



2025 North Dakota
State Aviation System Plan



2025 North Dakota
Aviation Economic Impact Study

Ellendale Municipal Airport (4E7)

Associated City: Ellendale



4E7's Airport Economic Impacts

The impacts below present the sum of direct and multiplier impacts of all activity associated with 4E7. The table below offers a breakdown of the total impacts by direct, multiplier, total, and source of impact.

Jobs

5

Payroll

\$186,000

Value Added

\$289,000

Output

\$542,000

Source of Impact	Jobs		
	Direct	Multiplier	Total
Airport Management	2	<1	2
Airport Tenants	0	0	0
Capital Expenditures	1	1	2
GA Visitor Spending	1	<1	1
CS Visitor Spending	N/A	N/A	N/A
Total Jobs Impacts	4	1	5

Source of Impact	Payroll		
	Direct	Multiplier	Total
Airport Management	\$18,000	\$11,000	\$29,000
Airport Tenants	\$0	\$0	\$0
Capital Expenditures	\$73,000	\$37,000	\$110,000
GA Visitor Spending	\$30,000	\$18,000	\$47,000
CS Visitor Spending	N/A	N/A	N/A
Total Payroll Impacts	\$121,000	\$65,000	\$186,000

Source of Impact	Value Added		
	Direct	Multiplier	Total
Airport Management	\$32,000	\$17,000	\$49,000
Airport Tenants	\$0	\$0	\$0
Capital Expenditures	\$102,000	\$63,000	\$165,000
GA Visitor Spending	\$47,000	\$28,000	\$76,000
CS Visitor Spending	N/A	N/A	N/A
Total Value Added Impacts	\$181,000	\$108,000	\$289,000

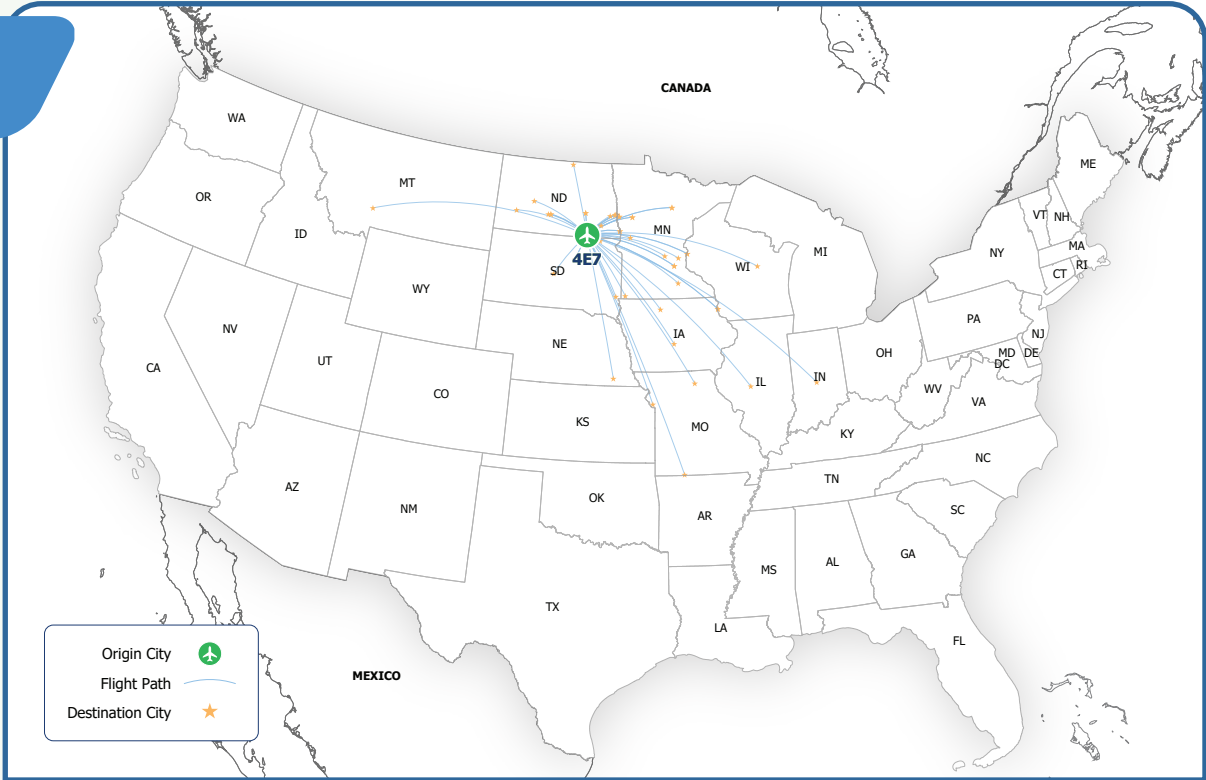
Source of Impact	Output		
	Direct	Multiplier	Total
Airport Management	\$40,000	\$30,000	\$70,000
Airport Tenants	\$0	\$0	\$0
Capital Expenditures	\$209,000	\$116,000	\$325,000
GA Visitor Spending	\$93,000	\$55,000	\$147,000
CS Visitor Spending	N/A	N/A	N/A
Total Output Impacts	\$341,000	\$201,000	\$542,000

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 4E7 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 \$56,000 annually in federal, state, and local tax revenues.

An estimated 1,030 out-of-state visitors traveled through 4E7 in 2024 via general aviation aircraft.

Visitors using 4E7 spent approximately \$16,000 on lodging, \$27,000 on food and beverage, \$17,000 on local transportation, \$19,000 on retail, and \$15,000 on entertainment, supporting local businesses throughout the region.

4E7 offers 100LL services to based and transient aircraft, allowing the airport to support a variety of critical operations, such as recreational flying, flight instruction, and physician transport.

Over the past four years, more than \$835,000 has been invested in capital improvements at 4E7, averaging approximately \$209,000 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.

Airport Administration

Airport Tenants

Capital Investment

GA and Commercial Services Visitor Spending

Indirect

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

Multiplier Impacts

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 Ellendale Municipal Airport

Located in southeastern North Dakota near the South Dakota border, Ellendale Municipal Airport (4E7) is a vital asset supporting the region’s economy, healthcare, agriculture, and education. Local businesses across sectors such as agriculture, healthcare, finance, construction, technology, and higher education benefit from the airport’s ability to reduce travel time and improve operational efficiency. In recent years, the airport has experienced increased corporate aviation activity, including regular turboprop and small jet operations, driven by business travel associated with the new Applied Digital data center west of the city. The airport also supports the logistical needs of local, state, and federal agencies, enhancing public service delivery. Healthcare access is strengthened through visiting medical professionals who fly in to provide specialized care, while the airport serves as a staging area for air and ground ambulances, ensuring rapid transport of critically ill or injured patients to advanced facilities. Aerial applicators based at the airport treat thousands of acres annually, helping farmers and ranchers improve crop yields and livestock health. The airport also supports educational institutions and community outreach programs, contributing to workforce development and regional engagement. Whether facilitating business travel, emergency response, or agricultural operations, Ellendale Municipal Airport plays a critical role in enhancing the quality of life and economic vitality of the surrounding communities.



Airport Activities



Recreational Flying



Medevac



Corporate Activity



Physician Transport



Agricultural Spraying

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	13/31	3,499 ft x 60 ft	Asphalt	VIS / RNAV (GPS)
Secondary Runway	17/35	2,437 ft x 126 ft	Turf	VIS / VIS
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	4,600	4,660	0.06%
Based Aircraft	11	13	0.84%

Note: CAGR = Compound Annual Growth Rate