



2025 North Dakota
State Aviation System Plan



2025 North Dakota
Aviation Economic Impact Study

Northwood Municipal - Vince Field (4V4)

Associated City: Northwood



4V4's Airport Economic Impacts

The impacts below present the sum of direct and multiplier impacts of all activity associated with 4V4. The table below offers a breakdown of the total impacts by direct, multiplier, total, and source of impact.

Jobs

13

Payroll

\$656,000

Value Added

\$938,000

Output

\$1.56 M

Source of Impact	Jobs		
	Direct	Multiplier	Total
Airport Management	1	<1	1
Airport Tenants	4	1	5
Capital Expenditures	2	1	3
GA Visitor Spending	3	1	4
CS Visitor Spending	N/A	N/A	N/A
Total Jobs Impacts	10	3	13

Source of Impact	Payroll		
	Direct	Multiplier	Total
Airport Management	<\$1,000	\$15,000	\$15,000
Airport Tenants	\$254,000	\$62,000	\$316,000
Capital Expenditures	\$131,000	\$65,000	\$196,000
GA Visitor Spending	\$80,000	\$48,000	\$129,000
CS Visitor Spending	N/A	N/A	N/A
Total Payroll Impacts	\$466,000	\$190,000	\$656,000

Source of Impact	Value Added		
	Direct	Multiplier	Total
Airport Management	\$41,000	\$23,000	\$64,000
Airport Tenants	\$255,000	\$102,000	\$356,000
Capital Expenditures	\$194,000	\$112,000	\$307,000
GA Visitor Spending	\$133,000	\$78,000	\$211,000
CS Visitor Spending	N/A	N/A	N/A
Total Value Added Impacts	\$623,000	\$315,000	\$938,000

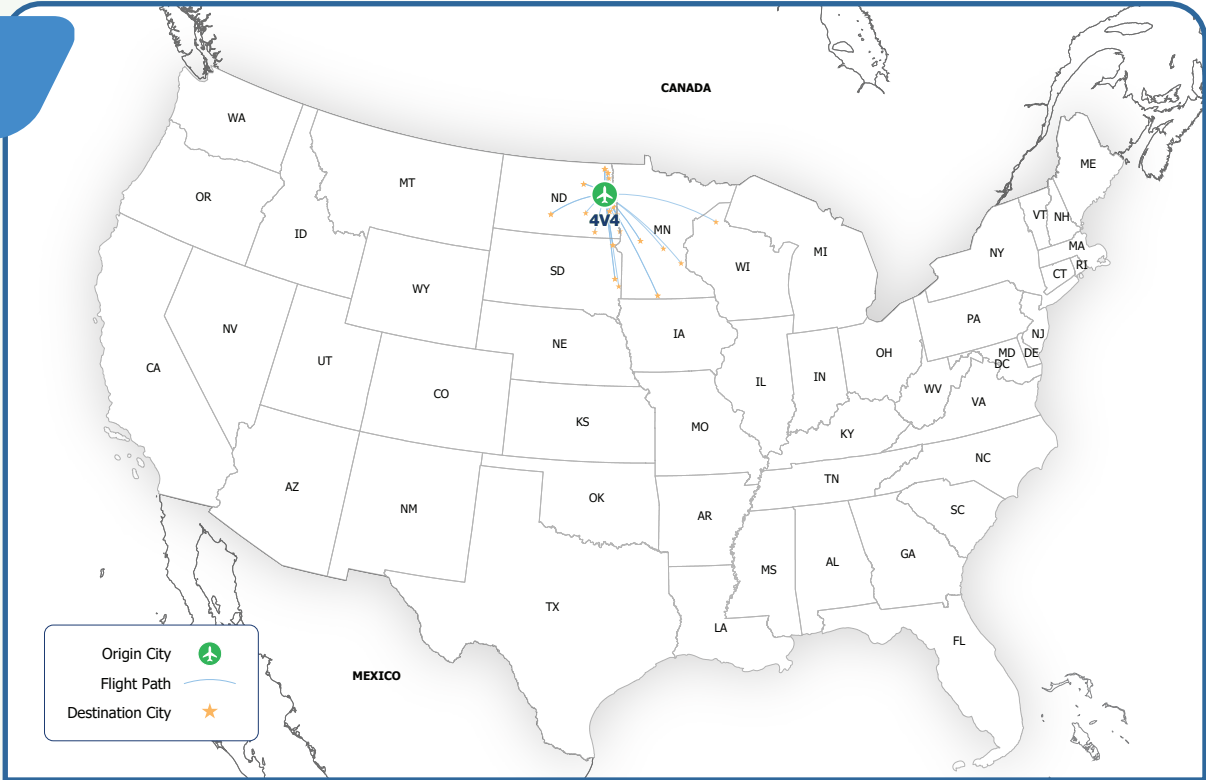
Source of Impact	Output		
	Direct	Multiplier	Total
Airport Management	\$55,000	\$41,000	\$96,000
Airport Tenants	\$298,000	\$180,000	\$477,000
Capital Expenditures	\$372,000	\$206,000	\$578,000
GA Visitor Spending	\$254,000	\$151,000	\$405,000
CS Visitor Spending	N/A	N/A	N/A
Total Output Impacts	\$979,000	\$578,000	\$1.56 M

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 4V4 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 more than \$184,000 annually in federal, state, and local tax revenues.

An estimated 2,652 out-of-state visitors traveled through 4V4 in 2024 via general aviation aircraft.

Visitors using 4V4 spent approximately \$43,000 on lodging, \$74,000 on food and beverage, \$46,000 on local transportation, \$51,000 on retail, and \$41,000 on entertainment, supporting local businesses throughout the region.



4V4 offers 100LL services to based and transient aircraft, allowing the airport to support a variety of critical operations, such as recreational flying, law enforcement, and military training.

Over the past four years, more than \$1.5 million has been invested in capital improvements at 4V4, averaging approximately \$372,000 annually from federal, 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.



Associated City: Northwood
County: Grand Forks
NDSASP Classification: Local
FAA ID: 4V4

About Northwood Municipal - Vince Field

Northwood Municipal - Vince Field (4V4) is an impactful aviation facility serving the Grand Forks County region. Located just half a mile southwest of Northwood, the airport features an asphalt runway, precision approach lighting, and full-service capabilities including 100LL fuel and major airframe and powerplant repair. Though modest in size, the airport plays a vital role in supporting agriculture, education, and local aviation services. One of its standout operations is a soil sampling company whose presence at the airport directly benefits area farmers by enhancing crop management and soil health. The airport also actively engages with local schools during career days, promoting aviation careers and STEM education to inspire the next generation of pilots, engineers, and technicians. The airport operates a full-service fixed-base operator (FBO) and maintenance shop, providing flight instruction and mechanical services. This long-standing commitment to the airport reflects the community's dedication to aviation access and excellence. From ultralights to University of North Dakota (UND) flight training aircraft, Vince Field sees a diverse mix of traffic. The airport also hosts an annual Fly-In organized by the Northwood Aviators Club and provides training events for fire and rescue teams, reinforcing its role as both a community gathering point and a resource for public safety. It's not just an airport; it's a community asset, a classroom, and a launchpad for rural innovation.



Airport Activities



Recreational Flying



Agricultural
Spraying



Military Training



Flight Instruction



Corporate Activity

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	08/26	3,160 ft x 60 ft	Asphalt	VIS / RNAV (GPS)
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	11,100	12,610	0.64%
Based Aircraft	19	22	0.74%

Note: CAGR = Compound Annual Growth Rate



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