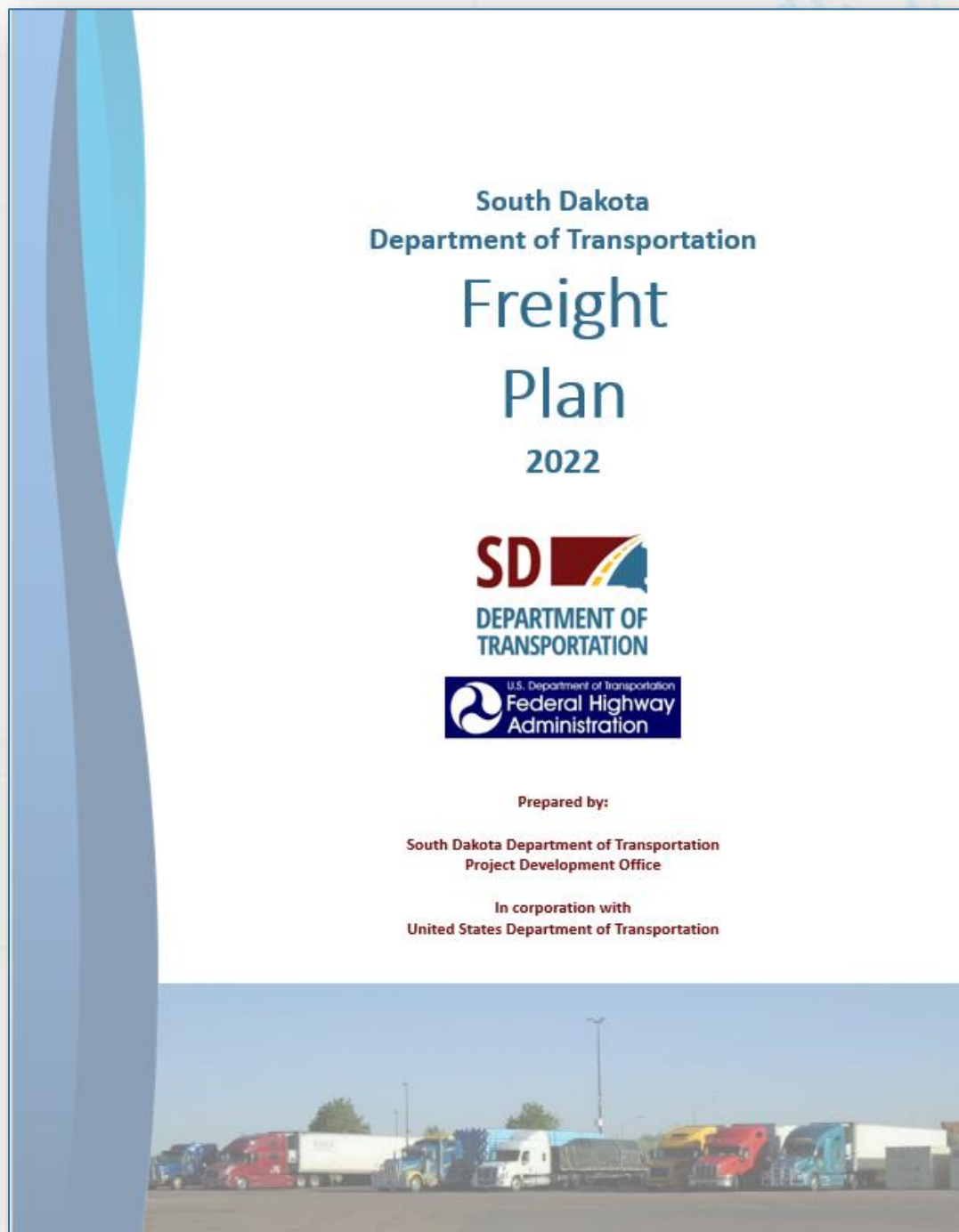


2022 SDDOT Freight Plan



Click Truck to Advance Presentation



What is the Freight Plan?

