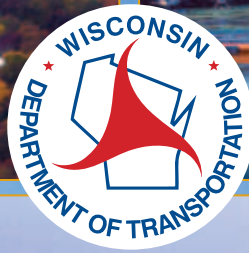


WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF AERONAUTICS



2009 Annual Report



**PROVIDING LEADERSHIP TO MAINTAIN
AND DEVELOP A SAFE AND EFFICIENT
AIR TRANSPORTATION SYSTEM**





DIRECTOR'S MESSAGE:

2009 was an industrious year for the Wisconsin Department of Transportation's, Bureau of Aeronautics. This report reviews the aviation activity in Wisconsin that occurred during the past year.

The Bureau's staff managed over \$124 million in funding and 119 airport projects in 2009. Engineering projects varied widely, from the construction of a new airport terminal to runway safety area improvements and obstruction removal. The Federal Aviation Administration (FAA) awarded grants for seven of the 119 Wisconsin airport projects with American Recovery and Reinvestment Act (ARRA) funding totaling \$23.6 million.

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 an important element of our mission. In addition to aviation planning and engineering services, the Bureau assists airport sponsors on environmental matters, land use planning, runway safety issues and federal grant assurances. The Bureau takes pride in working with the airport sponsors to ensure they have all the tools they need 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. The Bureau conducted 23 aviation education and outreach events last year that drew more than 1,800 participants from many sectors of the aviation industry.

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

David M. Greene
Director

FACTS AND FIGURES



Middleton Municipal Airport hangar area

LANDING FACILITIES IN WISCONSIN

Publicly-owned airports	98
Privately-owned, private use airports	34
Private use airports	415
Heliports (public and private)	148
Seaplane bases	28
Total	723

REGISTERED AIRCRAFT

Airplanes	5,249
Seaplanes	65
Sailplanes	55
Rotorcrafts	121
Balloons	73
Ultralights	33
Light sport	44

SERVICE PROVIDERS

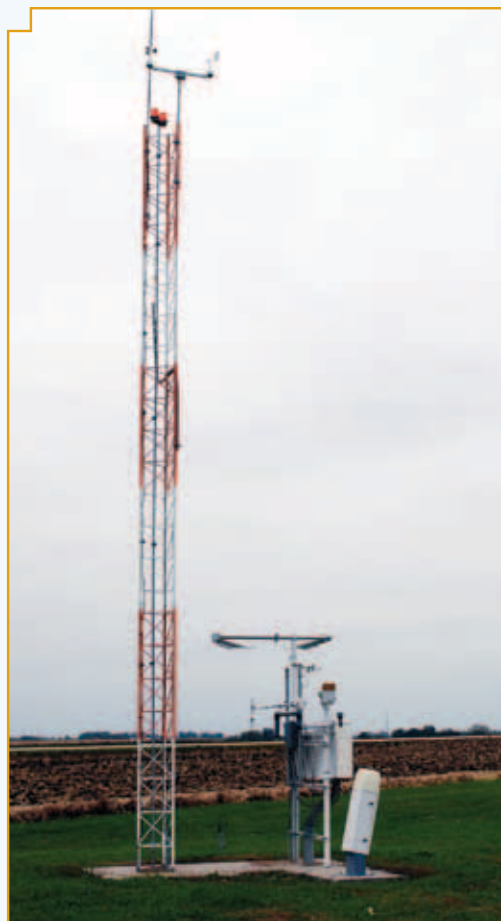
Scheduled air carrier airports	8
Commercial airlines serving the state	14
Cargo-only air carriers	3
Airports with business jet activity	49
Airports with >5,000-foot runways	39

RADIO NAVIGATIONAL AIDS

Visual navigational aids	491
Airports with instrument approaches	88
VOR, VOR/DME and VORTAC	32
Localizers	46
Precision landing systems (Glideslope antennas)	29
Non-directional radio beacons (NDB)	41
Ground communications outlets (GCO)	23

