

Airports and economic development

The local general aviation airport is fast becoming the principal access route from a community to the nation and world.

As an important part of our statewide transportation network, local airports such as Dodge County Airport in Juneau, play a critical role in fostering business growth and economic development.

Convenient access to air transportation allows businesses to quickly move goods and key personnel from one site to another, saving valuable time and increasing productivity.

The local airport can also provide facilities for emergency medical flights, law enforcement, agricultural spraying, pilot training, and many other important community services.

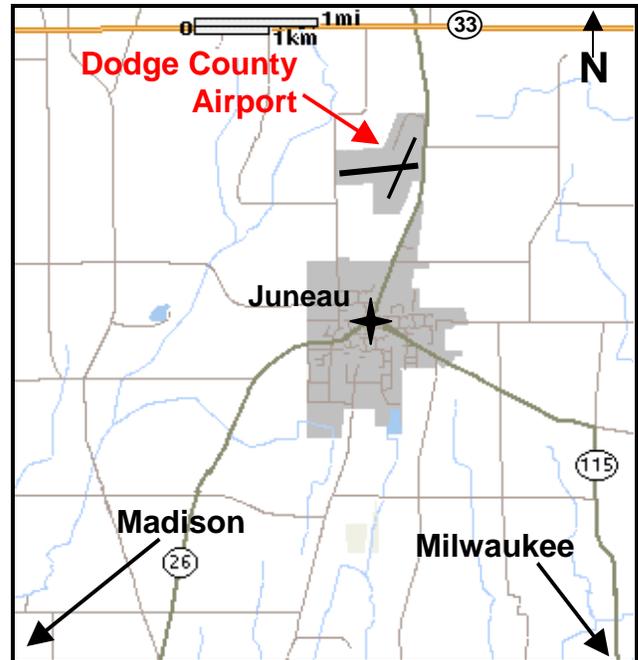
Communities that are readily accessible by air transportation are at a competitive advantage and may realize economic and quality of life benefits that can affect every citizen.



Dodge County Airport

Airport location

Dodge County Airport is located in Dodge County (southeastern Wisconsin). Easily accessible from US 151, Dodge County Airport is 41 miles northeast of Madison and 44 miles northwest of Milwaukee.



The airport provides a safe and convenient environment for travel, business aviation, and related business activities.

Regional profile

Dodge County has a diversified economic base and workforce.

The area's prominent industry sectors are fabricated metal product manufacturing, educational services, and machinery manufacturing.

City of Juneau/Dodge County Profile

Area populations

City of Juneau – 2,708
Dodge County – 89,962

Employment

Dodge County employment – 32,477
County per capita income – \$32,271

Major employers in area

- Department of Corrections
- Quad/Graphics Inc.
- Beaver Dam Community Hospitals Inc.
- County of Dodge
- Walmart
- Deere and Co.
- Michels Corporation
- Mayville Engineering Inc.
- Watertown Regional Medical Center
- Grande Cheese Co.

Sources: U.S. Census Bureau, U.S. Bureau of Economic Analysis, WI Departments of Administration and Workforce Development.

Airport services and activity

Owned and operated by Dodge County, the airport is classified as a Medium General Aviation Airport in the Wisconsin State Airport System Plan. Airports in this classification support most single and multi-engine general aviation aircraft, including those aircraft commonly used by businesses. These airports support regional and in-state air transportation needs.

In 2011, the airport recorded 28,000 aircraft operations and was home to 69 based aircraft, including 64 single engine, four multi-engine aircraft, and one jet. The airport has one Fixed Base Operator (FBO), Wisconsin Aviation. There are 40 hangars located at the airport.

Airport facilities

Dodge County Airport has two paved runways.



The primary runway (08/26) is 5,060 feet long by 100 feet wide. Lighting aids on this runway include a Medium Intensity Approach Light System with sequenced flashing lights (MALSF), Precision Approach Path Indicators (PAPI), and Medium Intensity Runway Lights (MIRL).

The secondary runway (02/20) is 4,029 feet long and 75 feet wide. Lighting aids on this runway include MIRLs, PAPIs, and Runway End Identifier Lights (REIL).

Instrument approaches to the airport include a Localizer to Runway 26, Non Directional Beacon (NDB) to Runways 02 and 20, and Global Positioning System approaches to all runways.

The economic impact of Dodge County Airport

This report documents a recently completed study by WisDOT's Bureau of Aeronautics on the contribution of Dodge County Airport to the local and state economy.

The economic impact of Dodge County Airport is the *economic output (sales)*, *employment*, and *wage income* that can be attributed directly and indirectly to the airport.

Economic impacts measure the importance of an airport as a business, in terms of the employment that it supports and the goods and services that it consumes.

The results of the study indicate Dodge County Airport provided \$4,246,470 in sales, supported 62 jobs, and contributed \$1,078,848 in wage income to the local and state economy in 2011.

The methodology used to estimate the contribution of the airport to the local and state economy is the WisDOT Airport Benefit-Cost (ABC) System.