- Updated on a 4-year Cycle (**Reduced from 5**)
- Identifies Freight Contributions to SD's Economy
- Identifies Significant Freight Infrastructure and System Issues
- Provides Recommendations for Strategic Improvements
- Guidance for Freight-Related Transportation Investment
- Established by the FAST Act – Federal Funding Prerequisite, content expanded by the IIJA/BIL in 2021
- Defines the Vision and Goals for the National Freight Network

Projects may be added later by amending the plan's project listing appendix



Chapter Descriptions

CHAPTER 1: Mission, Vision, and Goals

CHAPTER 2: Freight Characteristics

CHAPTER 3: Transportation System

CHAPTER 4: Condition and Performance

CHAPTER 5: Strategies

CHAPTER 6: Funding the Transportation System



Freight Goals

Chapter 1

National Freight Goals	SDDOT Long Range Plan Goals						
	Improve transportation safety and security for all modes	Preserve and maintain the transportation system	Improve mobility, reliability, and accessibility	Preserve SD's quality of life	Support economic growth and development	Promote environmental stewardship	Promote innovative transportation technologies
Improve economic efficiency, productivity, and competitiveness			✓	✓	✓		✓
Reduce congestion, bottlenecks, and cost of freight transportation	✓	✓	✓	✓	✓	✓	✓
Improve safety, security, and resiliency	✓	✓	✓	✓		✓	
Improve state of good repair	✓	✓		✓	✓	✓	
Use advanced technology, innovation, and competition	✓		✓	✓	✓	✓	✓
Performance management and accountability	✓	✓		✓	✓	✓	
Reduce adverse environmental and community impacts	✓	✓	✓	✓	✓	✓	✓



Freight Characteristics

Table 2-1: South Dakota Commodity Shipments Ranked by Weight

Commodity - 2020	Thousand Tons	Commodity - 2050	2050 Thousand Tons
Total	193,330.11	Total	272,300.85
Cereal grains	58,783.65	Cereal grains	65,577.67
Coal-n.e.c.	45,430.73	Coal-n.e.c.	63,733.90
Other ag prods.	19,207.77	Animal feed	30,420.43
Animal feed	15,099.85	Other ag prods.	24,209.90
Nonmetal min. prods.	10,797.81	Nonmetal min. prods.	16,418.67
Gravel	7,080.63	Gravel	10,632.09
Other foodstuffs	4,856.22	Fertilizers	8,165.70
Gasoline	4,451.65	Other foodstuffs	7,270.20
Nonmetallic minerals	3,442.06	Live animals/fish	7,168.74
Fertilizers	3,068.29	Gasoline	5,528.16
Live animals/fish	2,304.87	Mixed freight	3,653.43
Fuel oils	2,189.64	Wood prods.	3,192.99

Table 2-2: South Dakota Commodity Shipments Ranked by Value

2020	Value Millions of US Dollars	2050	Value Millions of US Dollars
Totals	86,529.4	Totals	159,686.7
Coal-n.e.c.	8,646.8	Live animals/fish	19,040.6
Cereal grains	6,937.2	Mixed freight	13,096.5
Mixed freight	6,555.7	Coal-n.e.c.	12,244.5
Other ag prods.	6,428.2	Machinery	9,106.4
Live animals/fish	6,035.6	Chemical prods.	8,938.4
Machinery	5,029.9	Plastics/rubber	8,783.8
Electronics	4,149.9	Electronics	8,216.8
Motorized vehicles	3,982.4	Other ag prods.	8,033.6
Other foodstuffs	3,866.8	Cereal grains	7,800.6
Plastics/rubber	3,748.3	Motorized vehicles	7,775.9
Chemical prods.	3,539.6	Pharmaceuticals	6,609.0
Gasoline	2,383.5	Misc. mfg. prods.	5,842.1

