

2026 State of the Structures



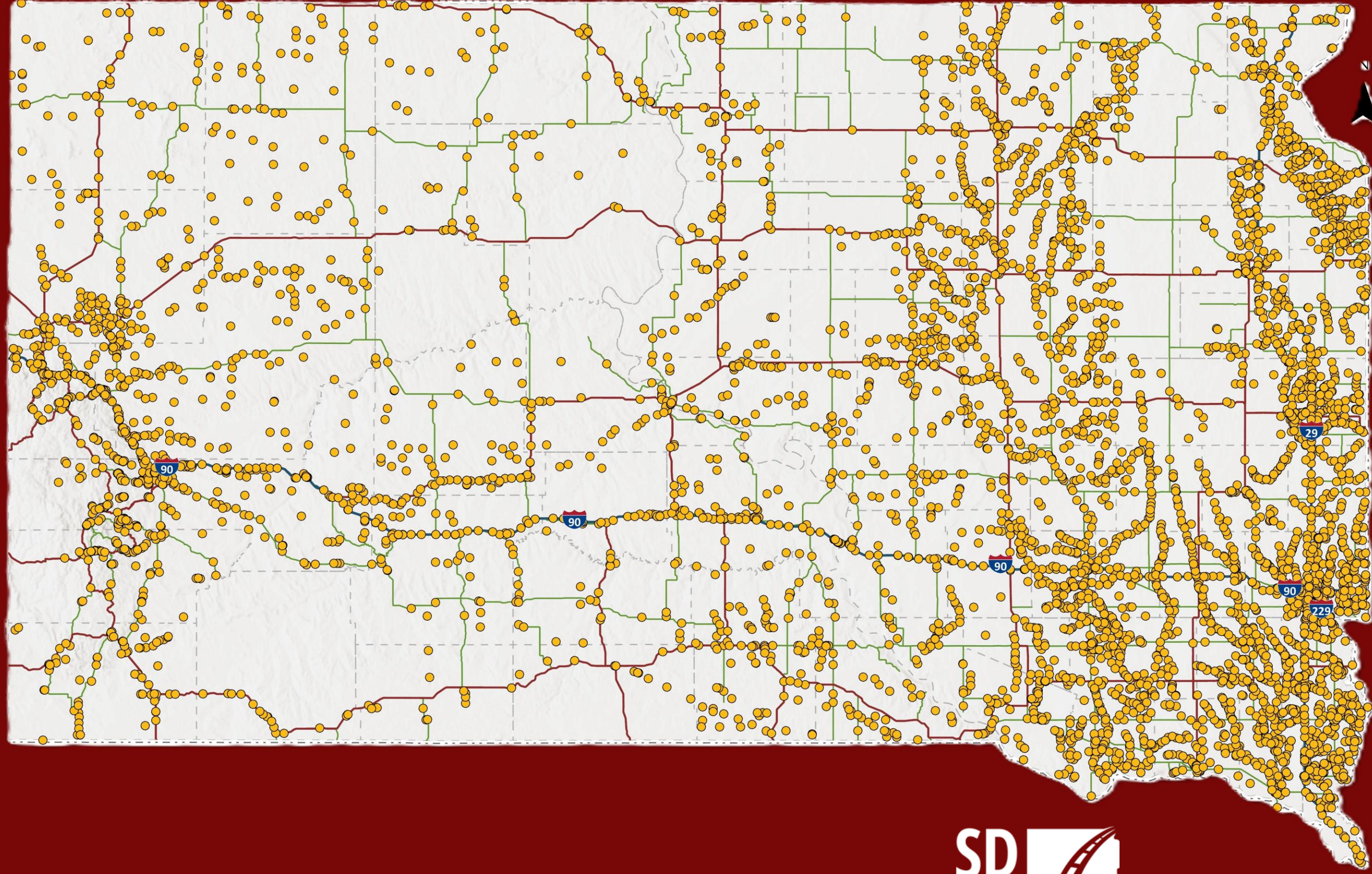
SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

