs complete
and easy to understand.

Listen Carefully Listen to your clearance. Listen to what you read back. Do not let communications become

Copy Clearances
Clearances can cham
Keep a note pad and copy
your clearance. If needed
refer to your notes.

Situational Awareness Know your location. If unfamiliar with an airpor keep a current airport diagram available for Admit When Lost
If you get lost on an
airport ask ATC for help.
Better to damage your
pride than your airplane.

Sterile Cockpit Maintain a sterile cockpit until reaching cruising altitude. Explain to your passengers that talking should be kept to a minimum.

Understand Signs, Lights and Markings Keep current with airport signs, lights and markings. Know what they mean and what action to take.

Never Assume
Do not take clearances
for granted. Look both ways
before entering or crossing
taxiways and runways.

TO Follow Procedures Establish safe procedures for airport operations.



Wind turbine

Tall Structures and Airspace Studies

The bureau issues permits for the construction of tall structures under the provisions of Wisconsin State Statute 114.135, Airport Protection. In addition, the bureau also initiates studies for on-airport, non-rule-making action studies. The push for very tall, utility scale wind turbines has slowed somewhat, however, there is still interest in wind projects throughout the state.

In 2020 the bureau screened 351 proposed structures, processed applications, and issued 7 tall structure permits, including two renewable energy projects totaling a combined 48 wind turbines.

We also processed 1,199 on-airport non-rule making airspace studies that were filed in 2020.

Facts and Figures



Wittman Regional Airport, taxiway construction

Wisconsin Airport Pavement Health



Pavement condition ratings are a primary

of the long-term structural health of the state's airport system. Every year the bureau inspects one third of the pavements of Wisconsin's public-use airports using a pavement condition index (PCI). The index is used to evaluate the relative condition of a given section of pavement on a scale range from 0 (failed) to 100 (excellent). In 2020, 85 percent of primary airport pavements were rated fair or above for the 97 SASP airports.

8



Snow removal equipment facility

Funding

In 2020, more than \$73 million in federal, state and local funds supported 94 airport improvement projects (AIP). The funding is prioritized to maintain the safety and utility of Wisconsin's statewide system of airports.

Funding Breakout

	1 -	' '	<u> </u>	
Statewide Projects	\$0	\$492,000	\$0	\$492,000
General aviation	\$27,283,000	\$6,322,000	\$6,312,000	\$39,917,000
Primary commercial service	\$28,415,000	\$2,581,000	\$1,634,000	\$32,630,000
AIRPORT TYPE	FAA	STATE	SPONSOR	TOTAL

\$73,039,000

COVER

2020 Work Items Funded

TOTAL

TYPE OF WORK		NUMBER OF PROJECTS	AMOUNT FUNDED
Recon/Rehab Pavement	Total	11	\$43,182,000
Pavement Maintenance T	otal	10	\$1,502,000
Airport Rescue & Firefigh	ting Total	1	\$25,000
Airfield Lighting Total		4	\$1,702,000
Airfield Markings Total		1	\$67,000
Navigational Aids Total		1	\$50,000
Buildings Total		8	\$11,583,000
Equipment Total		8	\$1,349,000
Land Total		6	\$3,391,000
Fuel Total		10	\$2,144,000
Pro Design/Developmen	t Total	27	\$5,181,000
General Planning Total		5	\$2,371,000
Statewide Support (non-construction)		2	\$492,000

94

Number of Airport Projects in 2020

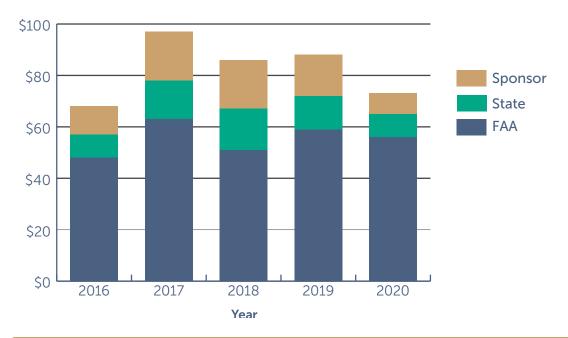
Sponsor only	3
Statewide	2

MAP

CONTENTS

Funding

Funding History for Airport Improvement Projects (millions)





Richland Airport New Terminal

Airport Facilities

Airports address passenger safety, multimodal access and facilities to house aircraft and maintenance equipment. The bureau has responded to these needs over the past year with both federal and state aid.

Major Projects 2020

Central Wisconsin Airport Runway 17/35 Rehabilitation

Kenosha Regional Airport Runway 7L/25R, Runway 15/33 Intersection and Taxiway A Rehab

General Mitchell International Airport Runway 7R/25L Rehabilitation

Outreach !!!