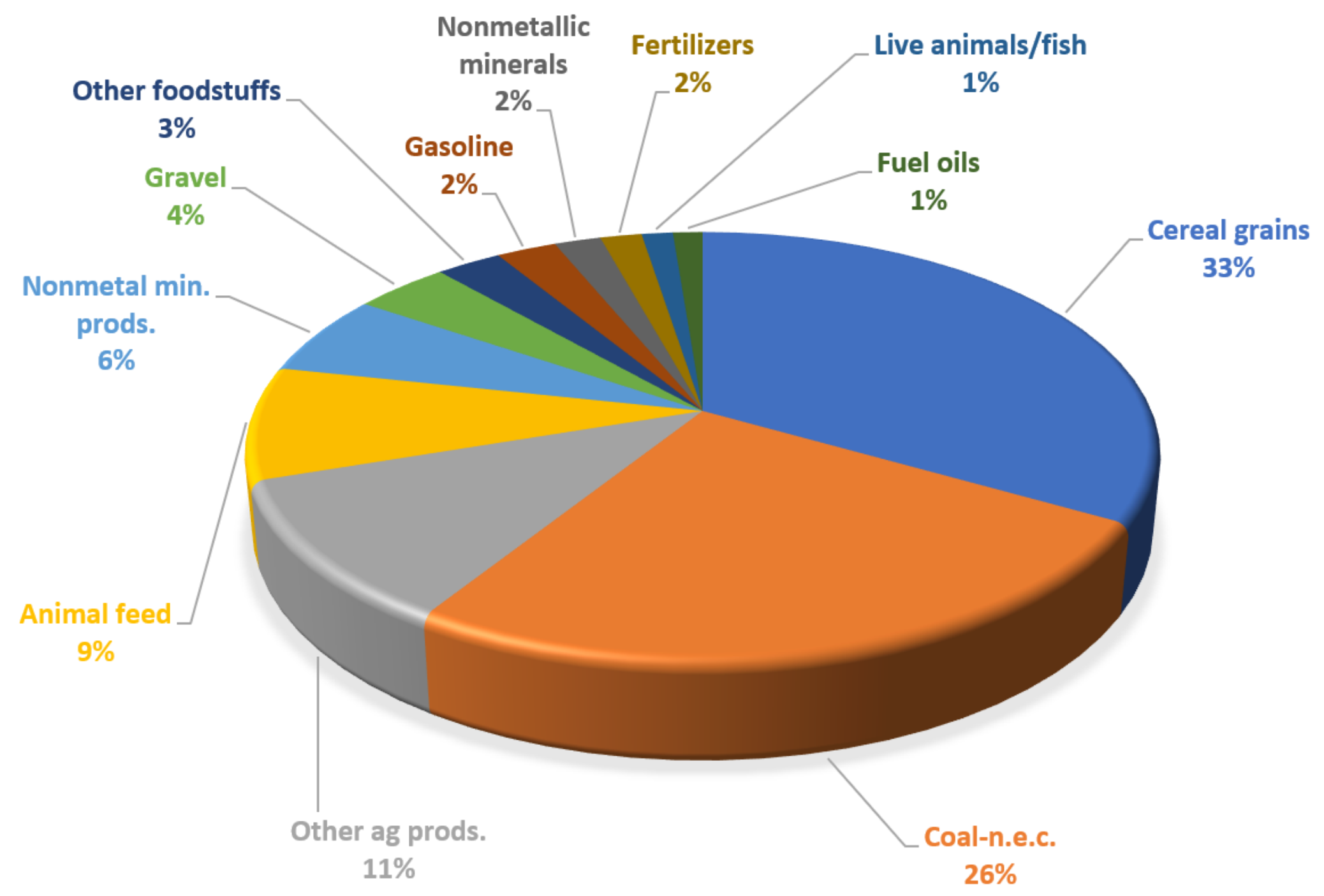
Data source is the Freight Analysis Framework at:

