



# 2017 – 2020 Statewide Transportation Improvement Program (STIP)

Mike Behm  
P/E Division Director  
South Dakota DOT

# Delivering the Payload



# South Dakota's Transportation System

- **Crane** – Represents our funding and construction plan
- **Rope/cable** – Represents our current transportation system
- **Payload** – Represents the freight and people moved throughout the state

# Crane



- Federal Funds
  - Highway Gas Tax – 18.4 cents/gallon
- State Funds
  - State Highway Gas Tax – 28 cents/gallon
  - Excise tax - 4 % on sale of vehicle sales

# Federal Funds

- Eligible Usage
  - Construction & Planning activities only
  - Not Allowed for Maintenance activities
- Construction program (STIP)
  - Approximately 75% federal funds

# Federal Funds

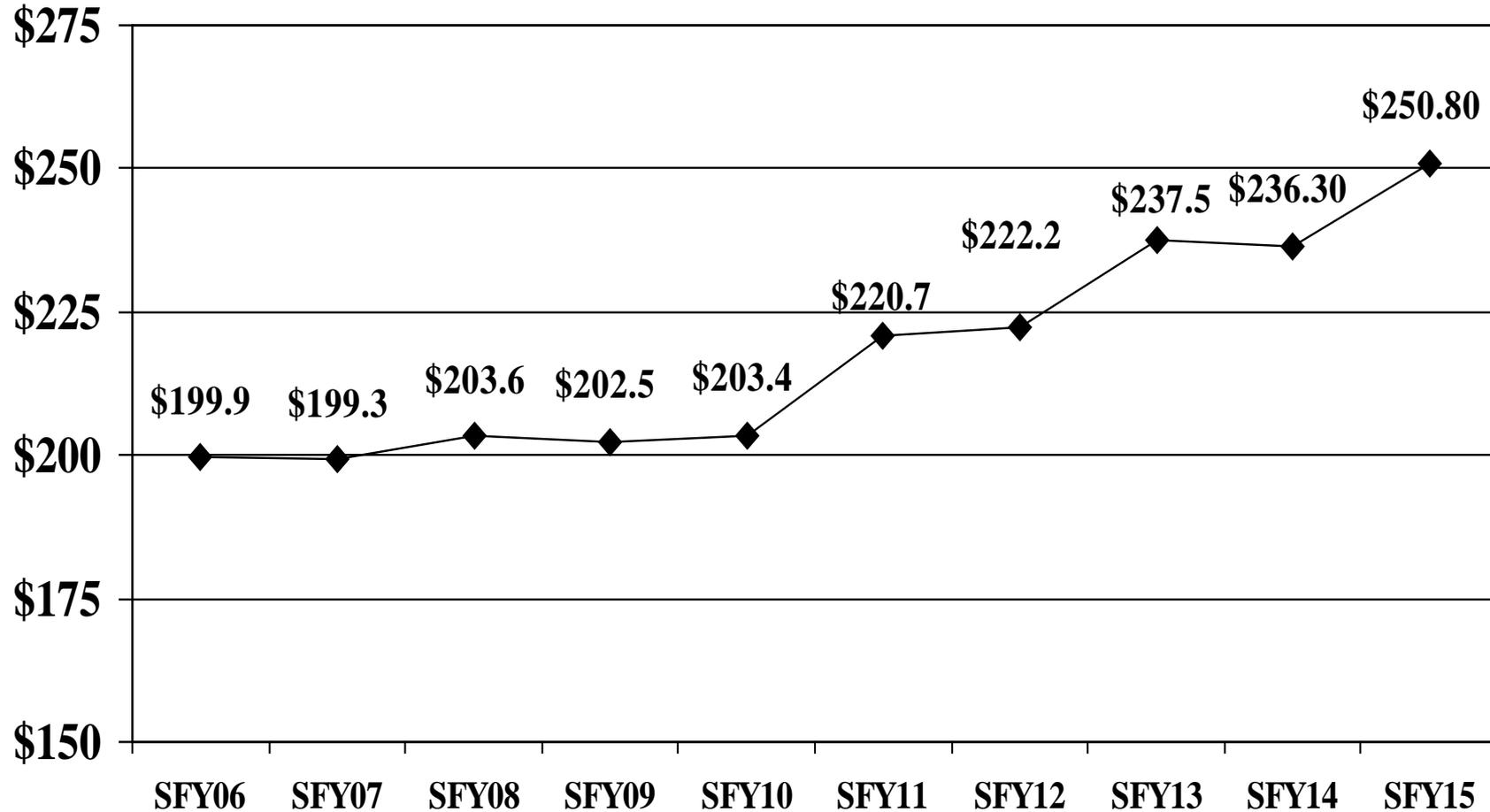
## FAST ACT

- Signed by the President December 2015
- Expires September 30th, 2020
- Provides for 3% annual increase
  - Funded mainly through federal fuel tax and general funds

# Total State Highway Fund Revenues

SFY 2006 – SFY 2015 COLLECTIONS

MILLIONS OF DOLLARS



# Changes

## Senate Bill 1

- Additional Funding
  - State
  - Local
- Bridge Improvement Grant
  - Highway Transportation Plan
  - Wheel Tax



# Bridge Improvement Grant

- Available for Eligible Local Government Bridges
  - Preliminary Engineering
  - Preservation Treatments
  - Replacement/Major Rehabilitation
- \$9 M / annually thru 2018
- Applications for 2017 funding are due in early January