WEATHER GATHERING AND DISSEMINATION SYSTEMS

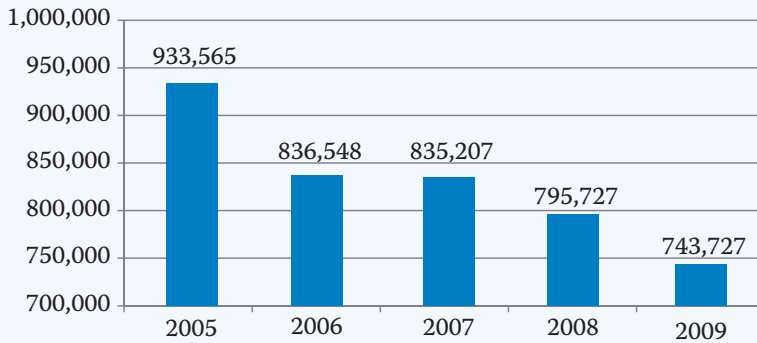
State owned automated weather observation system (AWOS)	37
Federally owned automated surface observation system (ASOS)	18
Federally owned automated weather sensor system (AWSS)	1



Platteville Municipal Airport AWOS unit

FACTS AND FIGURES

OPERATIONS AT TOWERED AIRPORTS

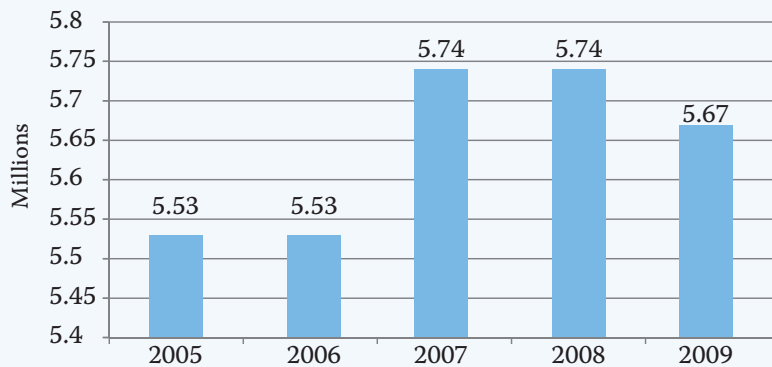


Wittman Regional Airport
Air traffic control tower
under construction

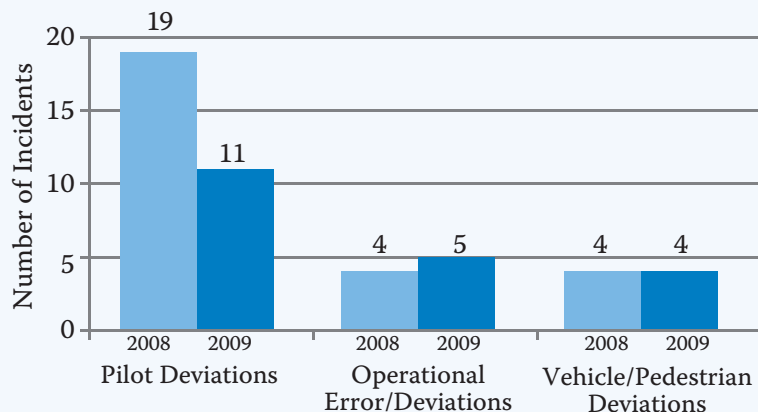
AIRPORT RUNWAY SAFETY

In an effort to improve airport runway safety in the state, the Bureau has addressed the issue from both a structural and human factors approach. The operations at our busiest airports were evaluated, and areas with either a higher incident rate or a higher incident potential were identified and addressed. For example, the “hot spots” identified at General Mitchell International Airport and La Crosse Municipal Airport have been ameliorated through both airport design/reconstruction (thus physically eliminating the hot spot) and through pilot and controller education. At Milwaukee, flyers with airport diagrams identifying the hot spots were circulated, and at both airports improved taxiway and runway signage was installed. In addition, pilot training has been offered at various locations throughout the state to increase overall pilot awareness on the runway.

PASSENGER ENPLANEMENTS BY YEAR



RUNWAY INCIDENTS AT TOWERED AIRPORTS



FACTS AND FIGURES



Fond du Lac Airport terminal

■ WISCONSIN AIRPORT PAVEMENT HEALTH

Every three years, the Bureau inspects 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 of 1 to 100. Pavements with a PCI rating of 100 are likely new pavements. The average statewide PCI for airport pavements in Wisconsin is 79.5. This means Wisconsin's airport pavements are in good condition, and are best serviced by using preventive maintenance.