<https://faf.ornl.gov/faf5/>



By Weight

Top Commodities





Top Commodities

By Mode

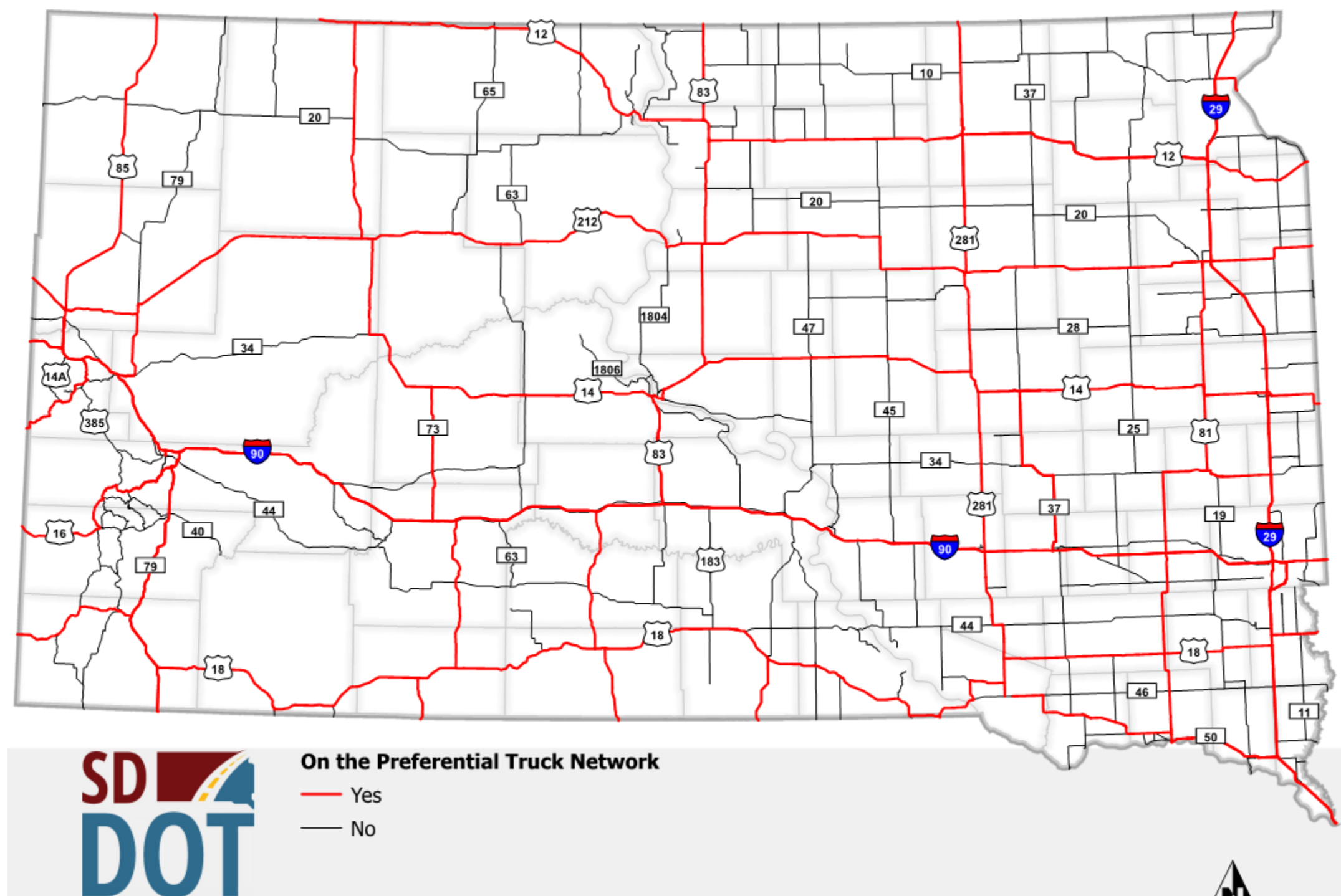
Mode of Freight Movement by Weight (Millions of Tons)	2020	2050	Percent Change
Total	187.906	264.169	41%
Truck	118.453	169.991	44%
Pipeline	41.668	59.858	44%
Rail	19.148	22.618	18%
Multiple modes & mail	8.636	11.701	35%
Air (include truck-air)	0.001	0.002	85%

Mode of Freight	2020	2050	Percent Change
Total	\$83,630.73	\$153,790.36	84%
Air (include truck-air)	\$163.98	\$353.89	116%
Multiple modes & mail	\$10,658.00	\$22,116.51	108%
Pipeline	\$7,983.48	\$11,476.12	44%
Rail	\$3,803.57	\$4,935.23	30%
Truck	\$61,021.70	\$114,908.63	88%