Airport Benefit Cost (ABC) System

WisDOT's ABC System is a Microsoft Access database application for evaluating the economic impact of airports and airport improvement projects.

WisDOT's ABC System was developed based on guidelines established by the FAA in the document "*Estimating the Regional Economic Significance of Airports*," U.S. DOT, September 1992.

WisDOT's ABC System used data from the following three primary sources to estimate the economic impact of the airport to the local and state economy:

- Airport activity and business survey data on jobs, income and sales at the airport
- Data from the Wisconsin Department of Workforce Development Dodge County Profile
- Regional economic multipliers obtained from the industry transaction tables in the Impact Analysis for Planning Model (IMPLAN) computer model

IMPLAN is a computer model produced for WisDOT by the Minnesota IMPLAN Group. The model estimates purchases and sales between various sectors of the Wisconsin economy.

The model produces statewide multipliers as well as multipliers for specific counties and groups of counties. IMPLAN multipliers for two sectors in the Dodge County economy were used in the analysis.

The regional economic multipliers used in this study for the *Air Transportation Sector* are 1.24 (sales), 1.5 (employment), and 1.60 (wages.) Multipliers used for the *Retail/Hotel/Restaurant Sector* are 1.40 (sales), 1.25 (employment), and 1.44 (wages.)

The economic contribution of Dodge County Airport is comprised of three types of impacts—*direct impact of the airport, direct impact of airport users, and the multiplier impact*. Each of these effects is expressed in terms of their effect on economic output (sales), employment (jobs), and wage income.

Direct impacts

The direct impact of Dodge County Airport on the local economy reflects the jobs, payroll, and sales directly related to airport operations. This includes the management and operation of the airport, as well as businesses providing aircraft maintenance, fueling, storage, and leasing activities.

The direct effect of the airport on the local economy in 2011 totaled 10 employees, a payroll of \$145,640 and \$1,022,300 in economic output.

Indirect impact

Visitor spending, or the direct impact of airport users, is the amount of money flowing into the local economy from air passengers who reside

Economic Impact

2011

Dodge County Airport (UNU)
Juneau, WI

outside the county. These visitors spend money on lodging, meals, ground transportation, and retail purchases within the county.

The \$1,480,000 of visitor spending in 2011 supported 28 additional jobs in Dodge County with a payroll of \$454,440.

Induced impacts

The multiplier, or induced effect, represents the downstream effect of airport operation and visitor spending throughout the local and state economy.

This impact includes the activity of suppliers to the businesses at the airport (including electricity, office supplies, aircraft parts, and fuel for resale) and suppliers to the businesses serving visitors. It also includes the activity generated by the airport workers re-spending their income (clothes, groceries, entertainment, and other necessities).

In 2011, the multiplier impact of the airport supported 12 additional jobs, provided \$287,338 in wages and generated \$841,416 in economic output.

Employment (FTE Jobs)

Direct	10
Indirect (visitor spending)	28
Induced (multiplier effect)	12
Total employment impact	50 jobs

Wage Income/Payroll

Direct	\$145,640
Indirect (visitor spending)	\$454,440
Induced (multiplier effect)	\$287,338
Total payroll impact	\$887,418

Economic Output/Sales

Direct	\$1,022,300
Indirect (visitor spending)	\$1,480,000
Induced (multiplier effect)	\$841,416
Total economic output	\$3,343,716



Other benefits

The study also measured public revenue generated at the local and state level from airport and aviation-related fees.

In 2011, Dodge County Airport generated \$49,034 in revenue from aircraft storage. Concession rents generated \$4,760. Other local taxes, fuel flowage fees, and leases generated \$59,645.

The airport also generated \$3,632 in state revenue from general aviation fuel taxes and aircraft registration fees of \$10,840 for a total of \$127,911 in direct local and state public revenue.

Public Revenue – Direct Impact

Dodge County	State	Total
\$113,439	\$14,472	\$127,911

Local economic impact

The results of the study indicate Dodge County Airport provided \$3,343,716 in economic output, supported 50 jobs and contributed \$887,418 in wage income to the local economy in Dodge County.

Economic Impact

2011

Dodge County Airport (UNU)
Juneau, WI

Contribution of Dodge County Airport to the Local Economy

FTE jobs	Wage income/ payroll	Economic output/sales
50	\$887,418	\$3,343,716

Contribution of Dodge County Airport to the Local and State Economy

FTE jobs	Wage income/ payroll	Economic output/sales
62	\$1,078,848	\$4,246,470

Local and state economic impact

The activity at Dodge County Airport in 2011 also generated an additional \$902,754 in sales, 12 jobs, and \$191,430 in payroll to the state economy.

When combined with the local impact, the total contribution of Dodge County Airport to the local and state economy, in 2011, was \$4,246,470 in sales, 62 jobs, and \$1,078,848 in wage income.



Note: The results of this report are produced from a basic model and do not completely address all the economic nuances facing every airport.



<http://www.dot.state.wi.us/projects/air.htm>