Steve Johnson PE, Chief Bridge Engineer

Doug Kinniburgh, Local Government Assistance Supervisor

SD
DOT

Structures in South Dakota



STATE STRUCTURES

1,839 Total Structures

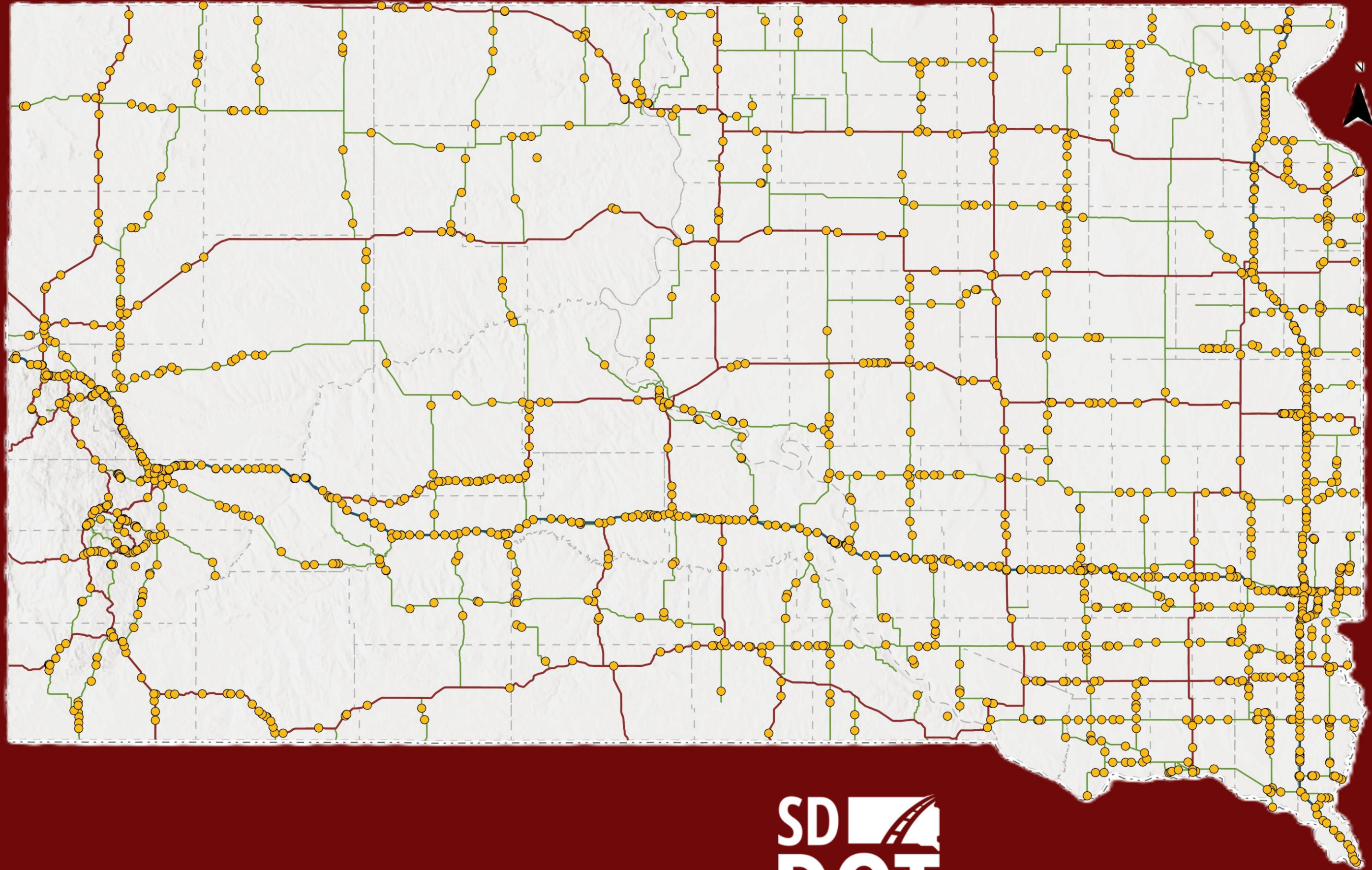
1823 SDDOT & 16 SDGF&P

1251 Bridges

588 Culverts

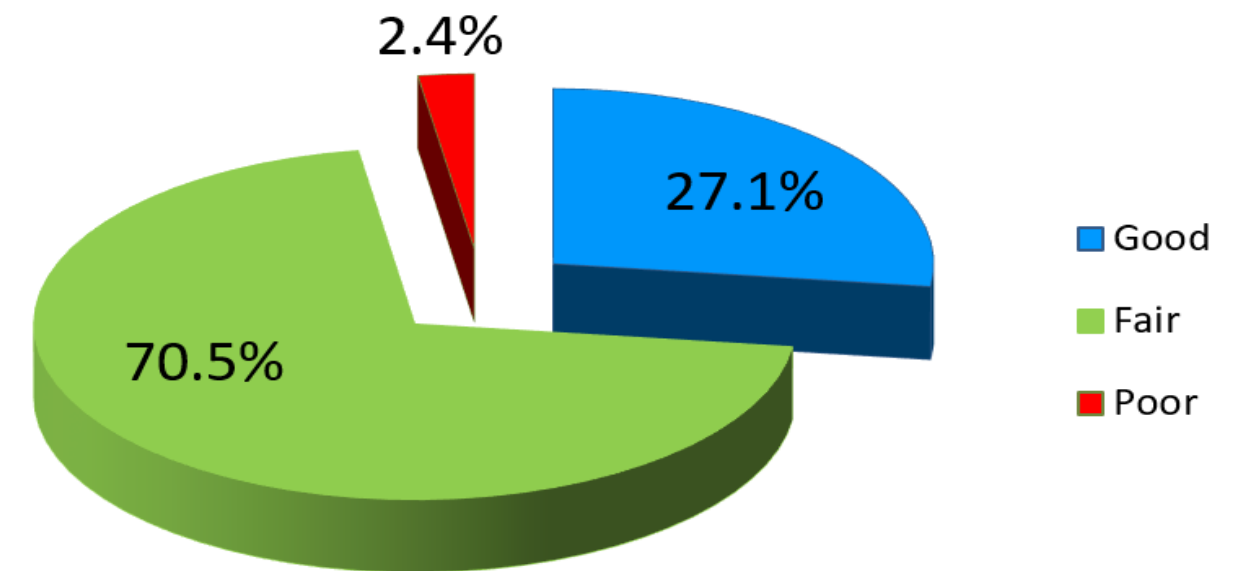


State Highway Structures

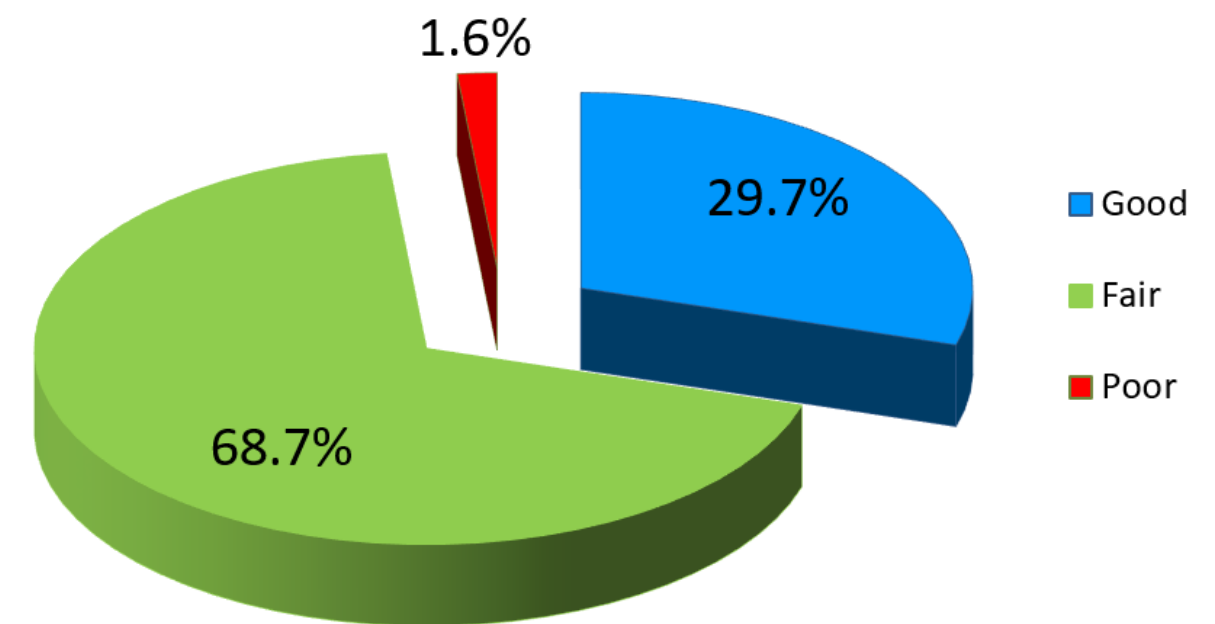




2026 Condition of State Structures (by % deck area)



2026 Condition of State Structures (by percentage of total)



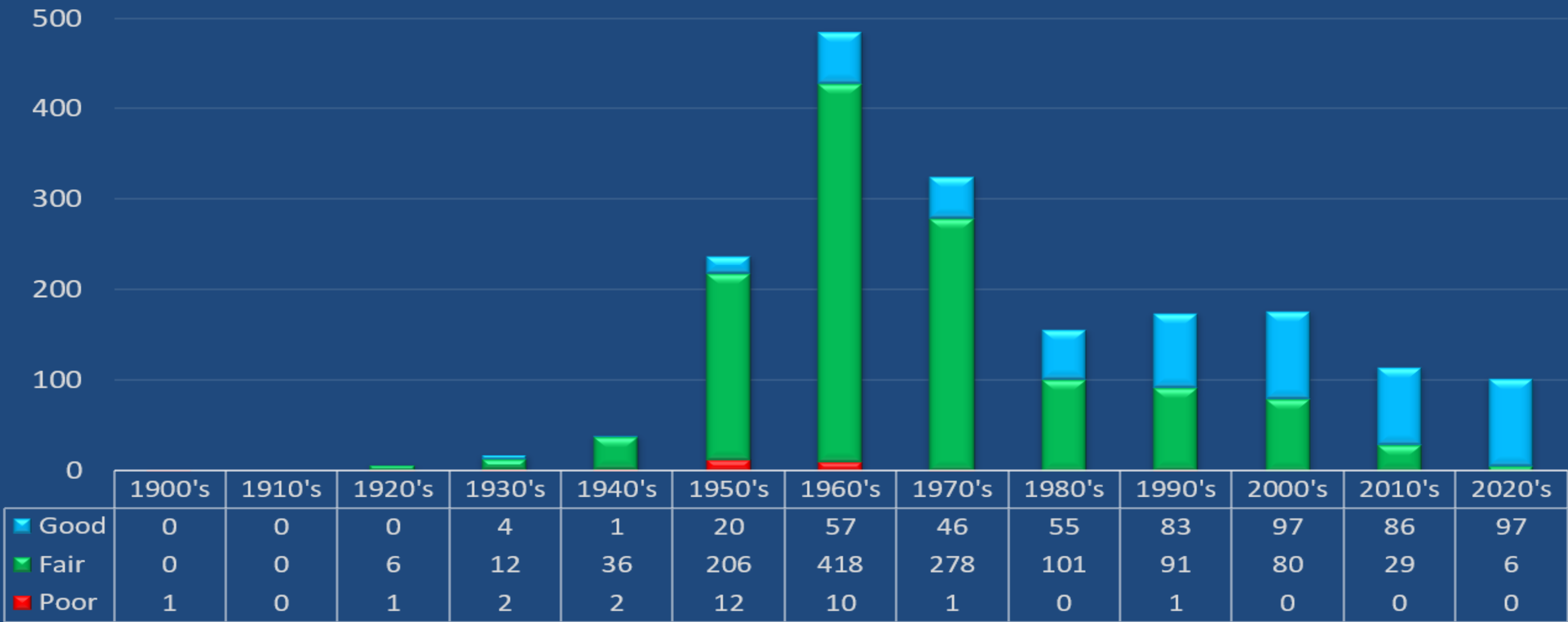
The Average State-owned Structure in South Dakota is 47 years old

58% of state-owned bridges are at least 50 years old

National average bridge age is 47 years old

More than half (54%) of the state-owned bridges from the 1960's and 1970's are Interstate bridges

