



2025 North Dakota
State Aviation System Plan



2025 North Dakota
Aviation Economic Impact Study

Maddock Municipal Airport (6D3)

Associated City: Maddock



6D3's Airport Economic Impacts

The impacts below present the sum of direct and multiplier impacts of all activity associated with 6D3. The table below offers a breakdown of the total impacts by direct, multiplier, total, and source of impact.



Jobs
6



Payroll
\$331,000



Value Added
\$418,000



Output
\$637,000

Source of Impact	Jobs		
	Direct	Multiplier	Total
Airport Management	0	<1	<1
Airport Tenants	4	1	5
Capital Expenditures	1	<1	1
GA Visitor Spending	<1	<1	<1
CS Visitor Spending	N/A	N/A	N/A
Total Jobs Impacts	5	1	6

Source of Impact	Payroll		
	Direct	Multiplier	Total
Airport Management	\$0	\$5,000	\$5,000
Airport Tenants	\$209,000	\$57,000	\$266,000
Capital Expenditures	\$36,000	\$20,000	\$56,000
GA Visitor Spending	\$2,000	\$1,000	\$4,000
CS Visitor Spending	N/A	N/A	N/A
Total Payroll Impacts	\$248,000	\$83,000	\$331,000

Source of Impact	Value Added		
	Direct	Multiplier	Total
Airport Management	\$15,000	\$8,000	\$23,000
Airport Tenants	\$213,000	\$92,000	\$305,000
Capital Expenditures	\$49,000	\$34,000	\$83,000
GA Visitor Spending	\$4,000	\$2,000	\$6,000
CS Visitor Spending	N/A	N/A	N/A
Total Value Added Impacts	\$280,000	\$137,000	\$418,000

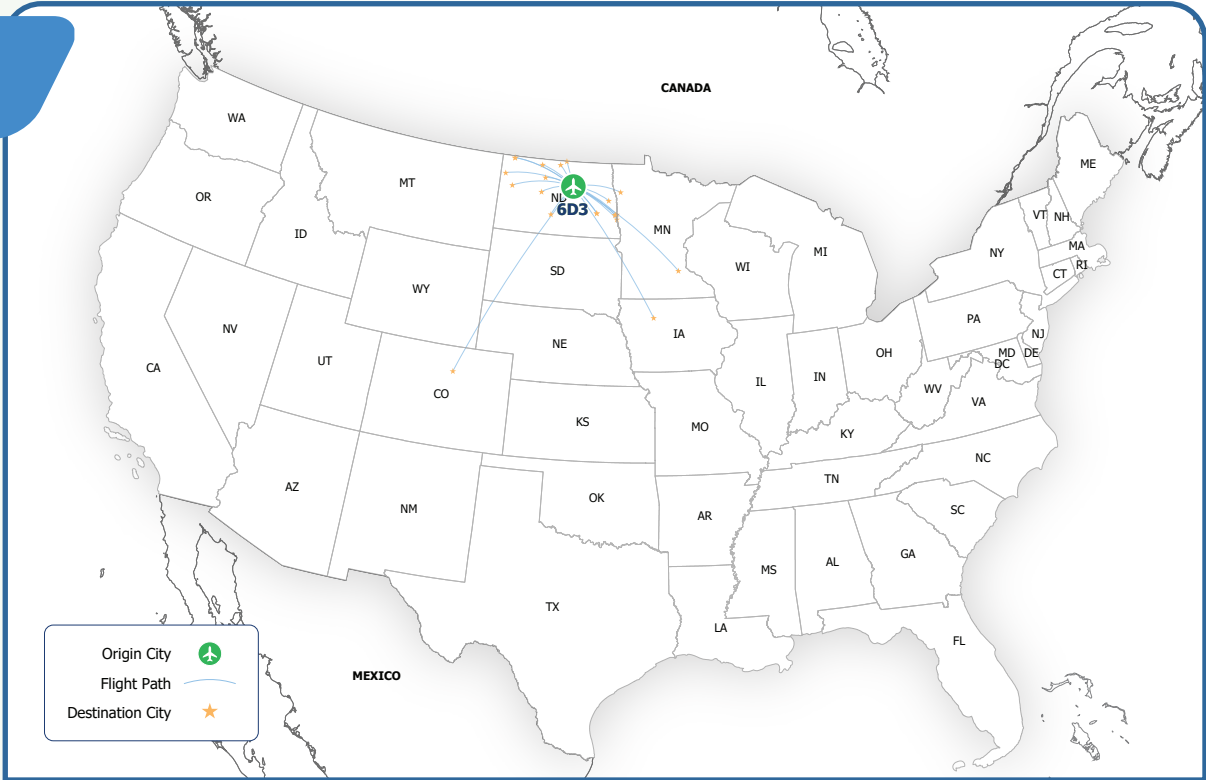
Source of Impact	Output		
	Direct	Multiplier	Total
Airport Management	\$20,000	\$15,000	\$35,000
Airport Tenants	\$249,000	\$167,000	\$415,000
Capital Expenditures	\$113,000	\$63,000	\$175,000
GA Visitor Spending	\$7,000	\$4,000	\$11,000
CS Visitor Spending	N/A	N/A	N/A
Total Output Impacts	\$388,000	\$249,000	\$637,000

Sources: 2025 NDAEIS Airport Manager Survey; IMPLAN, 2025; Kimley-Horn, 2025. Notes: Dollar values rounded to the nearest 1,000. Totals may not sum due to rounding.