# Moving the Payload



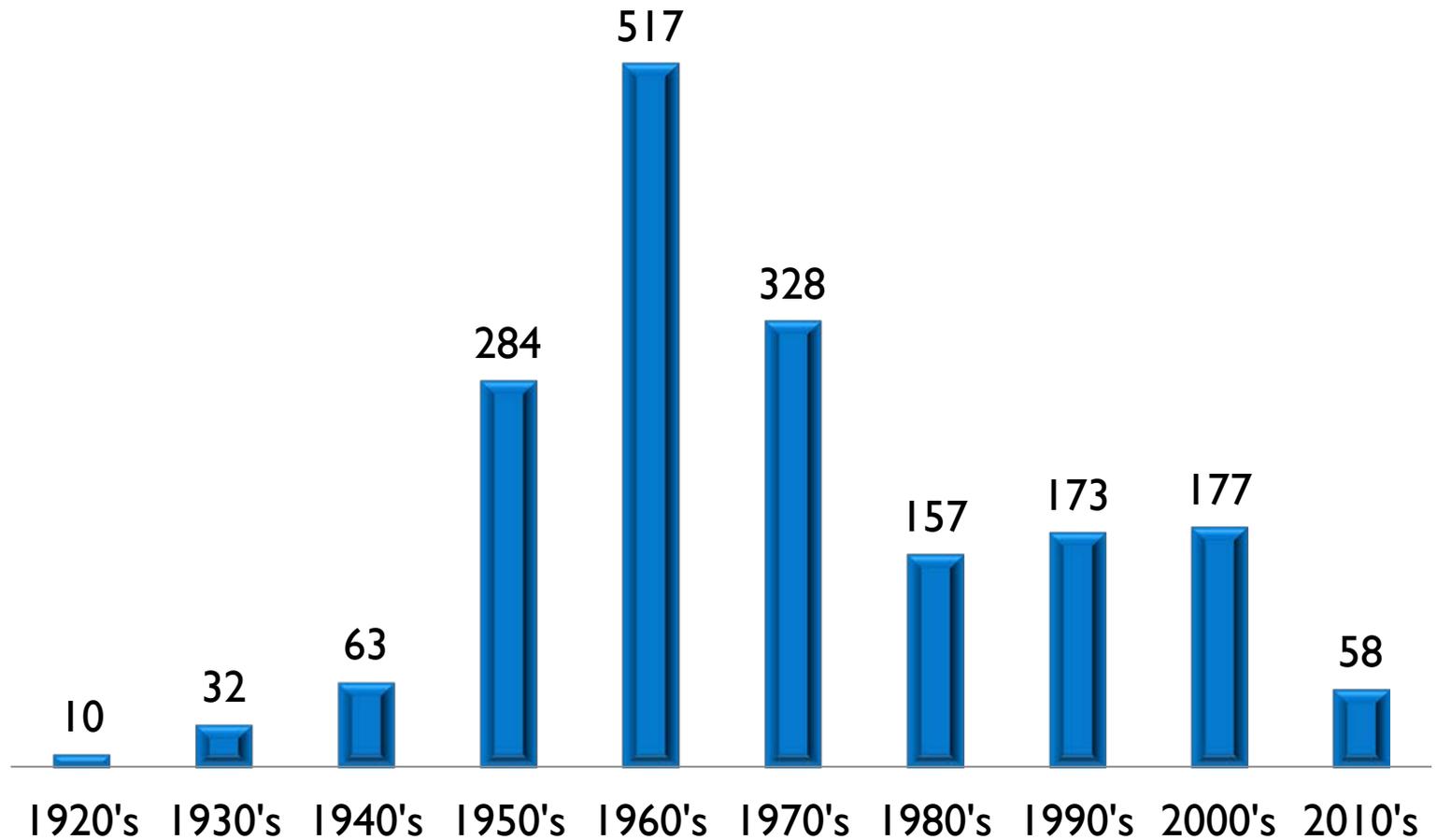
Mark Leiferman  
Project Development  
Program Manager  
South Dakota DOT