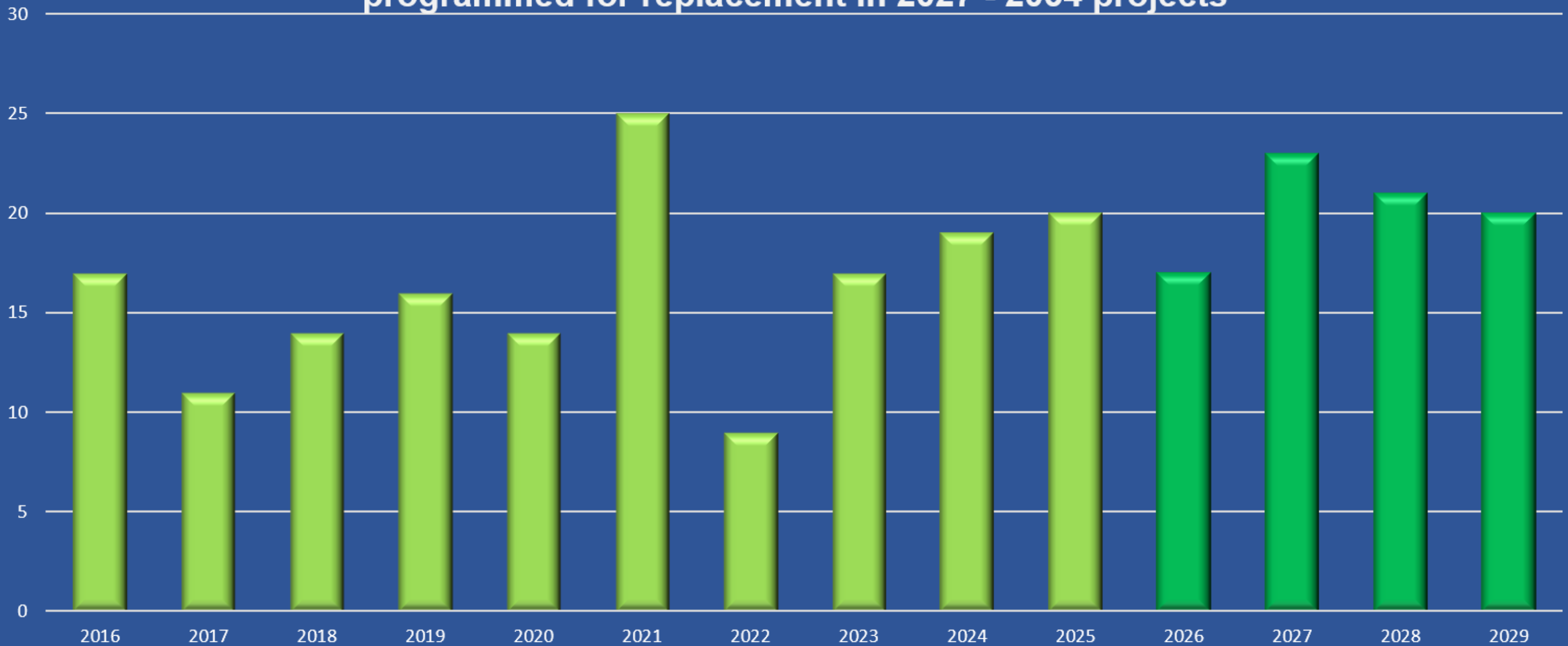
State Structures by Decade of Original Construction



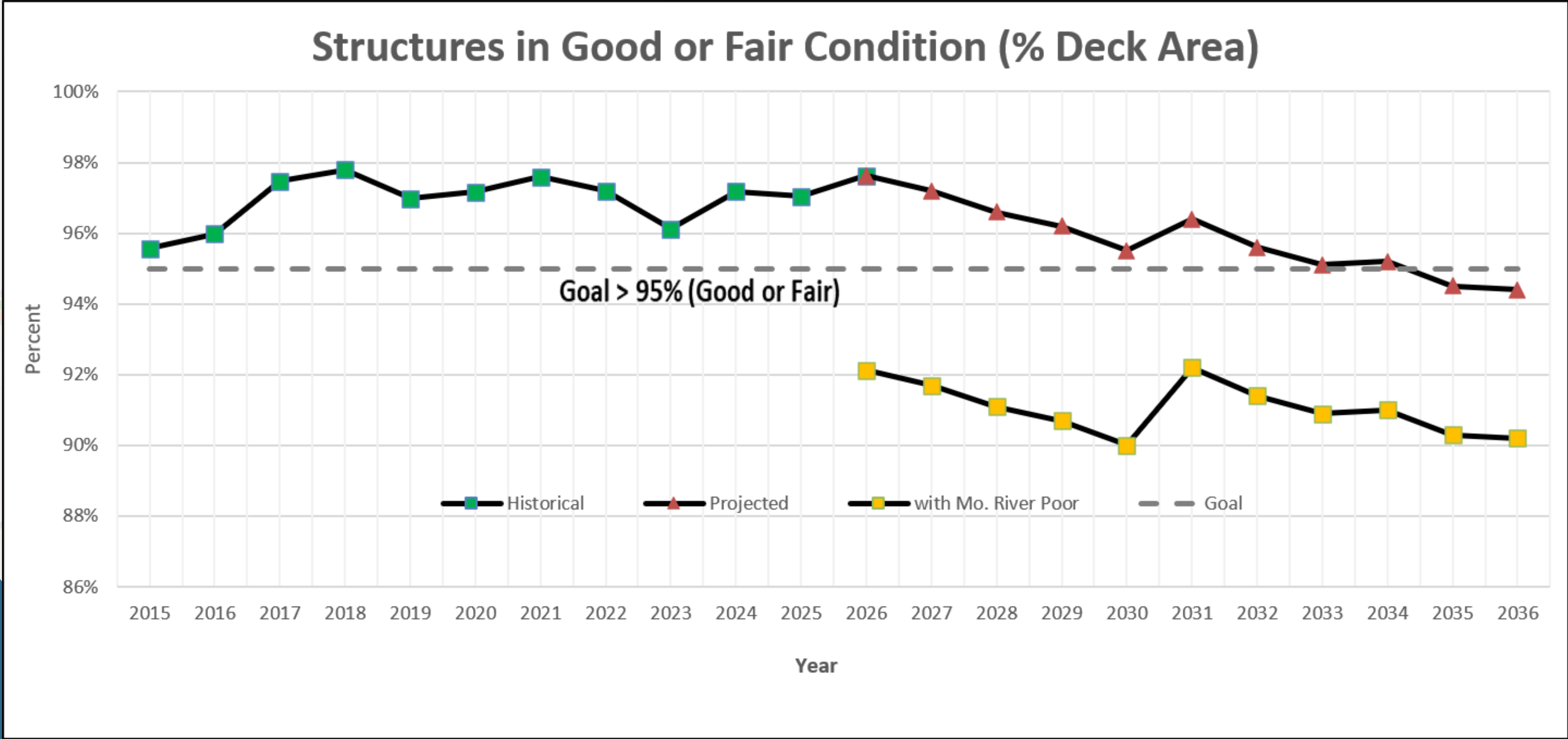
■ Poor ■ Fair ■ Good

Number of New Structures Constructed on the State System

- Actual and Forecast - Currently 48 Interstate Bridges are programmed for replacement in 2027 - 2034 projects



Historical & Projected Condition – Including if 5 Missouri River Bridges are Poor



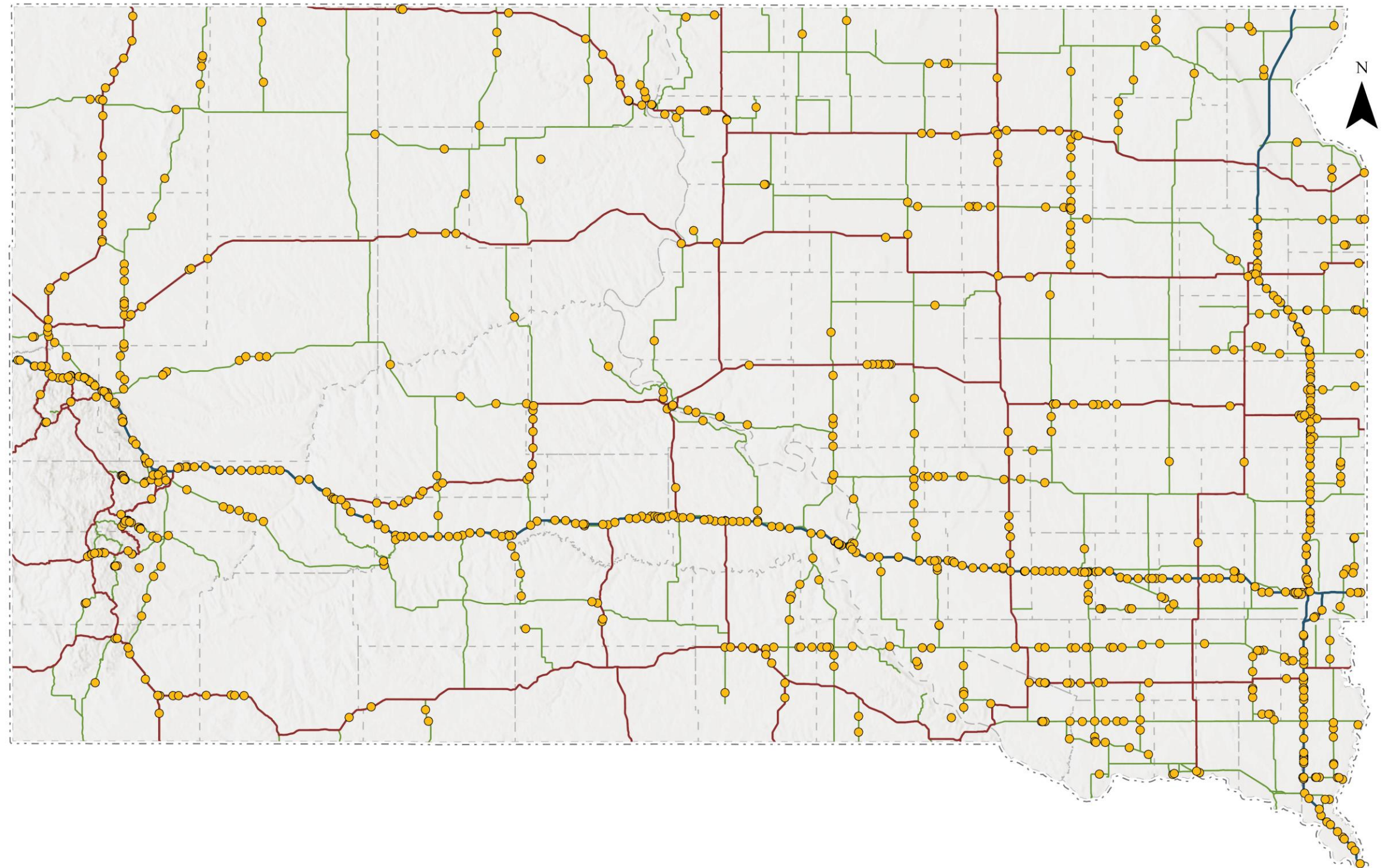
STATE STRUCTURES

1,839 Total Structures

57% > 50 years old

Our aging inventory will create challenges in the near future. A preliminary estimate is that 884 bridges are nearing the end of their service life in the next 20 years with a replacement cost of \$3.6 Billion.

