

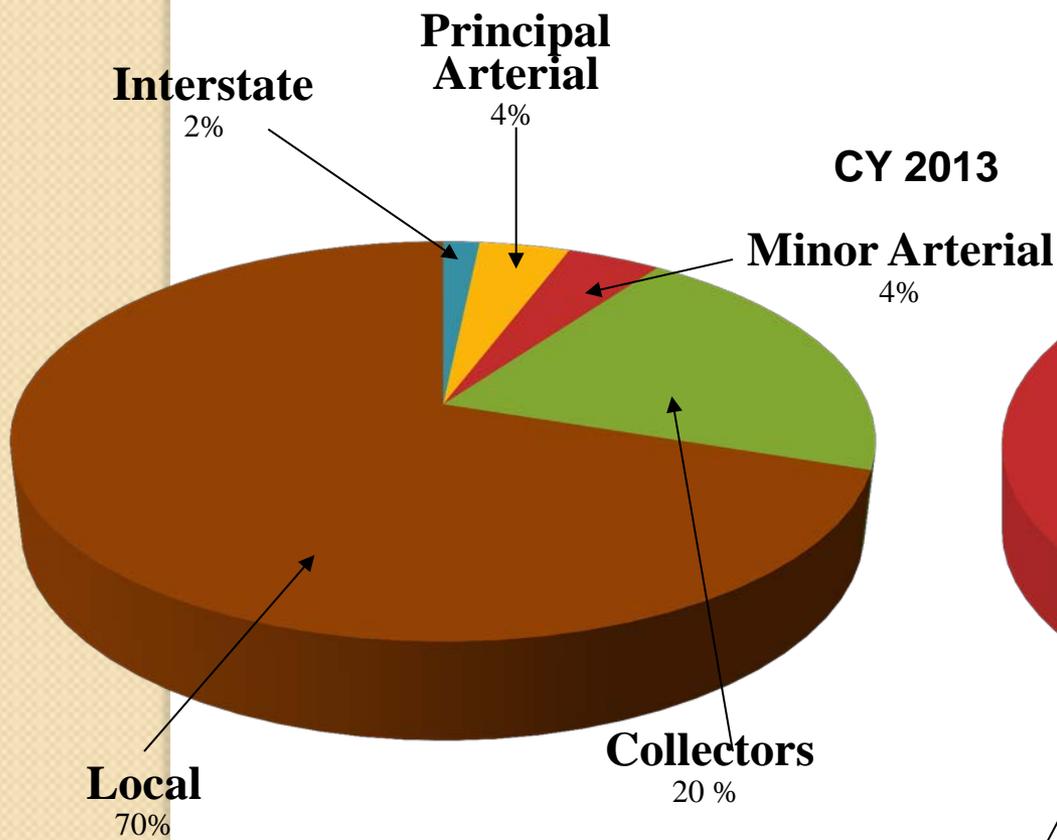


# **Governor's Ag Summit**

## **June 2014**

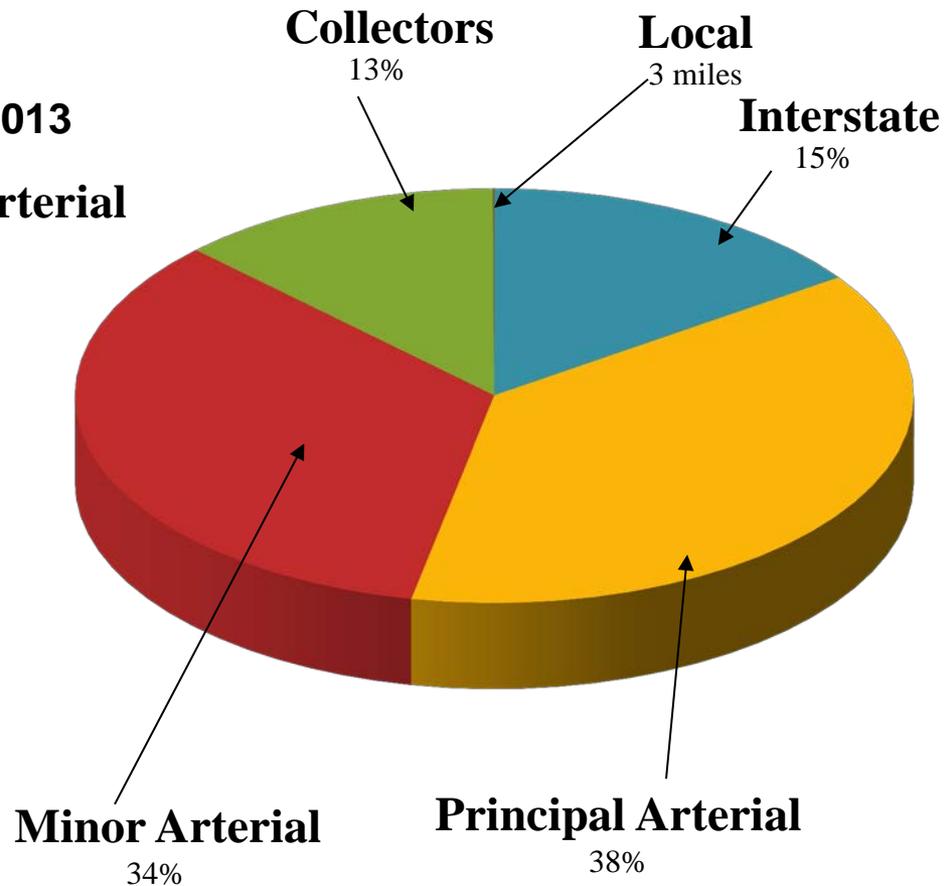
**Presented by: Senator Mike Vehle**

# Functional Classification Mileage



**All South Dakota Jurisdictions**

Approximately  