Transportation System

South Dakota Preferential Truck Network

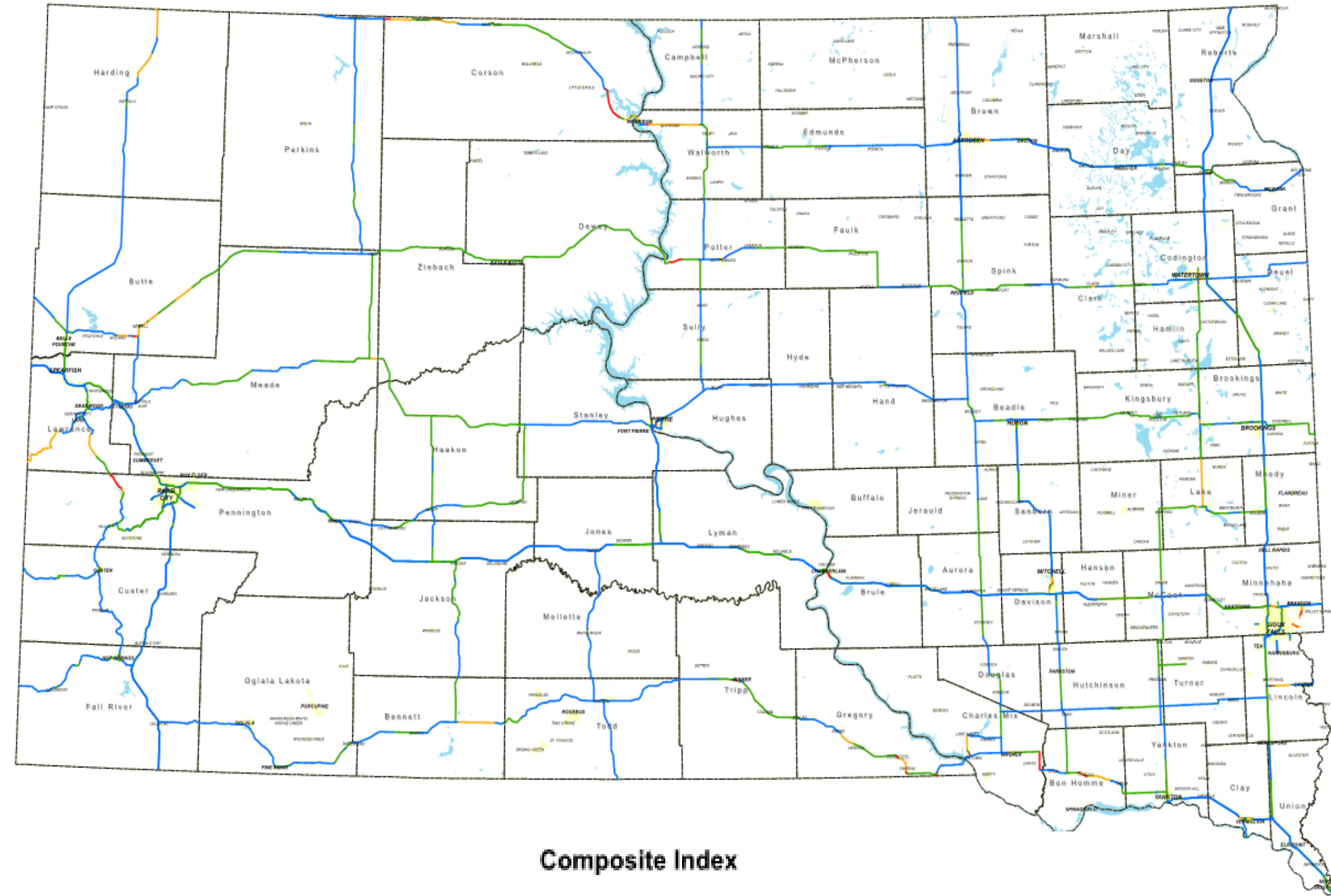


South Dakota Department of Transportation, Division of Planning and Engineering, Office of Inventory Management and Research