Map of State Structures at least 50 years old



South Dakota Department of Transportation, 2026.

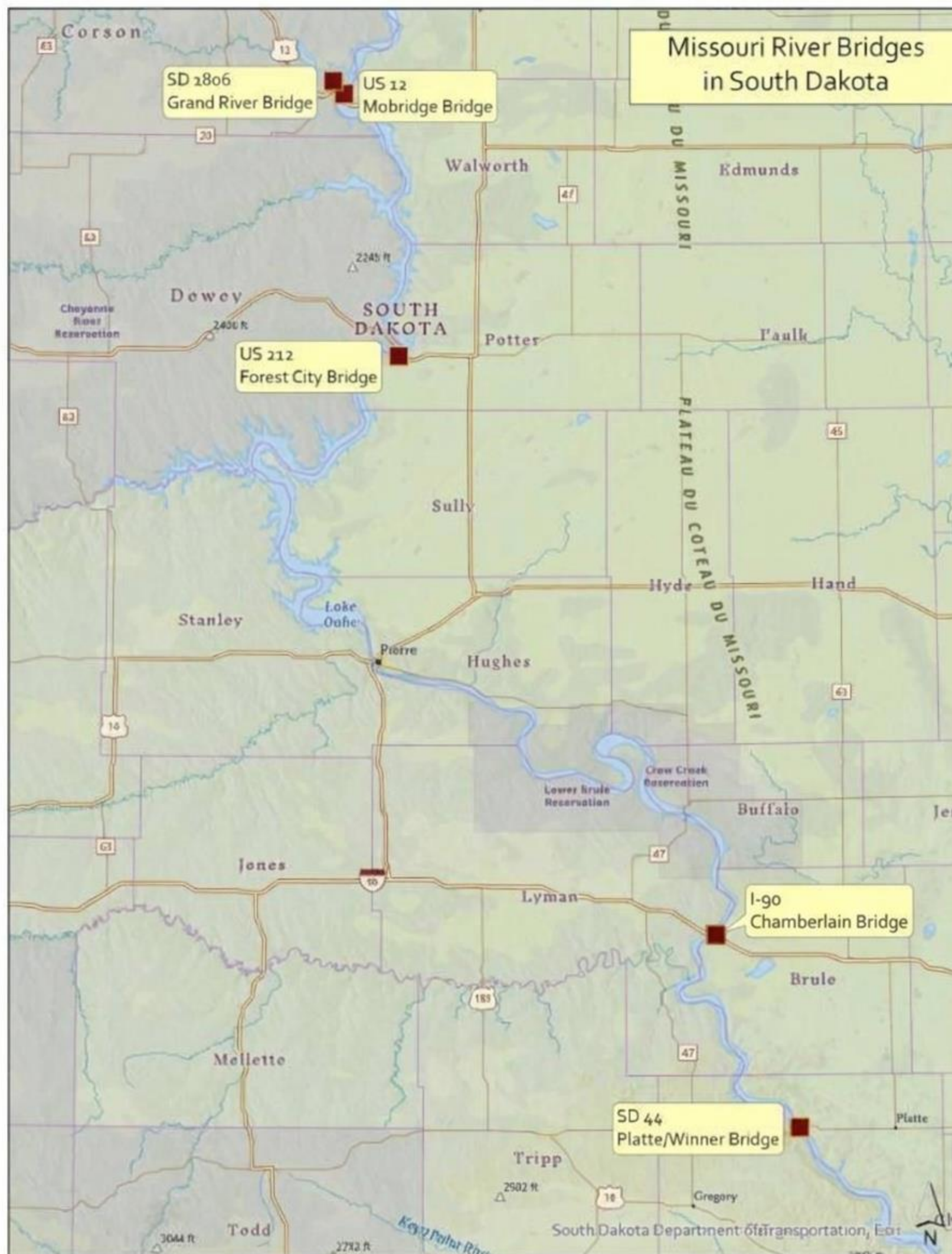
General Information

	Number of Structures	Cost
Number of Programmed replacements through 2034	218	-
Forecasted Replacements 2035 - 2040	160	\$ 1,045,920,845.92
Forecasted Replacements 2041- 2050	252	\$ 1,367,004,488.82
Forecasted Replacements 2051- 2060	240	\$ 1,158,705,417.38

Forecasted Structure Type and Cost Breakdown by Category

		Bridge
2035-2040	Bridge	154
	Bridge Cost	\$ 1,034,859,176.22
	Culvert	6
	Culvert Cost	\$ 11,061,669.70
2041-2050	Bridge	232
	Bridge Cost	\$ 1,331,753,586.07
	Culvert	20
	Culvert Cost	\$ 35,250,902.75
2051-2060	Bridge	184
	Bridge Cost	\$ 1,059,546,736.53
	Culvert	56
	Culvert Cost	\$ 99,158,680.85

Scheduled Replacements of Major Bridges over the Missouri River



Major Bridge Project recently Let:

Platte-Winner Bridge
on SD44

August 5, 2026 Letting

\$313.5 Million total cost

October 22, 2026
Groundbreaking



Major Bridge Project *In the Works:*

US 212 over Missouri
near Forest City

2032 – 2036 Target

\$400 Million

Route Location Study
Underway



Major Bridge Project *In the Works:*

US 12 over the Missouri River along with a BNSF Crossing in Mobridge

2034 – 2038 Target

\$350 Million

Study to begin soon



**Major Bridge Project *In
the Works:***

**I90 over the Missouri
River near Chamberlain**

2038 – 2040 Target

\$305 Million

Long Range Planning



Major Bridge Project *In the Works:*

SD 1806 over the Grand River (Singing Bridge)

2039 – 2042 Target

\$257 Million

Long Range Planning



FUNDING FOR STATE STRUCTURES

▶ STATE FUNDS

Fuel Tax & Excise Tax

- Match for federal funds
- Structure maintenance

▶ FEDERAL FUNDS

Federal legislation-IIJA

- Bridge Formula Funds
- Highway Infrastructure Program (HIP) funds
- Competitive Bridge Grants