# Structures

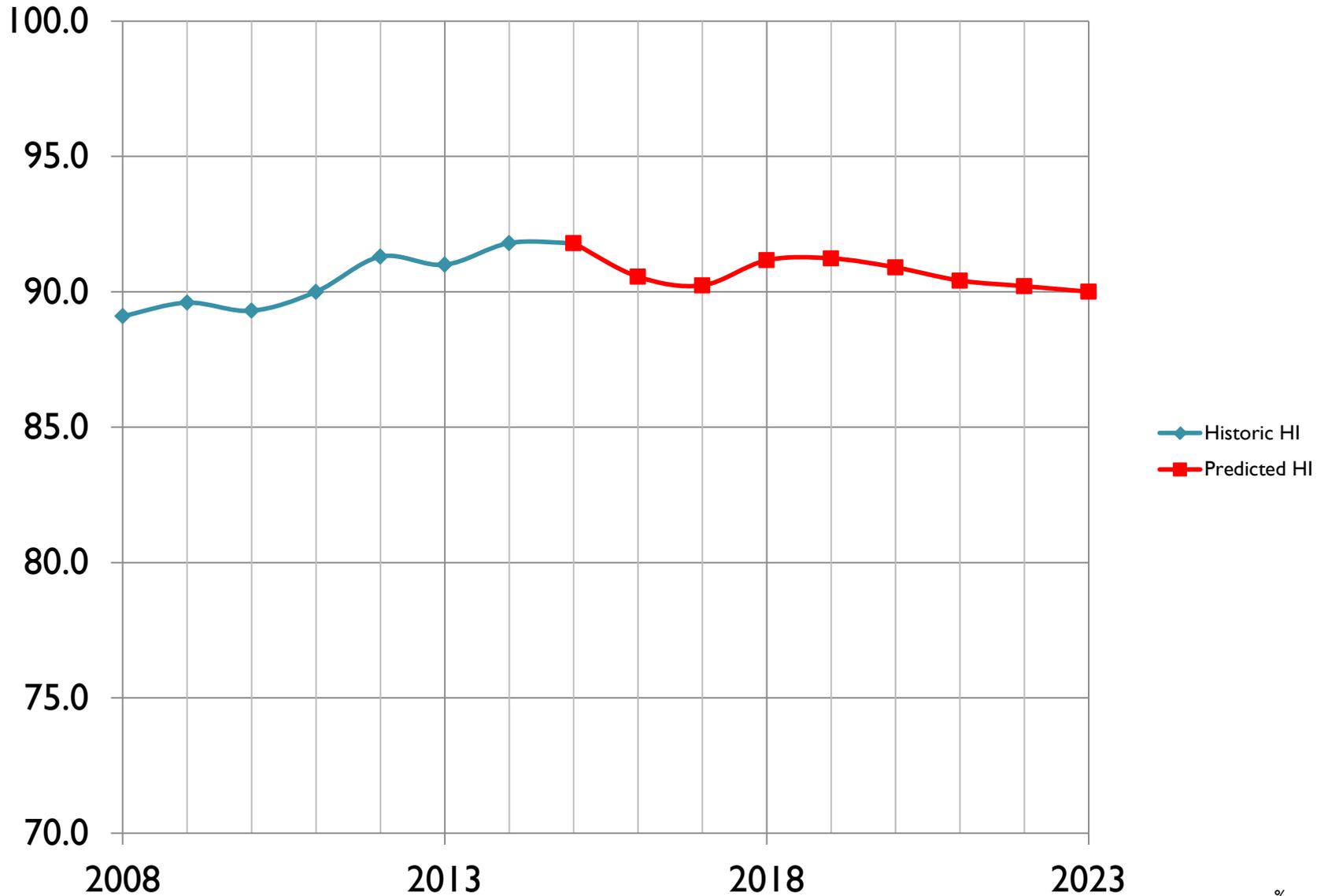


# Structure Age

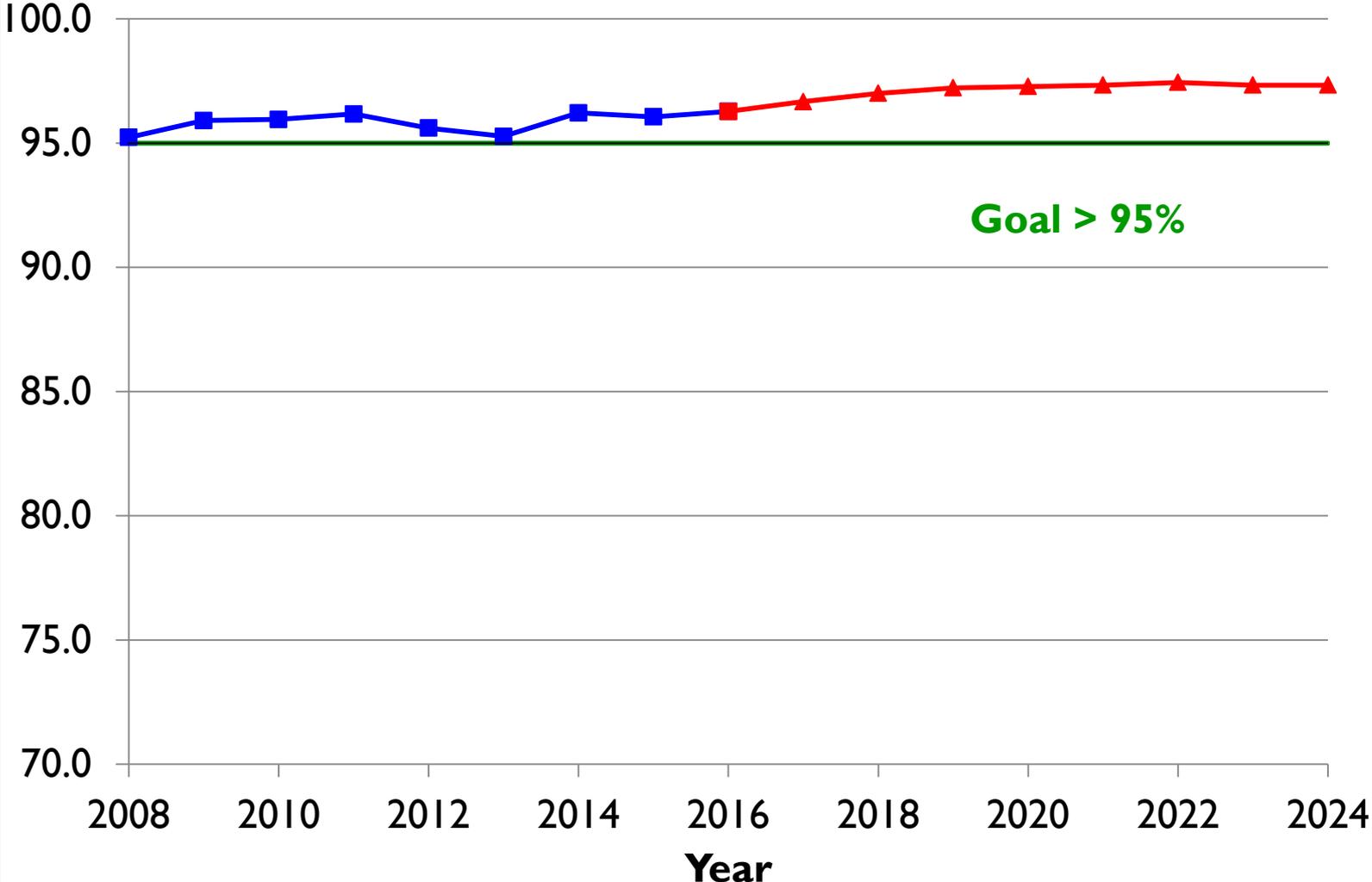
**Structures Built in South Dakota by Decade**