PCI inspection



Wind turbines

■ TALL STRUCTURES AND AIRSPACE STUDIES

In calendar year 2009, the Bureau of Aeronautics/ Airspace and Tall Structures section reviewed, processed, or initiated 2,089 airspace studies. (1,711 obstruction evaluation studies, and 379 on-airport, non-rulemaking action studies. The Bureau also issued 114 permits under the provisions of *Wisconsin State Statute 114.135, Airport protection*.

The push for installation of very tall, utility scale wind turbines continued in 2009, with the main area of interest being on the Niagara Escarpment, from Hartford to Sturgeon Bay, and in the Driftless Area west of Madison and south of the Wisconsin River. There are proposals for several hundred utility scale wind turbines in various stages of planning—from conceptual to construction.

FUNDING

In 2009, over \$124 million in federal and state funds supported 119 airport improvement projects. The funding is used to maintain the quality of Wisconsin's statewide system of airports.



Burlington Municipal Airport

NUMBER OF AIRPORT PROJECTS IN 2009

Federal aid AIP (includes state match)	77
Federal aid ARRA (100% federal)	7
State aid	35
Total projects	119

2009 WORK ITEMS FUNDED

TYPE OF WORK	NUMBER OF PROJECTS	AMOUNT FUNDED
Rehabilitation of existing pavement	37	\$37,991,050
New pavement	13	\$19,043,894
Runway safety area improvements and obstruction removal	5	\$33,216,998
Runway lighting and pavement marking	10	\$1,511,386
Navigational aids	11	\$928,002
Buildings	14	\$21,819,109
Equipment	9	\$1,517,874
Land	8	\$1,534,000
Fuel facilities	5	\$857,299
Fence	4	\$2,645,496
Security	3	\$3,766,528
TOTAL	119	\$124,831,637

**all costs: construction, planning, engineering and administration.*

**Includes only projects which include federal (AIP and ARRA) and state funds.*

**Includes \$23.6 million 100% federal American Recovery and Reinvestment Act (ARRA) funds.*



Marshfield Municipal Airport

FUNDING BREAKOUT (IN MILLIONS)

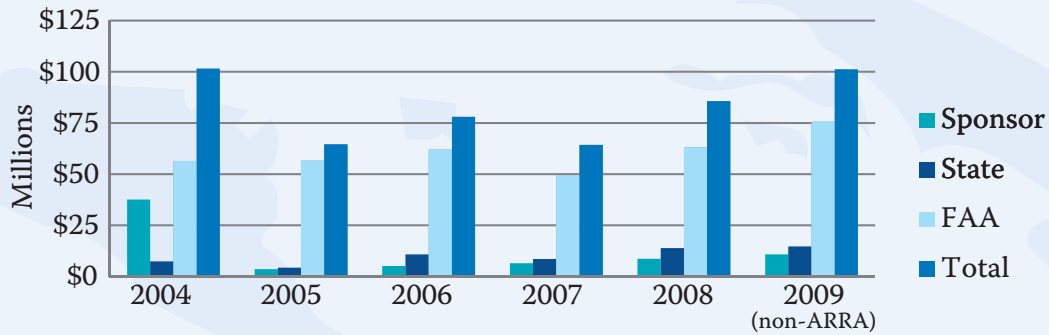
AIRPORT TYPE	FAA	STATE	SPONSOR	TOTAL
Primary commercial service	\$69,901,691	\$10,716,788	\$8,496,255	\$89,114,734
General aviation	\$29,382,763	\$4,014,538	\$2,319,601	\$35,716,902
Total	\$99,284,454	\$14,731,326	\$10,815,856	\$124,831,637

**Includes only Federal (AIP and ARRA) and State fund projects.*

**Includes \$23.6 million 100% federal American Recovery and Reinvestment Act (ARRA) funds.*

FUNDING

FUNDING HISTORY FOR AIRPORT IMPROVEMENT PROJECTS (IN MILLIONS)



Dane County Regional Airport



AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) FUNDS

In 2009 President Obama signed the American Recovery and Reinvestment Act of 2009 (ARRA) into law. The Federal Aviation Administration (FAA) received \$1.1 billion for airport-related purposes. In addition to AIP funds, WisDOT's Bureau of Aeronautics (BOA) received approximately \$23.6 million in ARRA funding from the FAA for projects at the following seven airports.