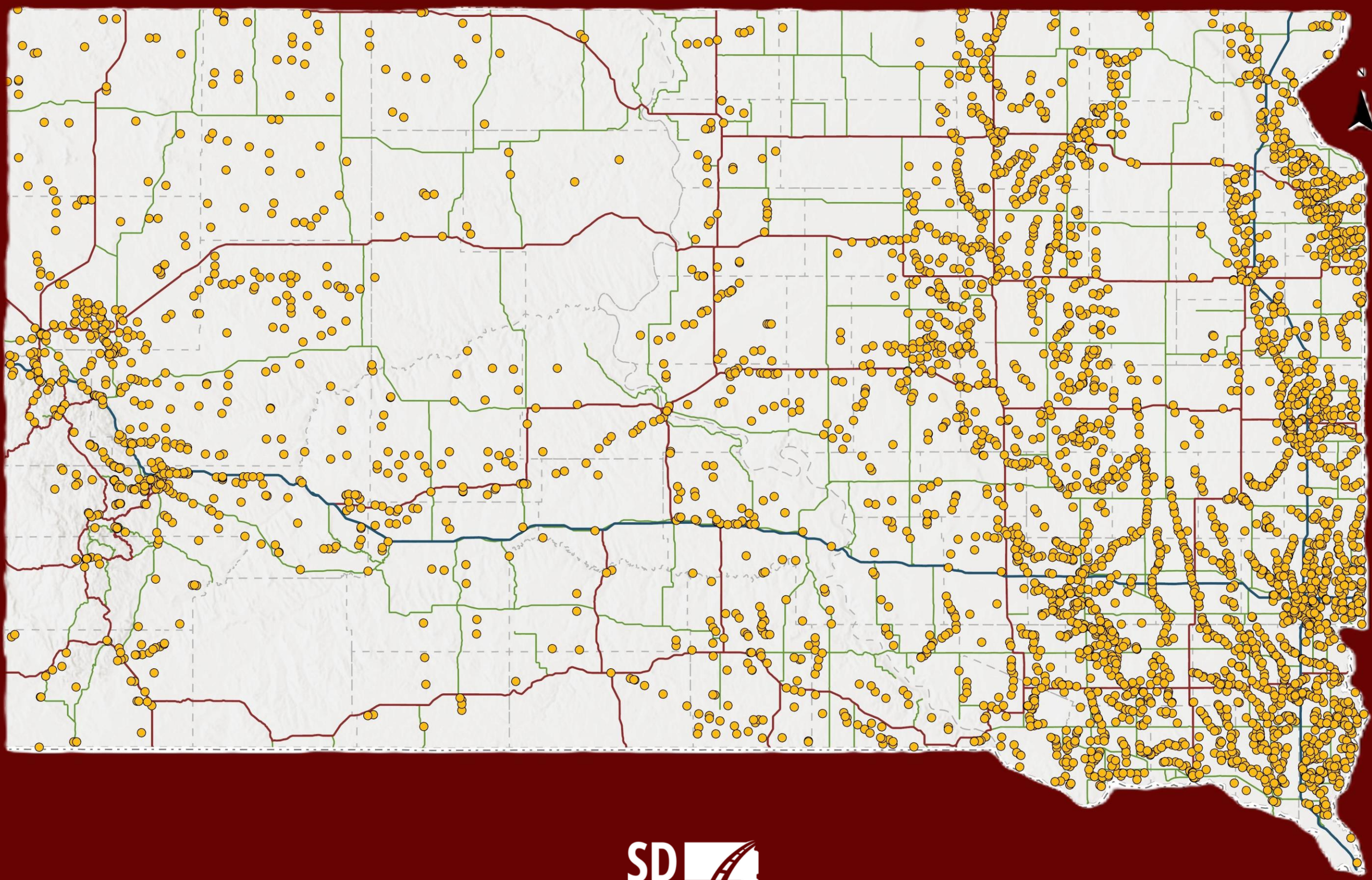
Local Government Inventory

Total Structures – 3905

- County – 3629
- City - 206
- Town – 70

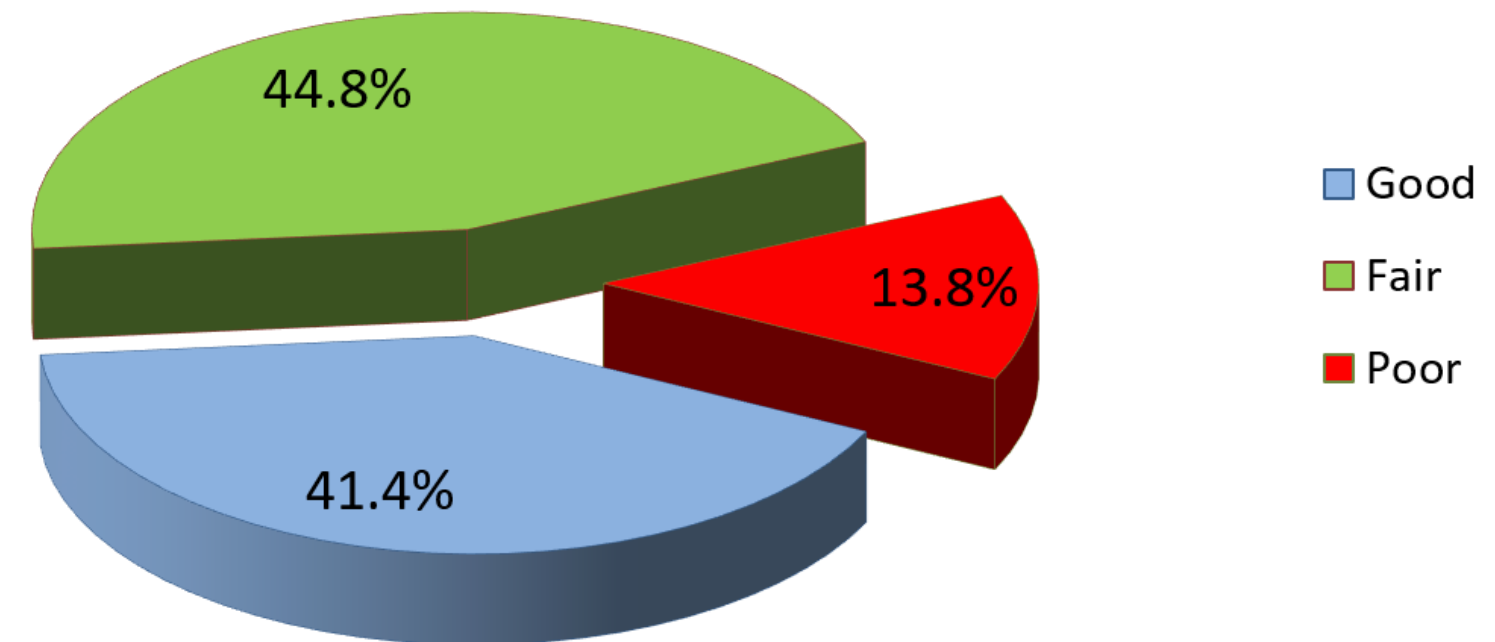


Local Government Owned Structures

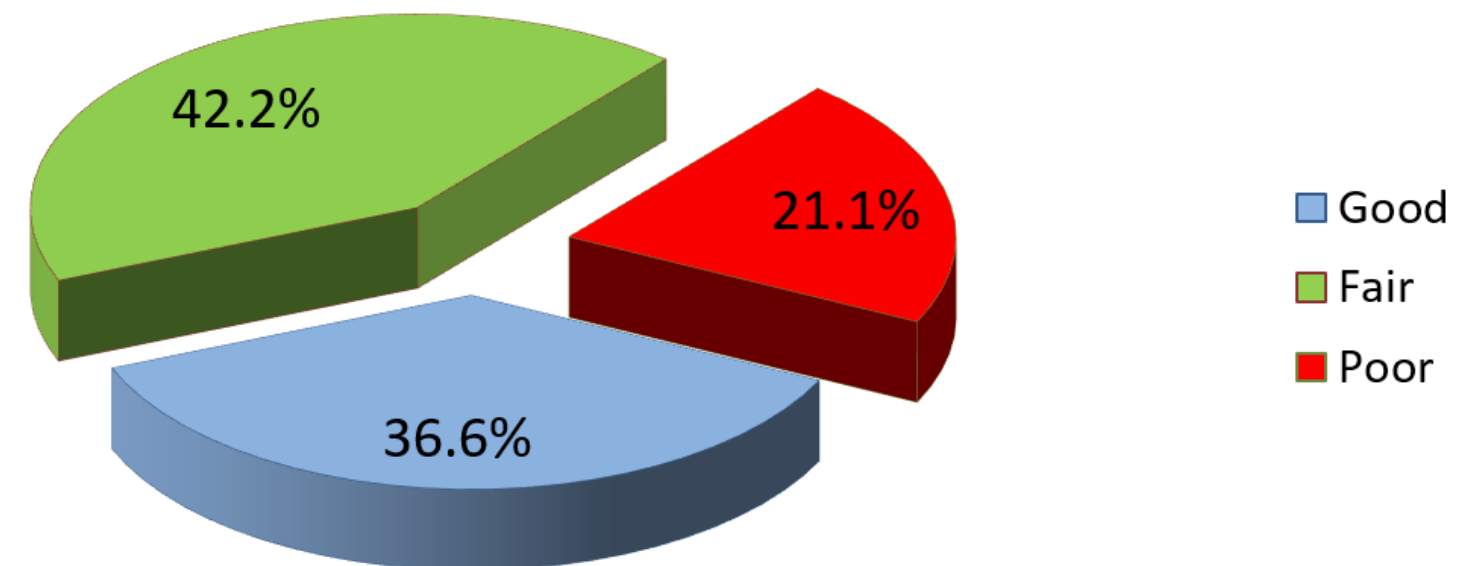