# Structure Health Index



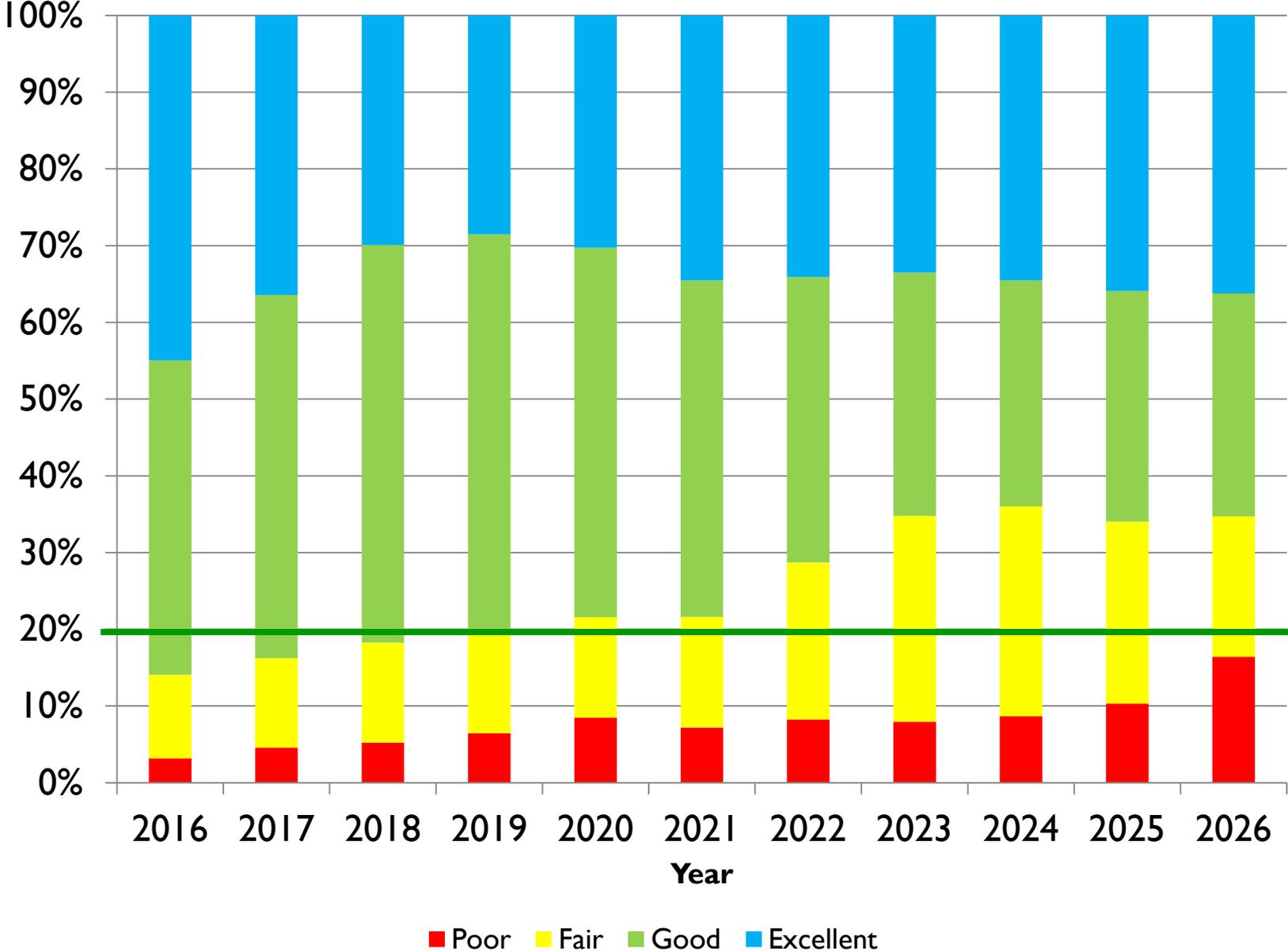
# Structures in Good or Fair Condition



# Pavements



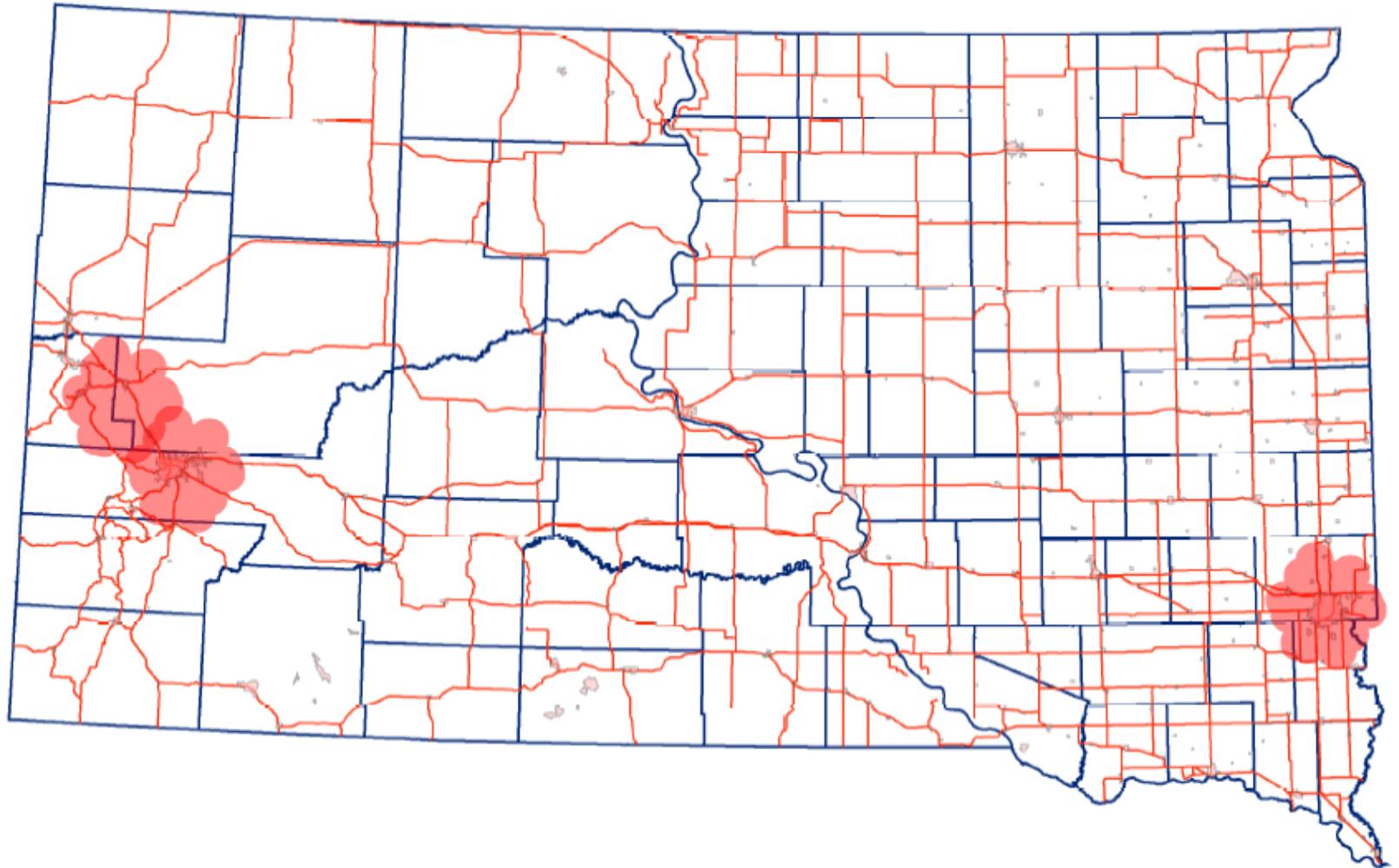
# 2016 Condition Distribution - Current Budget