Unmanned Aircraft Systems (UAS)



Unmanned Aircraft Systems (UAS), commonly referred to as "drones," have entered the national airspace as a major user. The bureau's Director is a member of the FAA's Drone Advisory Committee which help the FAA prioritize its efforts to integrate drones in the national airspace. In addition, the bureau recently acquired a UAS for the purposes of conducting airport approach obstruction evaluations to more comprehensively and accurately identify penetrations to the approach surface and guide tree clearing activities. Information on the department's website is available that will help to inform and educate Wisconsin's aviation community. https://wisconsindot. gov/Pages/travel/air/pilot-info/uas.aspx.

The FAA is currently reporting 2,752 Part 107 pilots in Wisconsin. The bureau encourages all UAS pilots to be actively engaged with existing and emerging FAA regulatory and safety initiatives concerning the use of drones.

Airport Operations and Land Use Symposium

Since the Wisconsin Bureau of Aeronautics was unable to host the annual symposium in 2020, a series of free recorded webinars for airport managers, consultants, and other airport stakeholders were produced and shared instead. The webinars are available on the BOA website at: https://wisconsindot.gov/Pages/doing-bus/aeronautics/trng-evnts/opslu-sem.aspx. Topics included airport legislative and funding issues, Wisconsin accident statistics, the fundamentals of airport compliance, and the importance of airport planning.

Fly Wisconsin Airport Passport Program

wisconsindot.gov/FlyWI



Airport Passport Program The Fly Wisconsin Airport Passport program promotes safety and education by encouraging recreational flight to Wisconsin's public use airports. It

also supports general aviation airports, area businesses and tourism. It is a collaborative program of the Wisconsin Department of Transportation (WisDOT), Bureau of Aeronautics (BOA) and the Wisconsin Airport Management Association (WAMA).

Any licensed pilot, from any state, and their passenger(s) may participate. Pilots and their passengers may earn three different levels of recognition awards by flying into airports, attending annual FAA safety seminars and visiting Wisconsin's aviation attractions. Since the program started in 2017, over 1,700 participants have registered.



Bear on New Richmond Municipal Airport runway

Wildlife Studies

The bureau is currently conducting a baseline wildlife data collection study and synthesis across the state. This baseline work combined with concurrent personnel training will enable the bureau to directly conduct wildlife site visits and wildlife hazard assessments. Additionally, the bureau will be able to advise and assist airports on how to specifically mitigate their wildlife hazards. This approach will lead to more proactive rather than reactive response to the wildlife/aviation hazard interface.

10



Kenosha Regional Airport runway extension

Airport Safety and Pilot Education Events in 2020

Mechanics Seminar

The Mechanics Conference held webinars in 2020 with 222 attendees.

Pro-Tips Series Webinars

The bureau has partnered with the FAA Milwaukee and Minneapolis Flight Service District Offices, NAFI and others to hold monthly webinars featuring aviation professionals and subject matter experts willing to share knowledge and tips to help make aviation safer.



12



Appleton International Airport Aircraft Fire Fighting Training Facility

Airport Projects Recognized

Kenosha Regional Airport

The bureau recognized Michels Construction with the Outstanding Airport Construction Award for their work at the Kenosha Regional Airport. This \$19 million project reconstructed the 5,500-foot-long primary runway and constructed a 1,100-foot extension. Additionally, it also reconstructed the full-length parallel taxiway. The project was anticipated to be constructed over two seasons due to funding uncertainties. The final work was not awarded until after July 4. Michels Construction committed to complete this additional work, along with the original work in a single year, reducing the impact to the airport businesses as well as the airport tenants and users.

Appleton International Airport

Vinton Construction Company received Special Recognition for a \$7 million project to construct a new Aircraft Fire Fighting Training Facility. This training facility represents the latest state of the art aircraft fire training facility in the nation. The project was completed on time, on budget, with high quality.

Publications

wisconsindot.gov/av-pubs



The following is an example of publications available from the BOA. These publications and others may also be found on the department's website.

- Airport Development Handbook
- Airport Directory and Pilot's Guide
- Aviation Easements Brochure
- Aviation websites
- Fuel Services in Wisconsin
- Points of Interest near Wisconsin Airports
- State Airport System Plan 2030
- Wildlife Hazards Brochure
- Wisconsin Airport Maintenance Programs Brochure
- Wisconsin Aeronautical Chart



The Wisconsin Aeronautical Chart 2020-2021 now includes facts and figures, amenities and local attractions, as well as updated information sections that cover airport events, educations, publications, UAS and numerous safety topics.

WisDOT BOA Aeronautical Chart 2020-2021 https://wisconsindot.gov/Documents/doing-bus/aeronautics/resources/aerochart.pdf







wisconsindot.gov/av pubs