Condition and Performance

Chapter 4



Composite Index

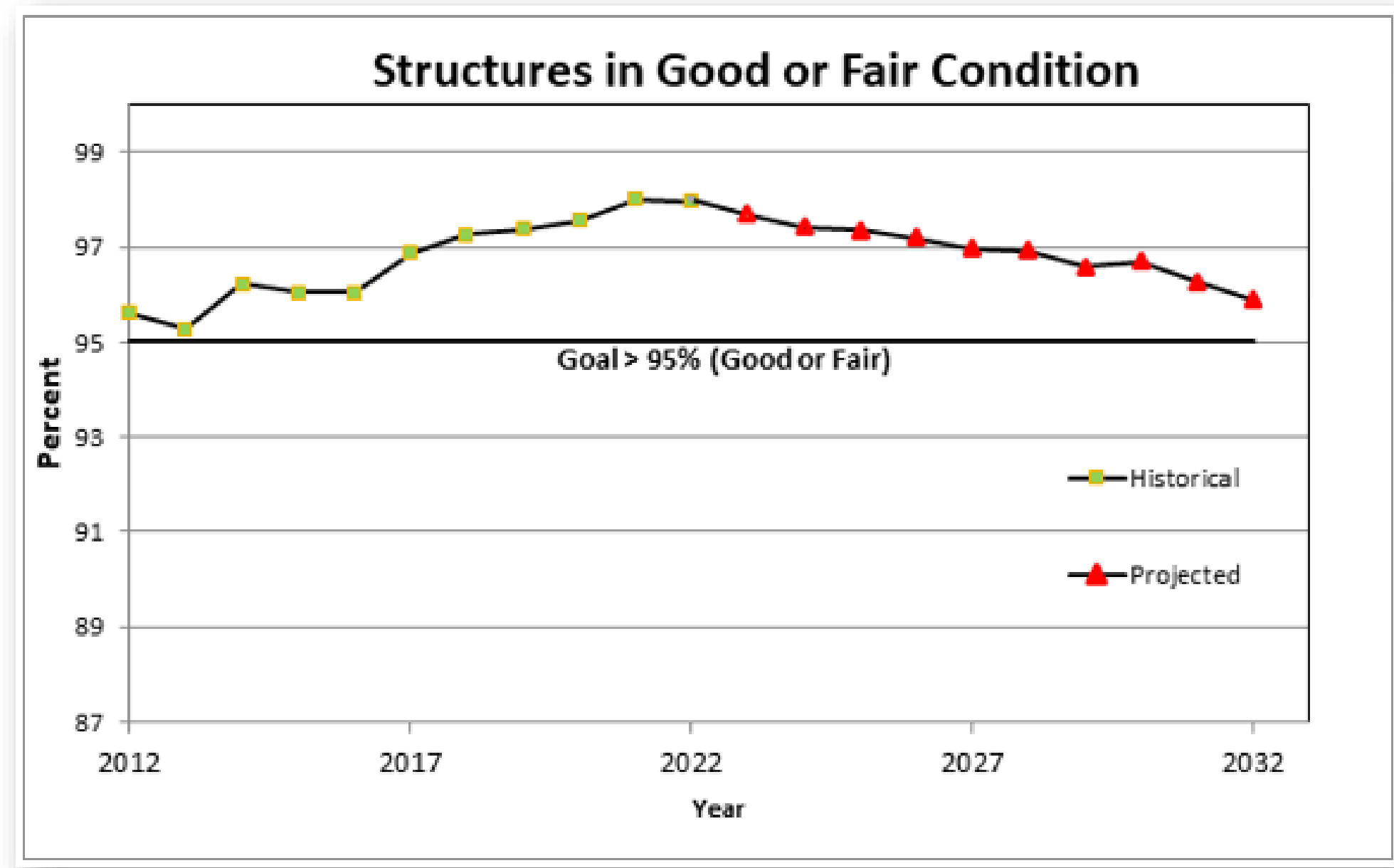
— Poor (0.00 - 2.09) — Fair (2.10 - 3.39) — Good (3.40 - 4.49) — Excellent (>= 4.50)

South Dakota Highway Surface Condition Index NHS



Condition and Performance

Chapter 4





Strategies

10. Use pavement and bridge management systems and Transportation Asset Management Plan to prioritize improvements on the freight network.

South Dakota will continue to use its pavement management system and bridge management system to program projects. The pavement management system determines the best treatment for pavements to maximize the efficient use of highway funds. The bridge management system manages bridge improvements to maximize the efficient use of highway funds. South Dakota developed performance measures and targets for pavements and bridges published in the Transportation Asset Management Plan and reported to FHWA. The performance measures identified in TAMP will support the freight plan and continue to use the pavement and bridge management systems to prioritize infrastructure improvements in the Statewide Transportation Improvement Program. The TAMP can be found at: <https://dot.sd.gov/media/documents/SDDOT2019TAMPFHWAsubmittalrevised8-28-2019.pdf>

14. Improve understanding of international and Interstate corridor movements.

South Dakota's economy relies heavily on interstate and international freight movement. South Dakota will continue to monitor this movement and could study interstate and international freight movements and how they affect South Dakota's freight transportation system. The North/West Passage Freight Task Force consists of representatives from Minnesota, North Dakota, South Dakota, Montana, Wyoming, Idaho, and Washington; focusing on mutual interests along the I90 and I94 interstate corridors, shown in figure 5-1.