# Capacity Needs



# Capacity Needs



# CRASHES

aren't

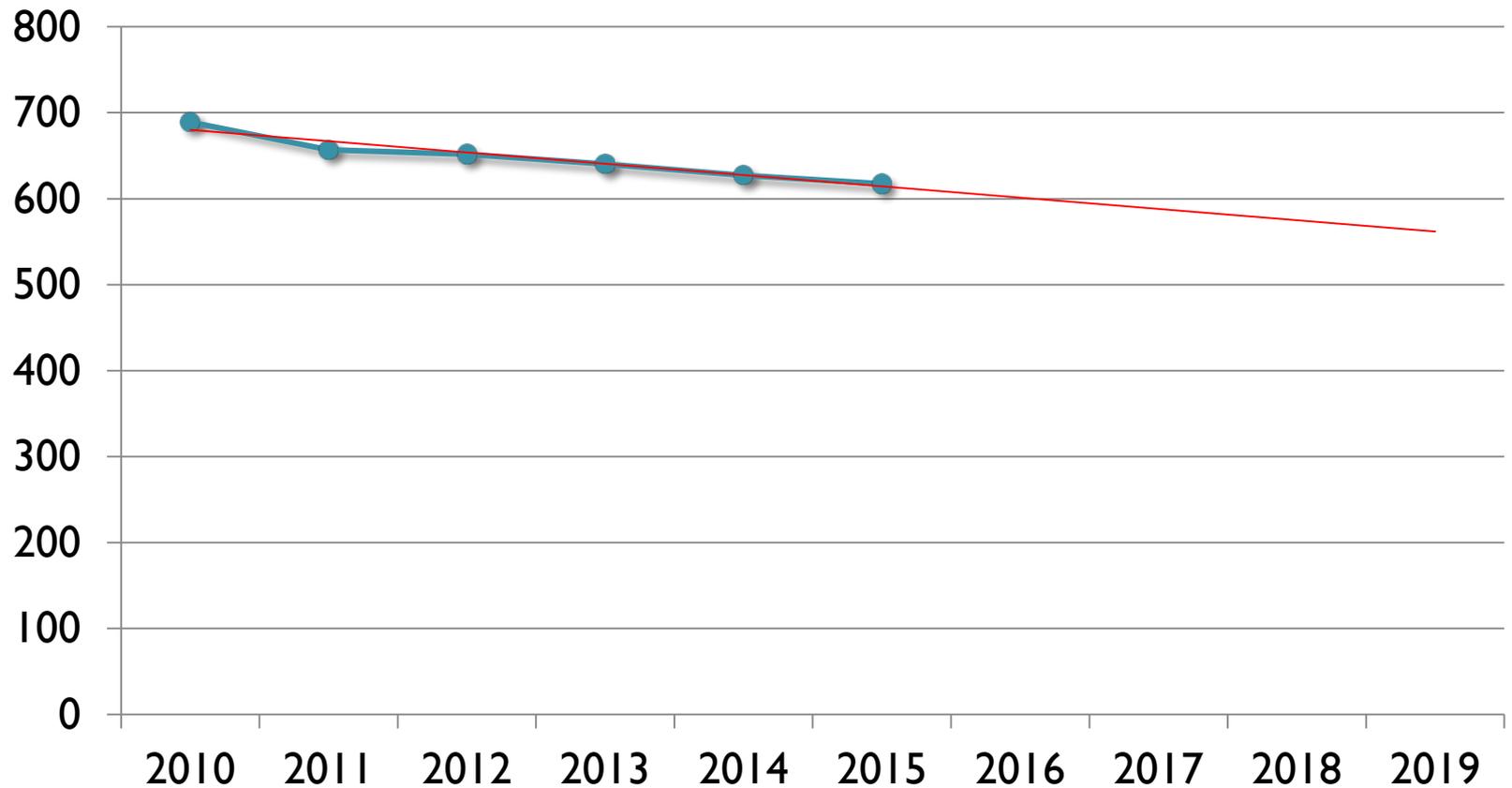
~~Accidents~~

# There is Room to Live



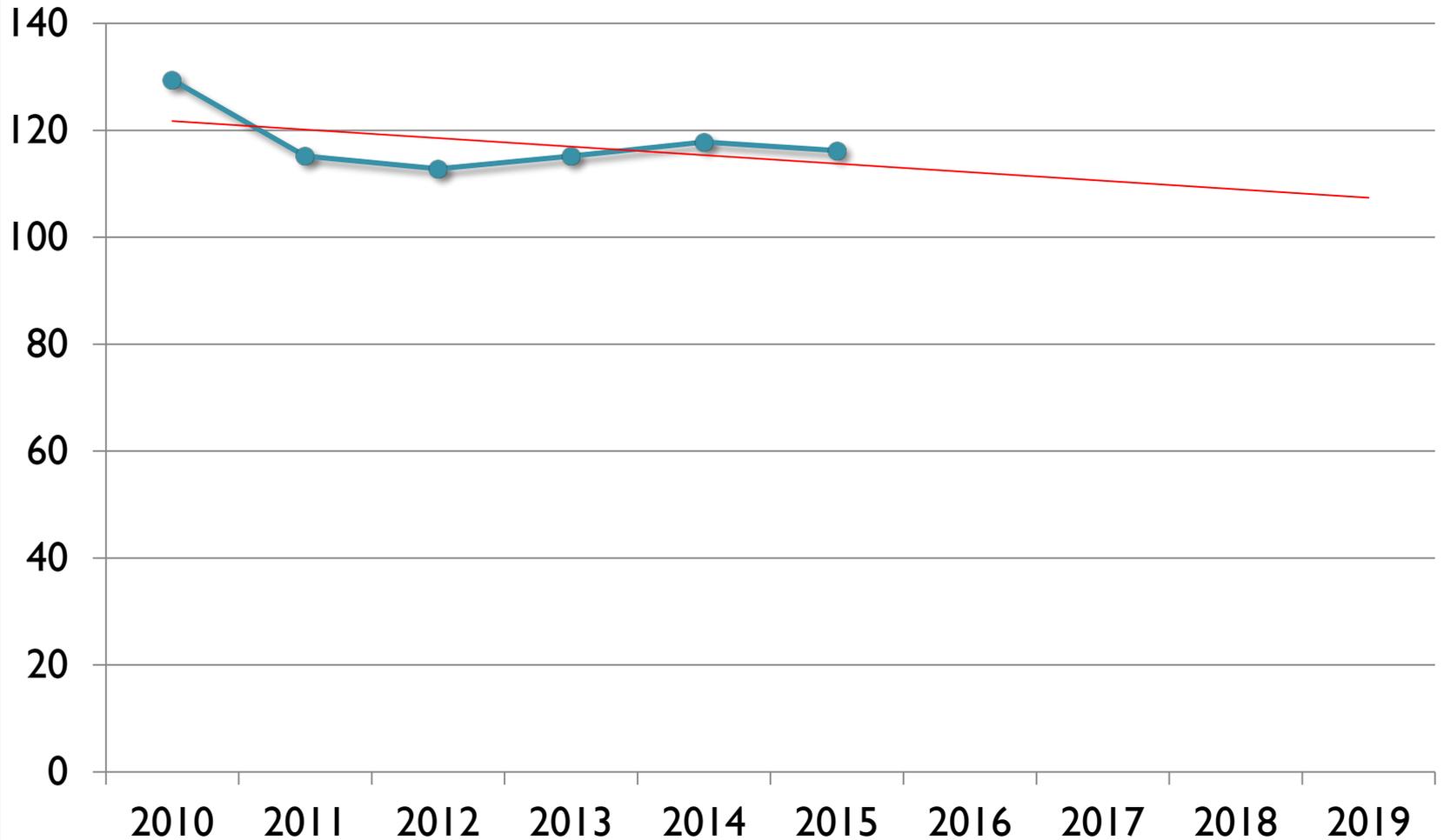
# Serious Injury Crashes

## Serious Injury Crashes Five Year Rolling Average



# Fatal Crashes

## Fatal Crashes Five Year Rolling Average



# Region Projects

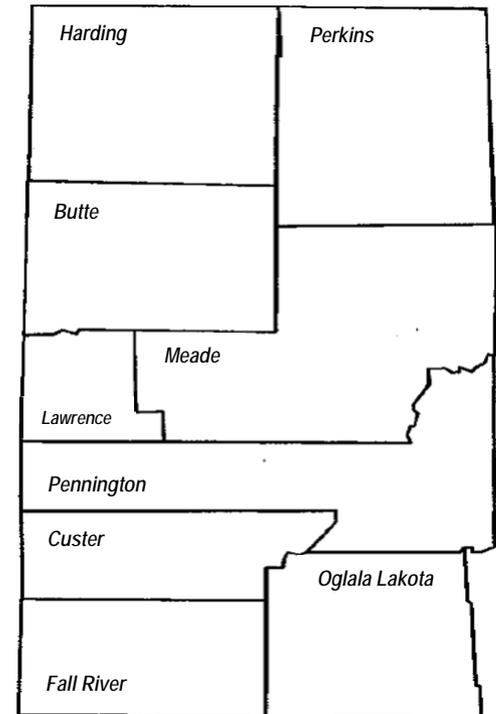
## 2017 – 2020 Statewide Transportation Improvement Program (STIP)

Joel Jundt  
Deputy Secretary  
South Dakota DOT

Todd Seaman  
Rapid City Region Engineer  
South Dakota DOT

# 2017 – 2020 Transportation Improvement Program (Tentative)

Todd Seaman  
Rapid City Region Engineer

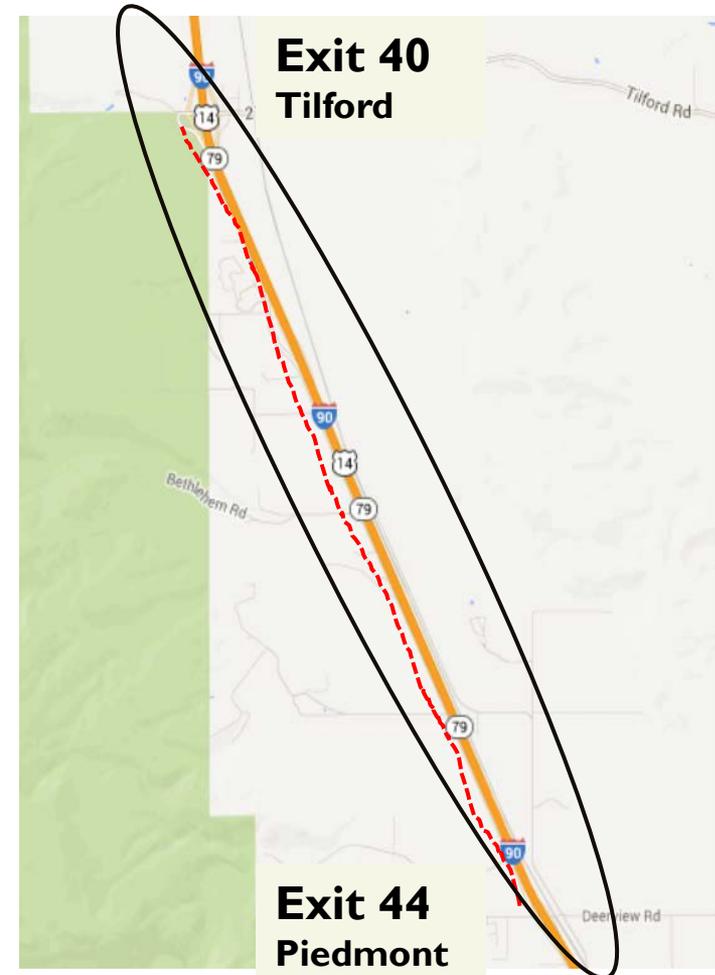


# 2017 - Item #22; I-90

## I-90 eastbound and westbound lanes between Exits 40 & 44 and Exit 44 Interchange

- Reconstruct 8 miles of Interstate
- Concrete Pavement
- Reconstruct interchange at Exit 44
- Construct new bridges at Elk Creek and Little Elk Creek