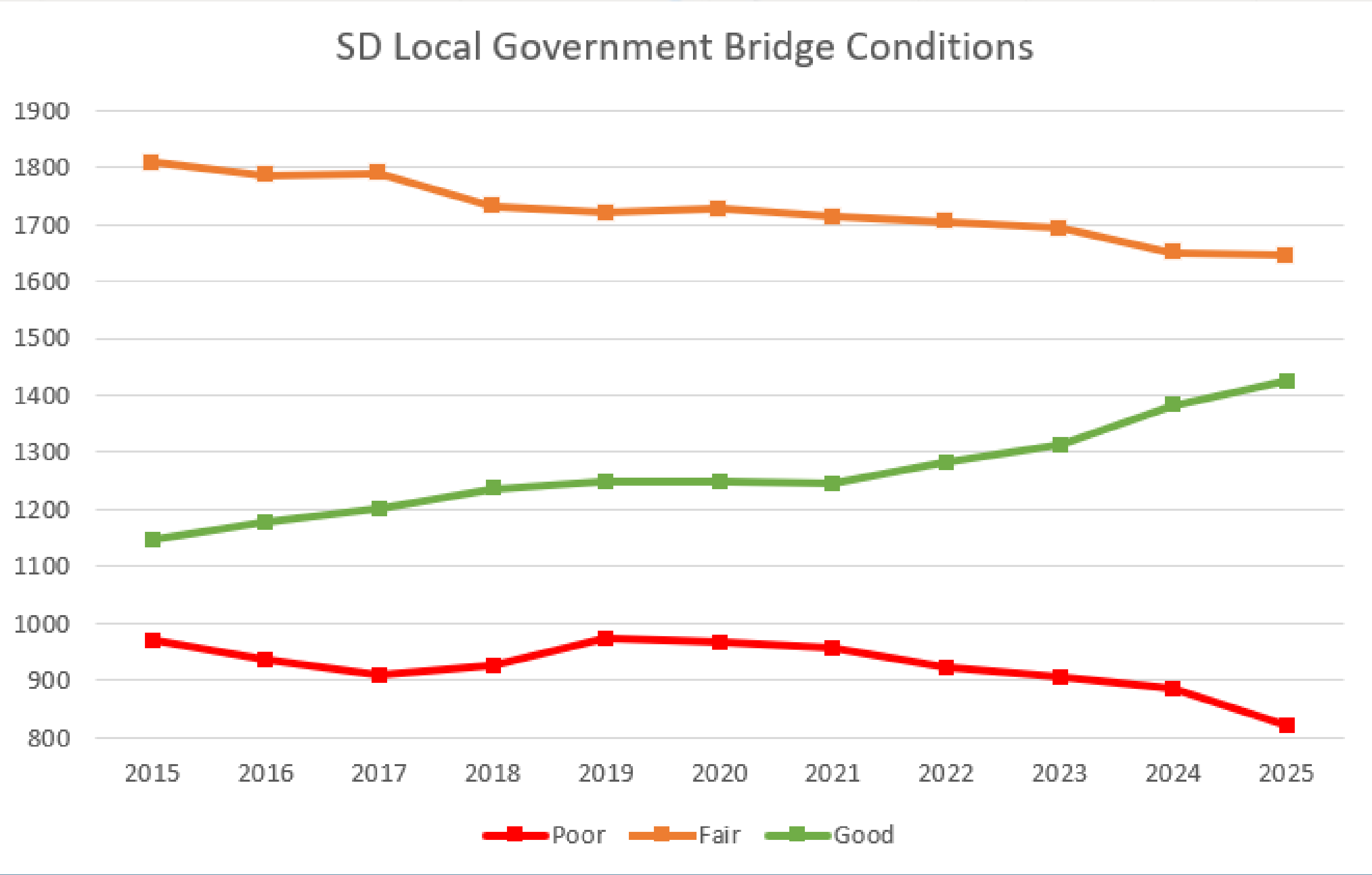
2026 Condition of Local Government owned Structures (as a percentage of deck area)



2026 Condition of Local Government owned Structures (as a percentage of total structures)

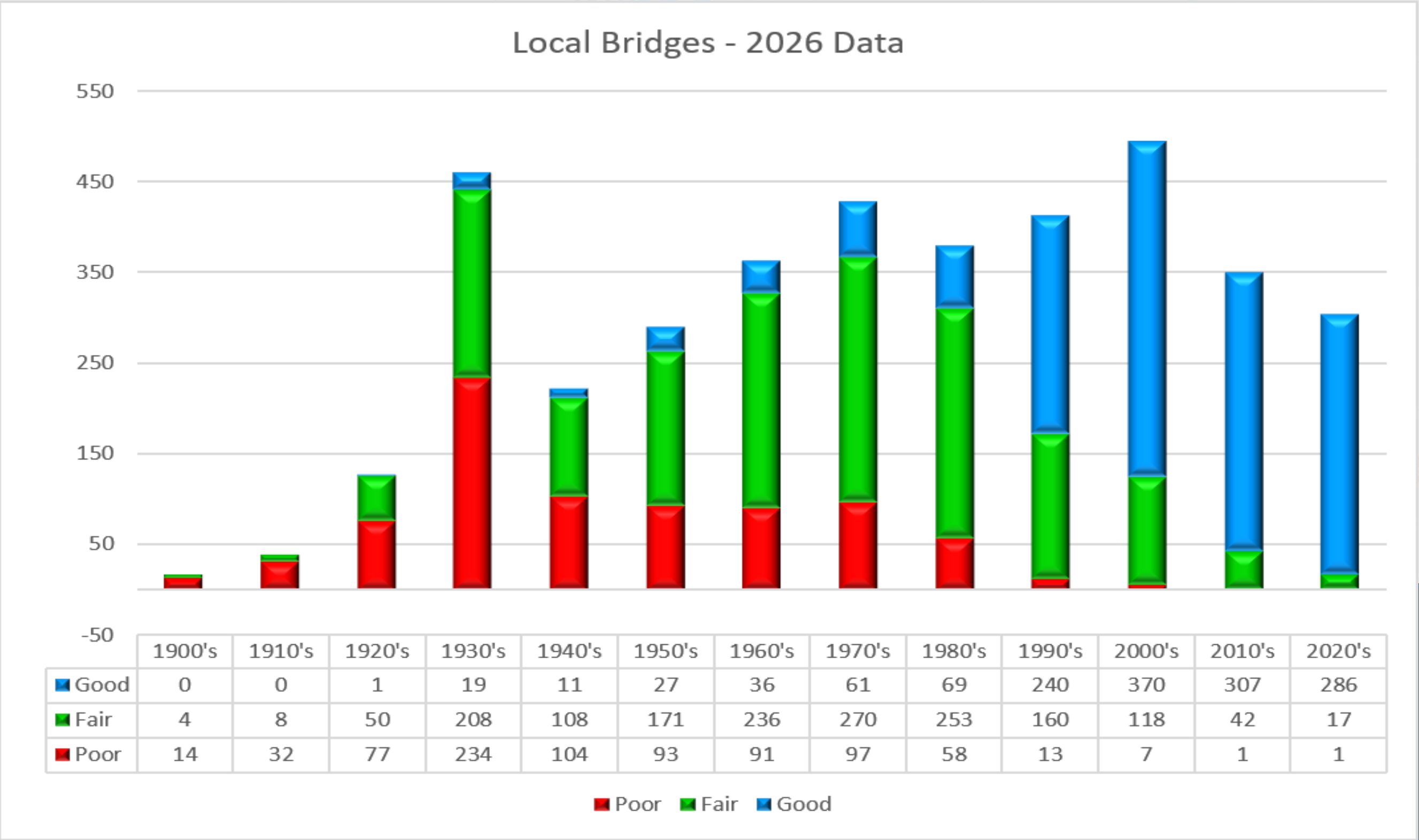


We Are Making Progress!