Airport Flight Map

This Instrument Flight Rules (IFR) map shows annual flight activity data and helps to demonstrate the important role that 6D3 plays in providing time-saving connections for local and visiting businesses and residents. IFR Flights Completed as Filed between January 1, 2024, and December 31, 2024.

Source: FlightAware



Airport Facts



The airport and the activities it supports generate approximately \$75,000 annually in federal, state, and local tax revenues.



An estimated 80 out-of-state visitors traveled through 6D3 in 2024 via general aviation aircraft.



Visitors using 6D3 spent approximately \$1,000 on lodging, \$2,000 on food and beverage, \$1,000 on local transportation, \$1,000 on retail, and \$1,000 on entertainment, supporting local businesses throughout the region.



6D3 supports weekly recreational flying, monthly flight instruction, and occasional corporate activity.



Over the past four years, more than \$452,000 has been invested in capital improvements at 6D3, averaging approximately \$113,000 annually from state, local, and private funding sources.

Study Methodology

Comprehensive data collection was essential to producing accurate economic impact estimates for calendar year 2024. Primary data sources, including airport staff, airport business tenants, and visitors, were used to estimate direct economic impacts. These data were gathered through onsite visits and a combination of in-person, telephone, and online surveys. Where needed, additional industry sources were consulted to supplement the primary data. A nationally recognized economic modeling platform, IMPLAN, was used to calculate multiplier effects. Economic impacts were estimated for airport management, airport tenants, capital investment activity, GA visitor spending, and commercial service visitor spending.

Economic Impact Levels

The economic impacts for North Dakota's airports are presented at three distinct levels (direct, multiplier, and total) to describe where in the economic cycle the impact is generated.



Direct Impacts



Airport Administration



Capital Investment



GA and Commercial Services Visitor Spending

Multiplier Impacts

Indirect

Portions of direct output used to purchase goods and services from businesses inside the study region

Induced

Income earned by workers from direct and supplier sales transactions that are then spent inside the study region

Total Impacts

There are four measures used to express the economic impact of North Dakota's airports: jobs, payroll, value added, and output.



Jobs

Total number of people employed. This includes both full-time and part-time because of aviation.



Payroll

Total employment compensation, including wages and benefits, of those employed



Value Added

The value of final goods and services produced locally because of economic activity, excluding the value of goods and services used to produce them



Output

Total expenditures associated with airport administration, capital projects, tenant sales of goods and services, as well as visitor spending in North Dakota's hospitality-related sectors

About Maddock Municipal Airport

Located in central North Dakota, Maddock Municipal Airport (6D3) plays a vital role in supporting the region’s agricultural economy, healthcare access, and community service. Area ranches such as Generation 1 Ranch and J-D Buffalo Ranch rely on the airport for aerial pasture treatment and herd monitoring. The airport also improves efficiency for suppliers and customers, allowing direct access to Maddock’s agricultural operations. Two aerial applicators, Sabbe Brothers Flying Service and Slater Spray Service, are based at the airport, providing essential crop protection services that help farmers manage large acreages efficiently, especially when ground application is impractical. These operations directly contribute to the productivity and sustainability of local agriculture. The airport also supports critical healthcare needs. Heart of America Medical Center uses the facility for patient transfers, ensuring timely access to advanced care when every minute counts. Additionally, Pilots for Christ, a faith-based nonprofit based at the airport, offers free medical flights and disaster relief services across the region. Pilots for Christ also hosts an annual Fly-In featuring a golf ball drop fundraiser that draws crowds and promotes aviation support in the community. Whether enabling agricultural efficiency, life-saving medical transport, or charitable outreach, Maddock Municipal Airport is a small facility with a big impact serving the needs of rural North Dakota with reliability, compassion, and purpose.



Airport Activities



Recreational Flying



Flight Instruction



Agricultural Spraying



Law Enforcement



Military Training

Runways

The most critical infrastructure of an airport is the runway system. Runway characteristics determine the types of activity the airport can support.

Type	Orientation	Dimensions	Surface	Approach
Primary Runway	12/30	3,000 ft x 50 ft	Concrete	VIS / VIS
Secondary Runway	N/A	N/A	N/A	N/A
Tertiary Runway	N/A	N/A	N/A	N/A
Additional Runway	N/A	N/A	N/A	N/A

Aviation Activity Demand Forecasts

Aviation activity demand forecasts are included in the NDSASP to understand how aviation demand is expected to change over time. These forecasts help inform future infrastructure needs and long-term system planning decisions.

Activity Type	Base Year (2024)	Future Year (2044)	2024-2044 CAGR
Commercial Service Enplanements	N/A	N/A	N/A
Commercial Service Operations	N/A	N/A	N/A
General Aviation Operations	6,510	6,510	0.00%
Based Aircraft	11	14	1.21%

Note: CAGR = Compound Annual Growth Rate