\$35.0 million

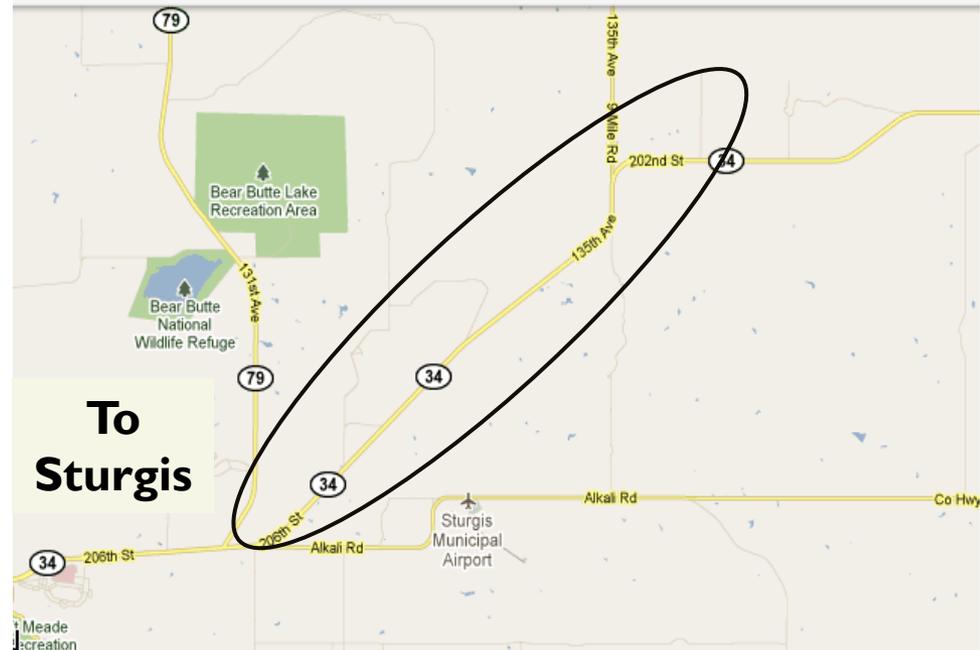


# 2017 - Item #26; SD34 - East of Sturgis From SD79 east 8 miles

## Safety Improvement

- Shoulder widening
- Inslope flattening
- Asphalt surfacing

**\$6.3 million**

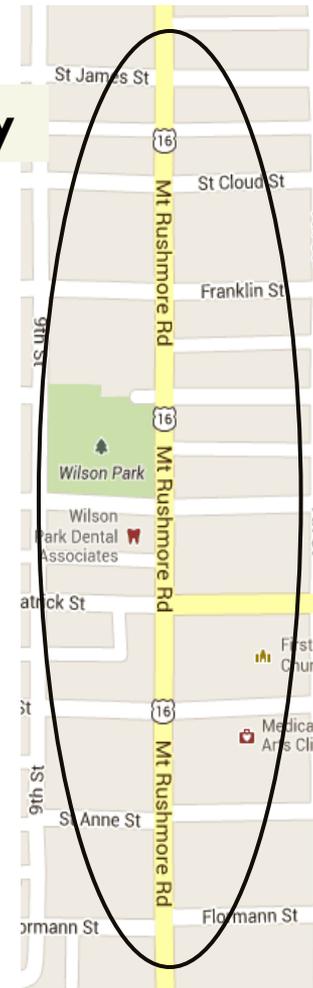


# 2017 - Item #3 I; US16 - Rapid City Mt Rushmore Rd from Flormann Street to James Street

- Grading
- Concrete surfacing
- Curb & Gutter
- Sidewalk
- Storm Sewer
- Traffic Signals and Lighting