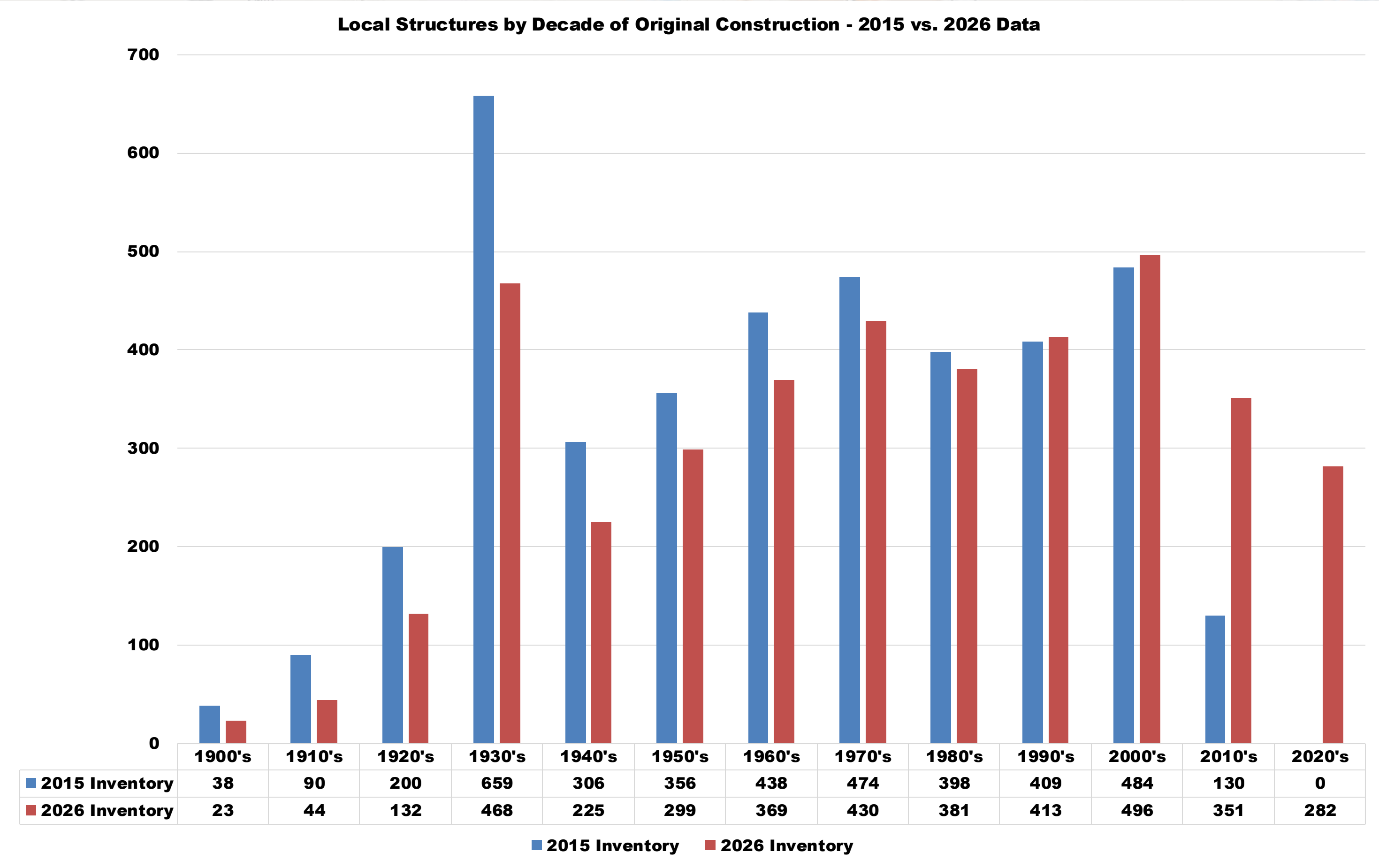


Average age of local government structures in South Dakota is 49.1 years old

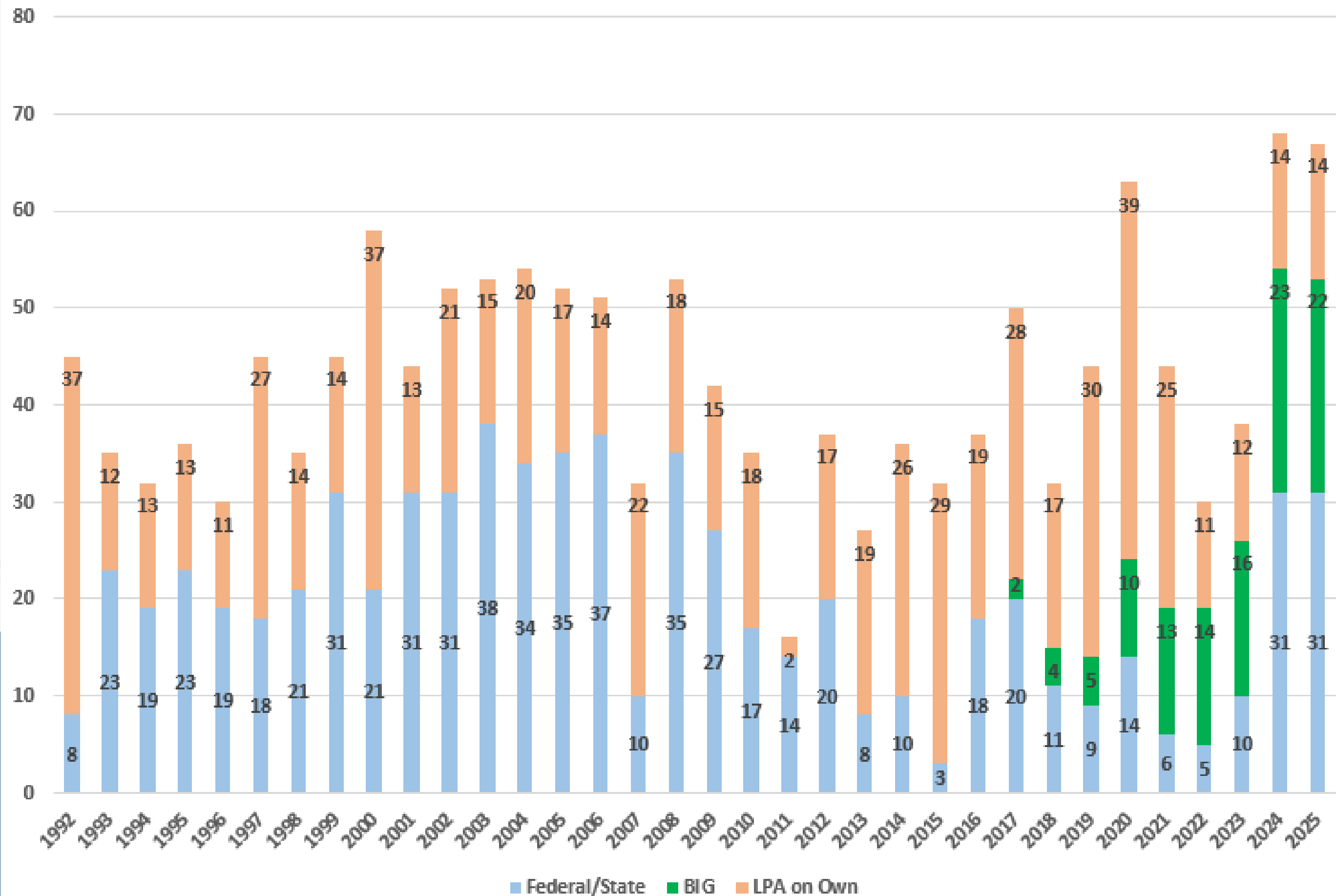
National average age is 47 years old



Comparison Decade by Decade

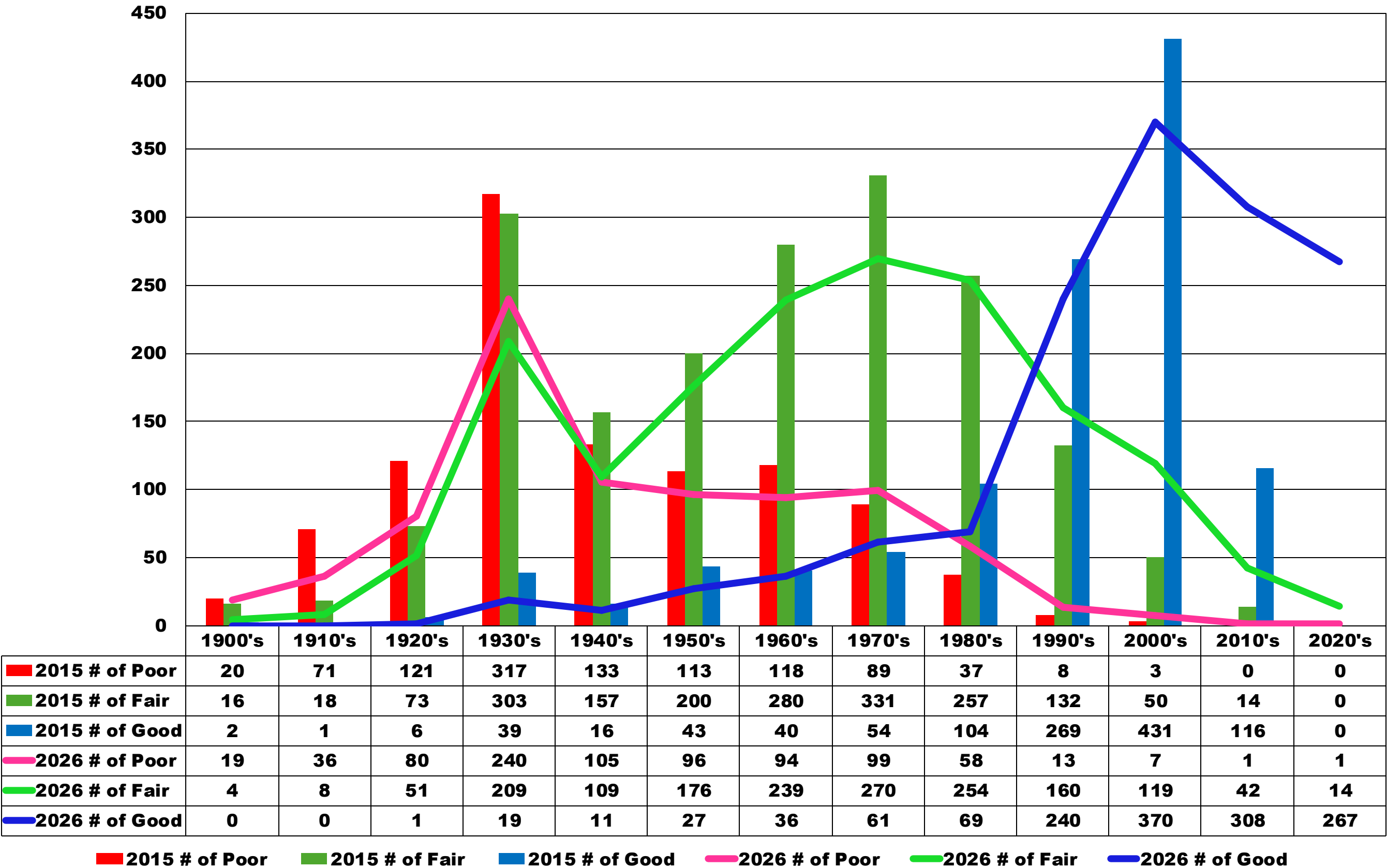


Local Government Bridges Replaced By Entity



Condition Comparison Decade by Decade

Local Structures Condition by Decade of Original Construction - 2015 vs. 2026 Data