- » **Austin Straubel International (Green Bay):** \$2.3 million to replace culverts and concrete outboard panels on the primary runway.
- » **Burlington Municipal (Burlington):** \$605,000 to fund a portion of the project to repave the primary runway, parallel taxiway, and the general aviation apron.
- » **Dane County Regional (Madison):** \$3.9 million to construct a taxiway extension.
- » **Dodge County (Juneau):** \$94,775 to fund a portion of the project to install crosswind runway lighting.
- » **General Mitchell International (Milwaukee):** A runway safety area project at General Mitchell has several phases. This phase of the project is the construction of the College Avenue tunnel. The FAA granted \$9.5 million to fund a portion of this \$18.15 million project phase.
- » **Rhineland-Oneida County (Rhineland):** \$2.3 million to fund a portion of the project replacing the concrete on three taxiways.
- » **Wittman Regional (Oshkosh):** \$2.4 million to fund the replacement of a portion of the concrete on the primary runway.

OUTREACH

■ AIRPORT OPERATIONS AND LAND USE SYMPOSIUM

This popular two-day symposium is an excellent opportunity for airport owners, planners, and aviation consultants to become familiar with a variety of airport operations topics as well as compatible land uses, environmental topics, implementing land use plans and regulatory land use tools. Previous symposium topics included addressing land use issues on and near airports; outlining FAA policies, regulations, and grant assurances; and developing land use ordinances.



Art contest winner for ages 10 to 11

■ AVIATION ART CONTEST

The Bureau participates annually in the International Aviation Art Contest. The art contest encourages youth to become more familiar with and participate in aviation. The first place Wisconsin winners in each age group have a choice of a one-hour flight for themselves and two guests or a \$100 gift certificate for art supplies. The top three pictures in each age category are entered in the National Aviation Art Contest.



LaCrosse Municipal Airport

■ AIRPORT SAFETY AND PILOT EDUCATION

The Bureau conducted 41 airport safety inspections at public-use airports in the state. Continuing education programs are held annually for pilots, flight instructors and aircraft mechanics. Also, the Bureau continues to administer a statewide aviation weather dissemination system.

■ AVIATION CAREERS EDUCATION (ACE) PROGRAM

The Aviation Careers Education (ACE) program provides paid internship opportunities to socially and economically disadvantaged high school students from Milwaukee. The interns become Limited Term Employees with WisDOT for seven weeks during the summer. The state provides wages and worker's compensation for the interns. A variety of businesses located at General Mitchell International Airport serve as a host site for the DOT interns. Thirty-five Milwaukee high school students participated in the 2009 program, working as interns at General Mitchell International Airport.

OUTREACH



Southern Wisconsin Regional Airport

■ AIRPORT RECOGNIZED

The Bureau recognized the construction of a parallel taxiway at **Southern Wisconsin Regional Airport** (Janesville) for outstanding airport construction project for 2009. This \$1.8 million project involved constructing a new 2,800-foot parallel taxiway to provide a more direct taxi route to the cargo apron. Zignego Company of Waukesha, FAA, the Bureau and airport management worked together to provide a very high quality transportation project.

BOA AVIATION RELATED EVENTS

EVENT	NO.	ATTENDEES
Airport engineers workshop	1	65
Airport operations and land use seminar	1	98
Flight instructor refresher course	2	93
Pilot education programs	16	1,110
Airport sponsor workshop	1	48
Aviation mechanic seminar	1	404
Ace program	1	35

■ BOA RECOGNIZES OTHERS

Spirit of 2009 Award: Each year the Bureau presents the Spirit Award to an employee outside the Bureau of Aeronautics for their contribution to the mission of supporting the development of Wisconsin's air infrastructure. The 2009 winner was **Michelle Gerrits** of the Environmental Services Section.

■ BOA STAFF RECOGNITION

2009 Star Performer Award: BOA presents this award annually to Bureau employees who have exceeded expected performance, maintained a positive attitude, and performed all job duties independently and exceptionally. In 2009, award recipients were **Mary Strait**, Airport Program Engineer, and **Andrew Trimble**, Airport Development Engineer.

■ PUBLICATIONS

The following is a list of publications available from the Bureau. These publications and others may also be found on the department's Web site at www.dot.wisconsin.gov/library/publications/topic/aviation-publications.htm.

- » Bureau of Aeronautics Annual Report
- » Fuel Services in Wisconsin
- » Airport Directory
- » Aviation Web Sites
- » Points of Interest near Wisconsin Airports
- » Wisconsin Aeronautical Chart
- » Aviation Easement Brochure
- » Airport Development Handbook



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