\$7.0 million

Rapid City



# 2017- Item #34; SD73 & US12

## SD73 from the Grand River to Jct of US12 near Lemmon; US12 from ND State Line to Lemmon

### Rural areas on SD73 & US12

- Shoulder Widening
- Replace box culvert

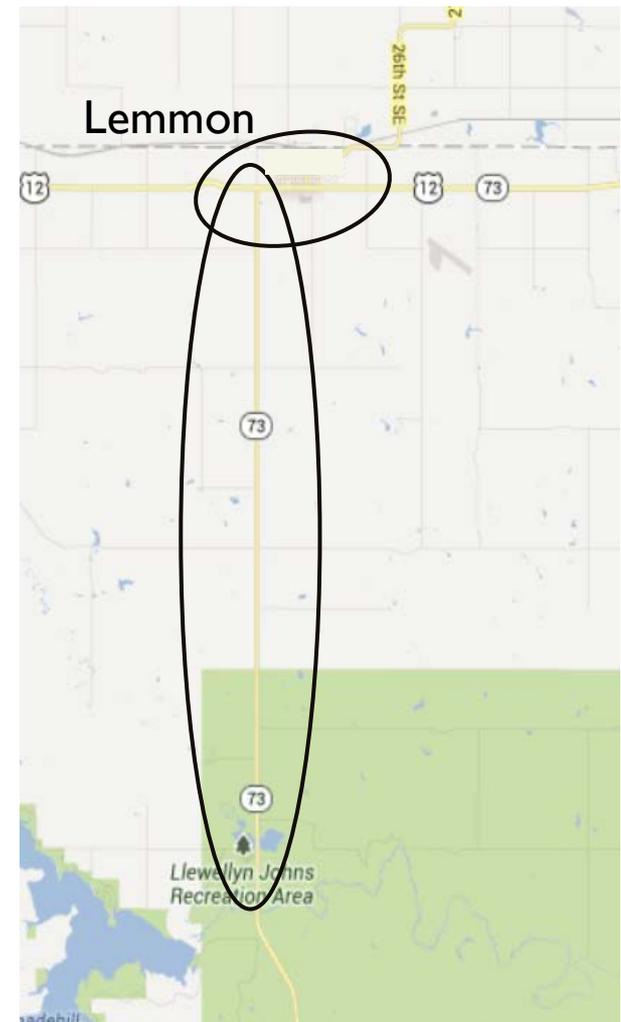
### In Lemmon

- Roadway Lighting

### Intersection of US12 & SD73

- Roadway Lighting
- Widening for turn lane

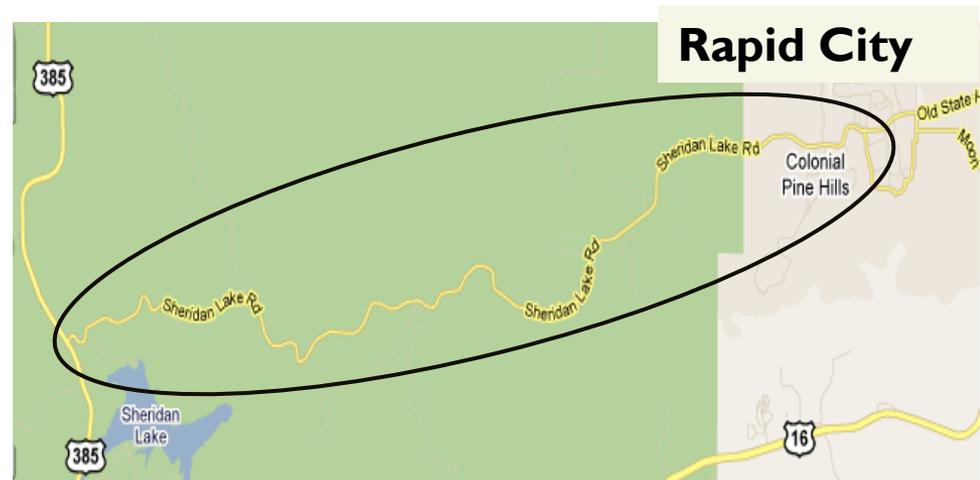
\$14.2 million



# 2018- Item #89; Sheridan Lake Rd - From US385 to Alberta Rd

- Grading
- Asphalt Concrete Surfacing
- Curb & Gutter

\$8.5 million



# 2018- Item #94; SD231- W Chicago Street in Rapid City - From Sheffer Street to Sturgis Rd

- Grading
- Concrete surfacing
- Curb & gutter
- Sidewalk
- Storm sewer
- Traffic Signals and Lighting

\$12.1 million



# 2018- Item #98; SD73 & US12

SD73 from the Grand River to Jct of US12 near Lemmon; US12 from ND State Line to Perkins/Corson County Line

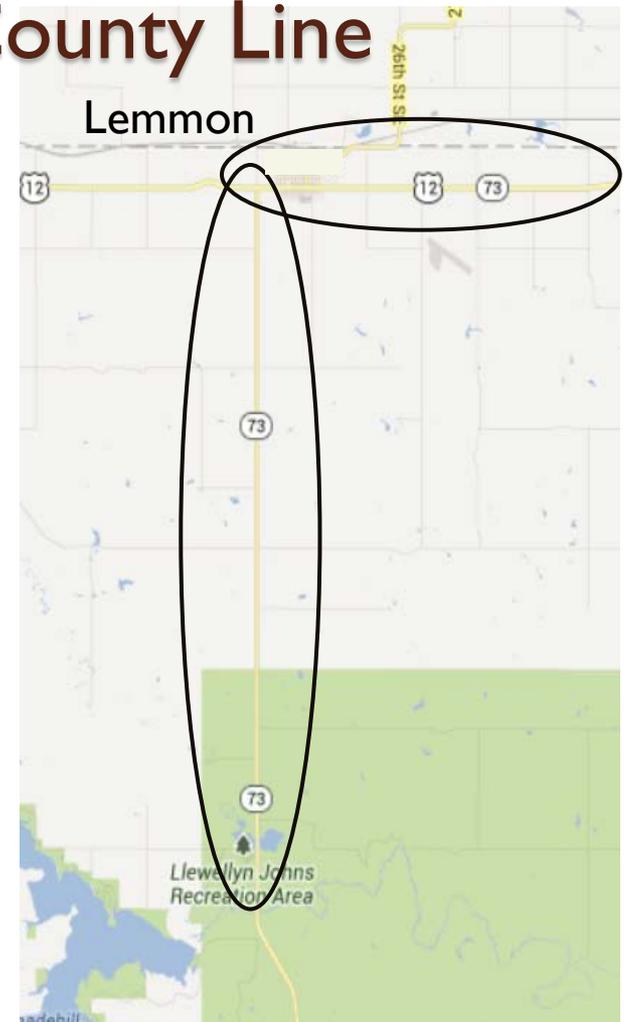
## SD73

- Full Depth Reclamation
- Resurfacing

## US12

- Mill
- AC Resurfacing

\$13.1 million

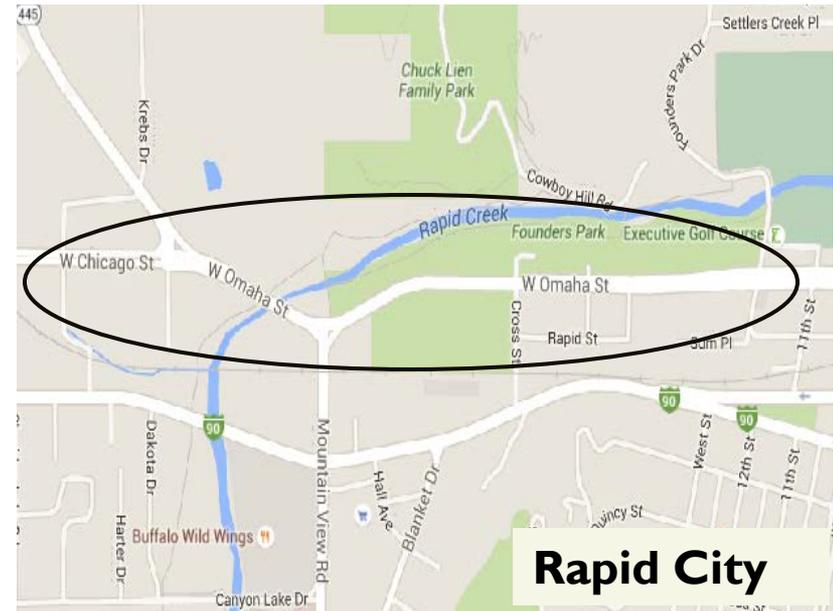


# 2019 - Item #140; SD231 & SD44 in Rapid City

SD231 from Sheffer St to Mt View Rd; SD44 from Mt.View Rd to divided lanes near 12<sup>th</sup> Street

- Urban Grading
- Storm Sewer
- Curb & Gutter
- Sidewalk, Traffic Signals
- PCC Surfacing
- Structure Repair & Widening over Rapid Creek
- Lighting

\$13.4 million

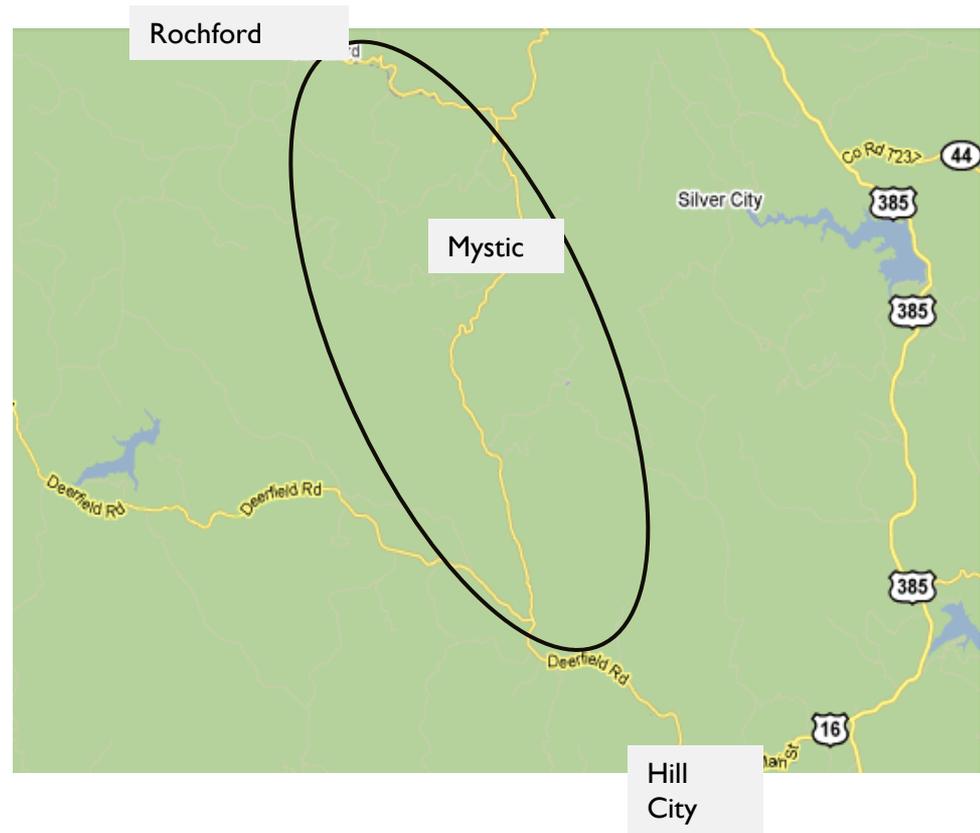


# 2019- Item #141; South Rochford Rd From Rochford southwest to Deerfield Rd

Reconstruction of  
existing 2 lane roadway:

- Grading
- Drainage Structures
- Asphalt Surfacing

**\$10.4 million**



# 2020 - Item #171; US18 & US385 From Summerville Street to US18B

- Grading
- Concrete surfacing
- Curb & gutter
- Sidewalk
- Storm sewer
- Traffic Signals and Lighting

\$20.5 million



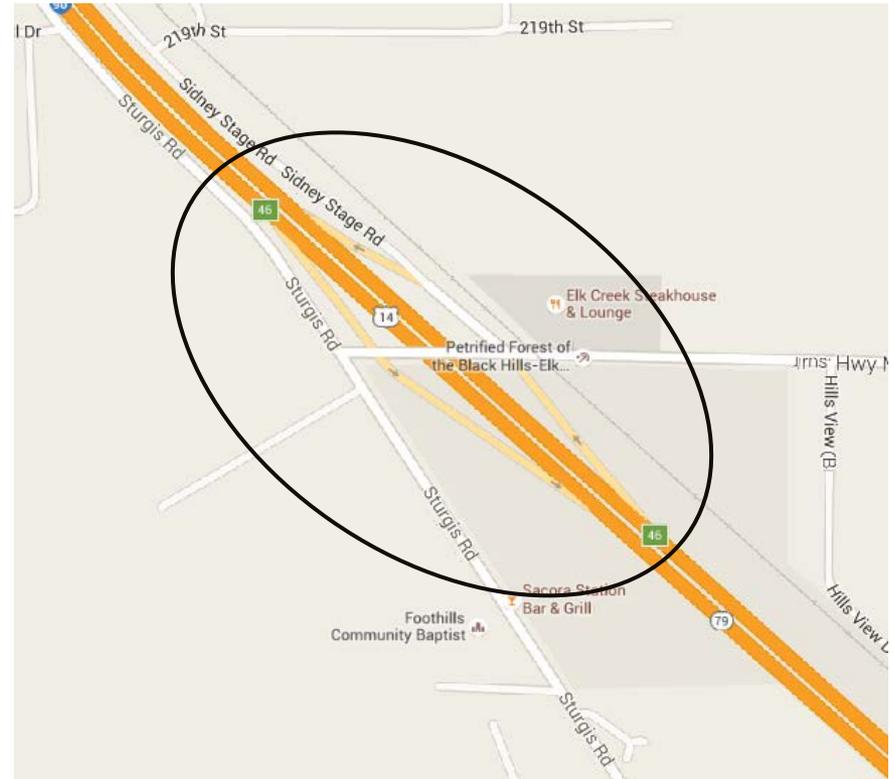
# 2020 - Item #176; 190

## Exit 46 Interchange

### Reconstruct Interchange

- Bridge replacement
- Sidewalk
- Surfacing
- Roadway lighting

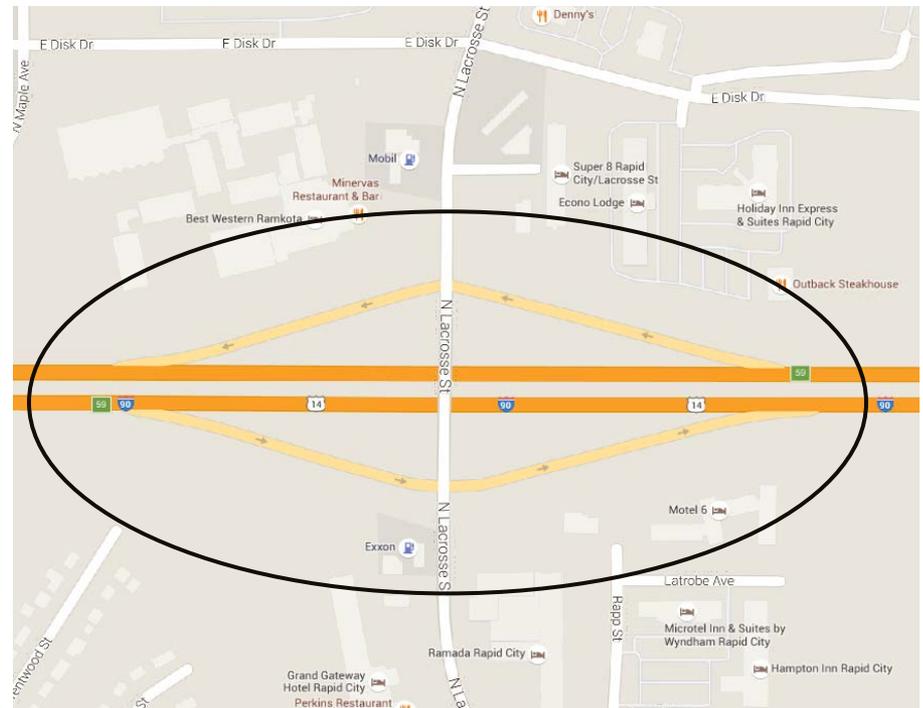
**\$9.9 million**



# 2020 - Item #177; I90 Exit 59 (LaCrosse Street) In Rapid City

- Reconstruct Interchange
- PCC Surfacing
- Aux Lane Addition
- Structure Widening
- Deck Overlay
- Approach Slabs

**\$19.8 million**



# QUESTIONS

*Will be taken at the  
conclusion of the  
presentation*



# Payload



# Payload

- 2014 – \$29.9 Billion of Domestic Outbound shipments
  - \$16.3 Billion was trucked
- 2015 – 9.3 Billion Vehicle Miles traveled throughout the state
  - 6.3 Billion Vehicle Miles traveled on State Highways

# Customer Satisfaction Survey

- Maintenance
  - Maintaining Surfaces
  - Winter Operations
  - Maintaining Bridges
- Design
  - Smoothness of rural 2 lane highways
  - Adequacy of shoulders - rural 2 lane highway
  - Condition of Bridges
  - Smoothness of interstate / 4 lane highways

# Customer Satisfaction Survey

- Information

- Provide traveler information (511, Safe travel, camera images)
- Accurate Information
- Easy / accessible information



- Top 5 Priorities

- Repairing/maintaining existing highways
- Adding turning/passing lanes to highways
- Adding shoulders to highways
- Expanding transportation services for seniors
- Relieving traffic congestions in the cities

# Delivering the Payload

## FY 2017 Program by Facility

Excluding Planning Funds