2022 Local Bridges Replaced by Program

Str No	County	Owner Code	Location	Str Length	Str Width	Year Built	Replaced By	SD Type Material	SD Span Type
18000041	18 DAVISON	L01 County highway agency	15W & 5.9 N MITCHELL	130.0	30.7	2022	2017 BIG	8 - Conc, Prestressed	1 - GIRDER
03317270	03 BEADLE	L01 County highway agency	9.0S & 1.3W OF CAVOUR	55.0	24.8	2022	LPA	3 - Steel	1 - GIRDER
33440102	33 HUGHES	L01 County highway agency	3.0E & 9.2S HARROLD	38.8	48.0	2022	2019 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
33410024	33 HUGHES	L01 County highway agency	0.3W 1.4S HARROLD	59.7	46.0	2022	2022 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
68200016	68 YANKTON	L01 County highway agency	1.6 S CENTER POINT	40.0	33.0	2022	LPA	3 - Steel	1 - GIRDER
05220016	05 BON HOMME	L01 County highway agency	1W OF SCOTLAND	31.3	46.0	2022	2020 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
51150159	51 MOODY	L01 County highway agency	5.9S OF FLANDREAU	45.0	35.6	2022	LPA	8 - Conc, Prestressed	1 - GIRDER
68209030	68 YANKTON	L01 County highway agency	3 N & 3.1 W IRENE	40.0	33.0	2022	LPA	3 - Steel	1 - GIRDER
10191390	10 BUTTE	L01 County highway agency	9.1E 1.0S OF BELLE F	31.2	46.0	2022	2020 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
68228115	68 YANKTON	L01 County highway agency	3.5 N VOLIN	50.0	24.0	2022	LPA	3 - Steel	1 - GIRDER
63181010	63 TURNER	L01 County highway agency	8N & 2.9W CHANCELLOR	35.0	24.0	2022	LPA	3 - Steel	1 - GIRDER
56190056	56 SANBORN	L01 County highway agency	1.6W 7.4N ARTESIAN	49.9	44.2	2022	2022 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
64050092	64 UNION	L01 County highway agency	4W & 5.2S ALCESTER	28.7	44.0	2022	LPA	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
34280121	34 HUTCHINSON	L01 County highway agency	5.9N,1.0E OF MENNO	22.0	68.5	2022	LPA	3 - Steel	8 - CULVERT (BRDG LENG)
55137290	55 ROBERTS	L01 County highway agency	2S & 0.5E OF PEEVER	33.8	58.0	2022	LPA	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
02178040	02 AURORA	L01 County highway agency	1.8E 11.0N PLANKINTON	28.4	50.7	2022	2020 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
40140143	40 LAKE	L01 County highway agency	1E & 1.3S MADISON	40.8	44.3	2022	2022 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
52305300	52 PENNINGTON	L01 County highway agency	0.3W & 0.2S JOHNSON SD	60.0	32.0	2022	LPA	8 - Conc, Prestressed	1 - GIRDER
47541100	47 MEADE	L01 County highway agency	9 S 5 E MAURINE	66.9	46.7	2022	2021 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
49094180	49 MINER	L01 County highway agency	5S & 6.6W HOWARD	45.8	44.0	2022	Old Federal	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
13050212	13 CLARK	L01 County highway agency	4.2S & 3.0E OF RAYMOND	21.7	46.2	2022	2021 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
14150006	14 CLAY	L01 County highway agency	0.6S & 15E IRENE	28.7	40.0	2022	Old Federal	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
41110008	41 LAWRENCE	L01 County highway agency	2E 5.5N SPEARFISH	80.0	36.2	2022	Old Federal	8 - Conc, Prestressed	1 - GIRDER
51150232	51 MOODY	L01 County highway agency	13.2S OF FLANDREAU	45.0	36.0	2022	LPA	8 - Conc, Prestressed	1 - GIRDER
06147200	06 BROOKINGS	L01 County highway agency	4S & 2.3W BROOKINGS	212.6	32.5	2022	2018 BIG	8 - Conc, Prestressed	1 - GIRDER
15181170	15 CODINGTON	L03 City/municipal agency	0.3E OF 10TH STREET NW	116.1	54.3	2022	2020 BIG	2 - Concrete, Not PS	0 - SLAB
51120044	51 MOODY	L01 County highway agency	9N OF EGAN	245.0	32.7	2022	2019 BIG	8 - Conc, Prestressed	1 - GIRDER
20108200	20 DEUEL	L01 County highway agency	2.2 W & 2 N BRANDT	22.7	66.0	2022	2022 BIG	2 - Concrete, Not PS	8 - CULVERT (BRDG LENG)
24020020	24 FALL RIVER	L01 County highway agency	1.1W & 0.3S BURDOCK	150.0	30.5	2022	2019 BIG	8 - Conc, Prestressed	1 - GIRDER
10267330	10 BUTTE	L01 County highway agency	1 N 4.3 W NEWELL	82.0	30.5	2022	2021 Local Federal	8 - Conc, Prestressed	1 - GIRDER

FUNDING FOR LOCAL GOVERNMENT STRUCTURES

▶ LOCAL FUNDS

Vehicle Registration,
Wheel Tax, County
General Funds, etc.

- Match to Federal Funds
- Match to BIG Funds
- Structure Replacement
- Structure Rehabilitation
- Structure Maintenance

▶ BIG

State Law, Transportation
Commission

- Preliminary Engineering
- Preservation
- Structure Replacement/
Rehabilitation

▶ FEDERAL FUNDS

Federal legislation-IIJA

- Bridge Formula Funds
- Highway Infrastructure
Program (HIP) funds
- Competitive Bridge Grants

Summary BRIDGE IMPROVEMENT GRANTS (BIG)

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
PE BIG Funding Awarded	\$0.9 M	\$0.9 M	\$0.99 M	\$1.34 M	\$1.41 M	\$1.51 M	\$1.42 M	\$2.4 M	\$1.54 M	\$1.85 M	\$1.5 M	\$1.39 M
Preservation BIG Funding Awarded	\$4 M	\$3.0 M	\$2.65 M	\$3.26 M	\$3.7 M	\$7.3 M	\$3.09 M	\$4.7 M	\$7.9 M	\$1.68 M	\$6.49 M	
Replacement BIG Funding Awarded	\$4.1 M	\$5.1 M	\$5.33 M	\$10.67 M	\$10.28 M	\$10.28 M	\$19.71 M	\$34.34 M	\$11.86 M	\$14.93 M	\$11.34 M	
Toatal Amount Awarded	\$9 M	\$9 M	\$8.97 M	\$15.27 M	\$15.39 M	\$19.09 M	\$24.22 M	\$41.44 M	\$21.3 M	\$18.46 M	\$19.33 M	

Since 2015, 552 structures have had PE completed, been replaced, rehabilitated, or had preservation work completed in the BIG Program.

114 more structures are programmed to have PE completed, be replaced or rehabilitated, or preservation work done in the next 3 years using BIG Funds.

Summary LOCAL FEDERAL BRIDGE PROGRM

	2016	2017	2018	2019*	2020	2021	2022	2023**	2024	2025	2026	2027***
Funding Limit	\$8 M	\$8 M	\$8 M	\$2.2 M	\$25.9 M	\$12.25 M	\$24 M	\$56.6 M	\$35.9 M	\$0 M	\$0 M	\$0 M
Bridges Programmed	0	0	0	4	57	46	13	25	0	0	0	12
Bridges Removed	0	0	0	0	0	0	7	4	2	12	0	0
Bridges Rehabilitated	0	0	2	0	0	0	0	0	0	0	0	0
Bridges Replaced	18	20	11	9	14	6	5	10	31	31	2	0

Since 2015, 140 structures have been replaced and 25 permanently removed using the federal bridge program and the special appropriations SD had received for poor condition structures

29 more structures are programmed to be replaced, 2 permanently removed, & 12 complete the design in the next 3 years.

Questions?