National Highway Freight Program

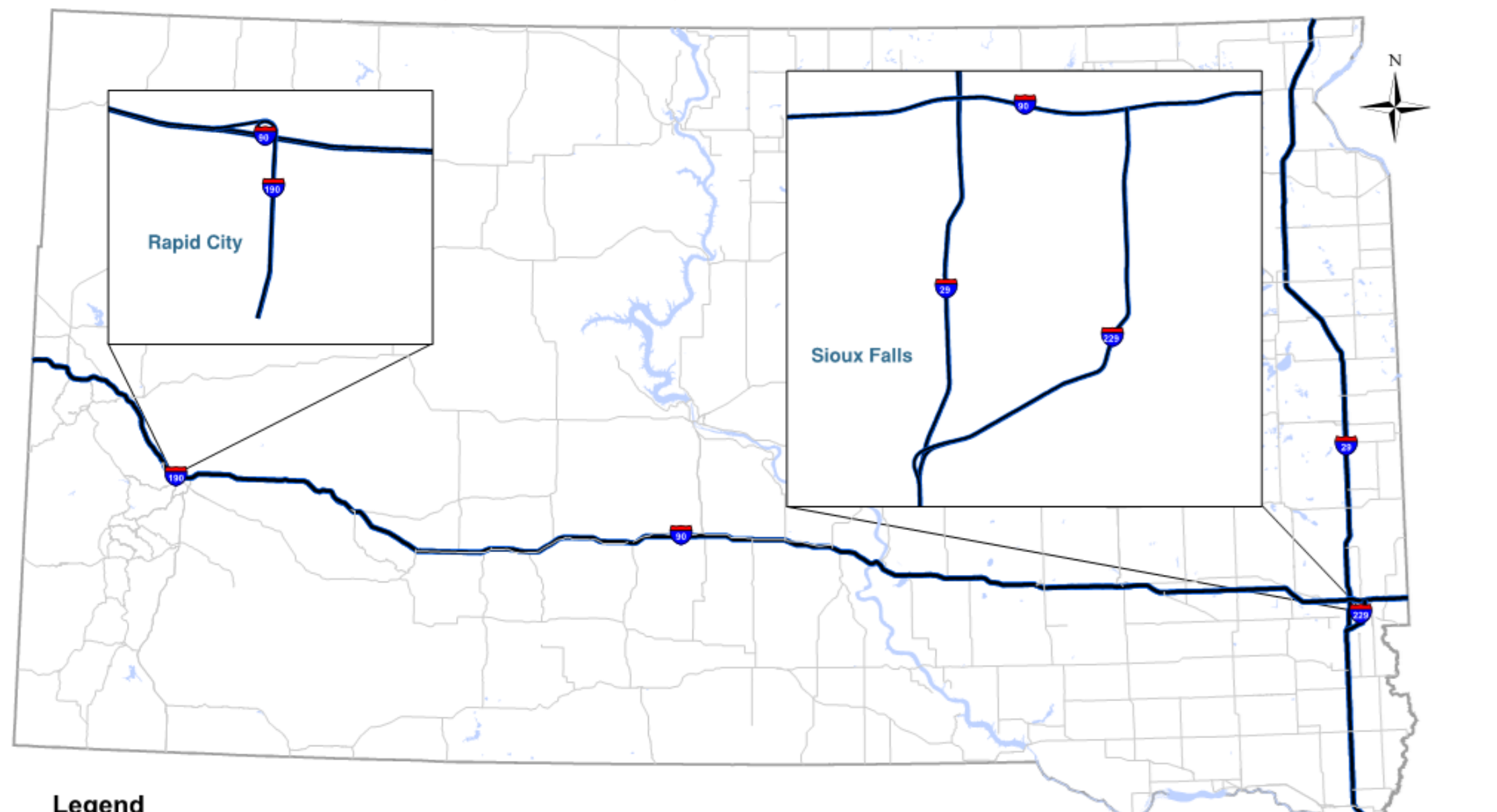
NHFP funds can only be used on the following network:

- Primary Highway Freight System (PHFS) Map 6-1 ✓
- Critical Rural Freight Corridors (Maximum of 600 miles)
- Critical Urban Freight Corridors (Maximum of 75 miles)
- Portions of the Interstate not designated as part of the PHFS



Eligible Routes

National Highway Freight Network - South Dakota



Legend

- Interstate
- Other State Highways

0 25 50 Miles



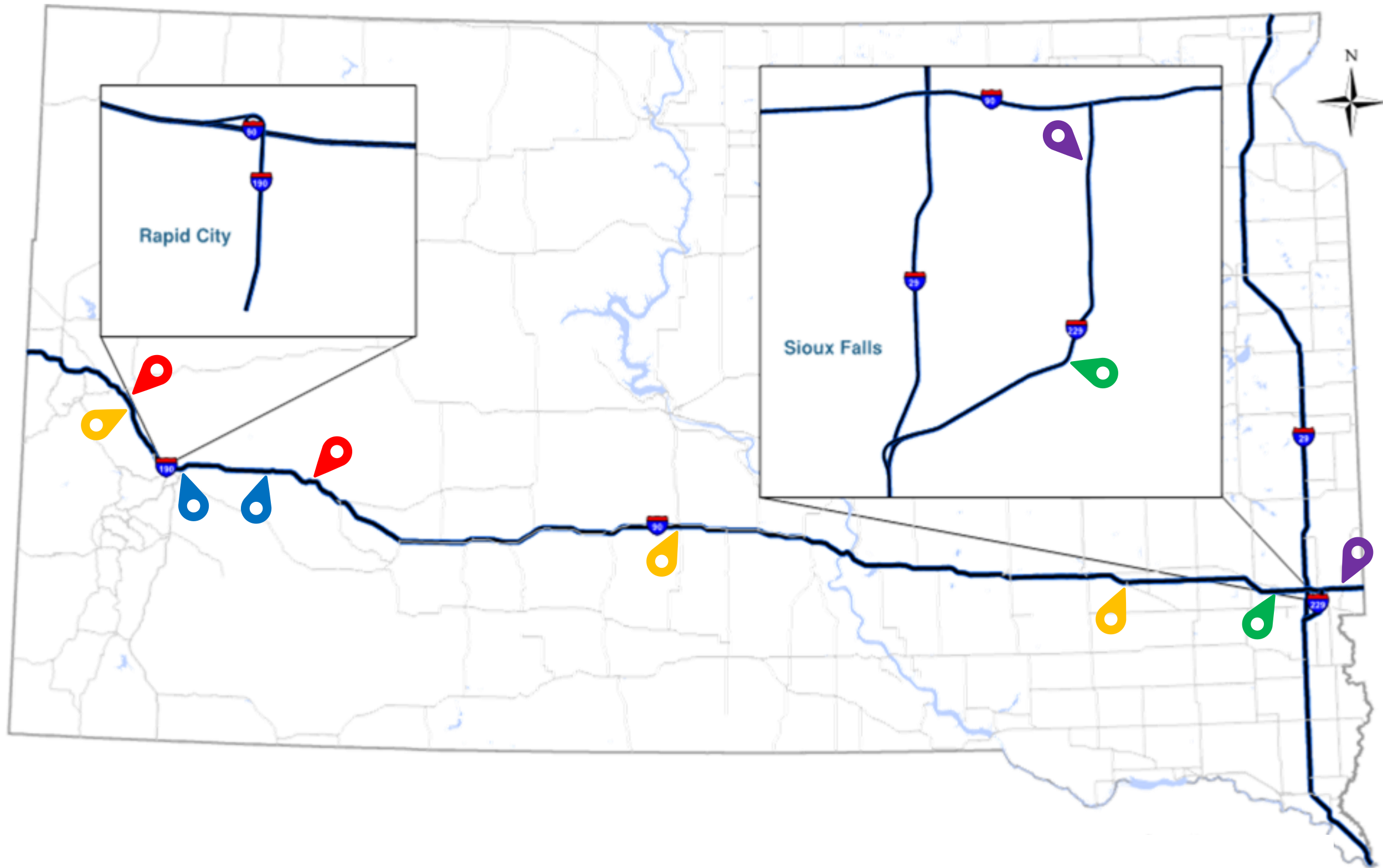
Prepared by
South Dakota Department of Transportation
Office of
Transportation Inventory Management
In cooperation with the
U.S. Department of Transportation
Federal Highway Administration

Sioux City



Projects and Funding

Chapter 6



- 2023
- 2024
- 2025
- 2026
- 2027



Input Opportunities

- Website: <https://dot.sd.gov/projects-studies/planning/draft-freight-plan>
- Online Comment Portal
- Virtual Public Meeting



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