83,650 Miles



**State Highways**

Approximately  
8,850 Miles

**83,650 miles is equivalent to 3 1/3  
times around the world**



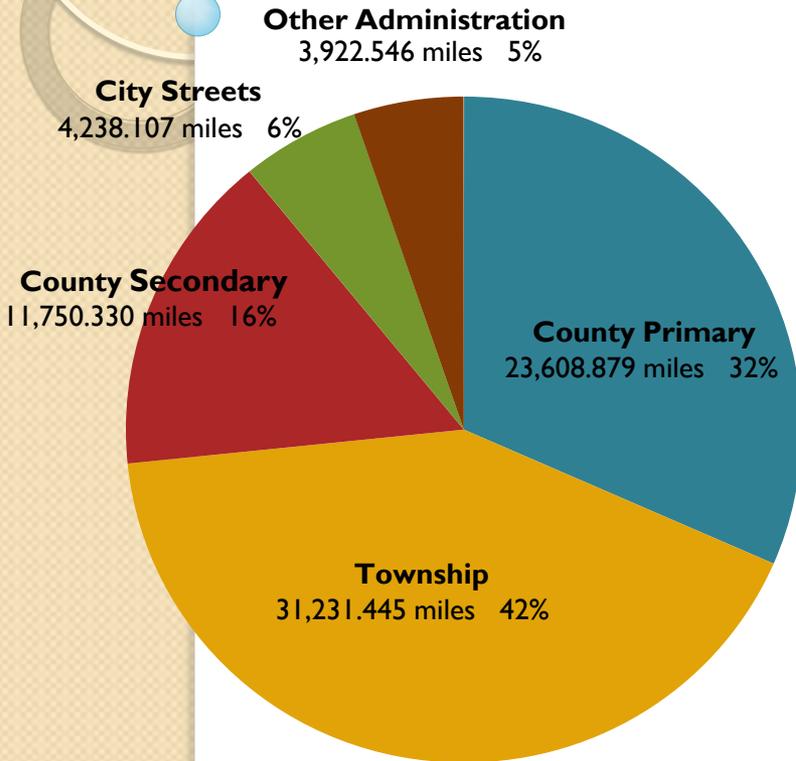
**State Roads 8,850 miles = 3.6 trips  
between Los Angeles to New York**



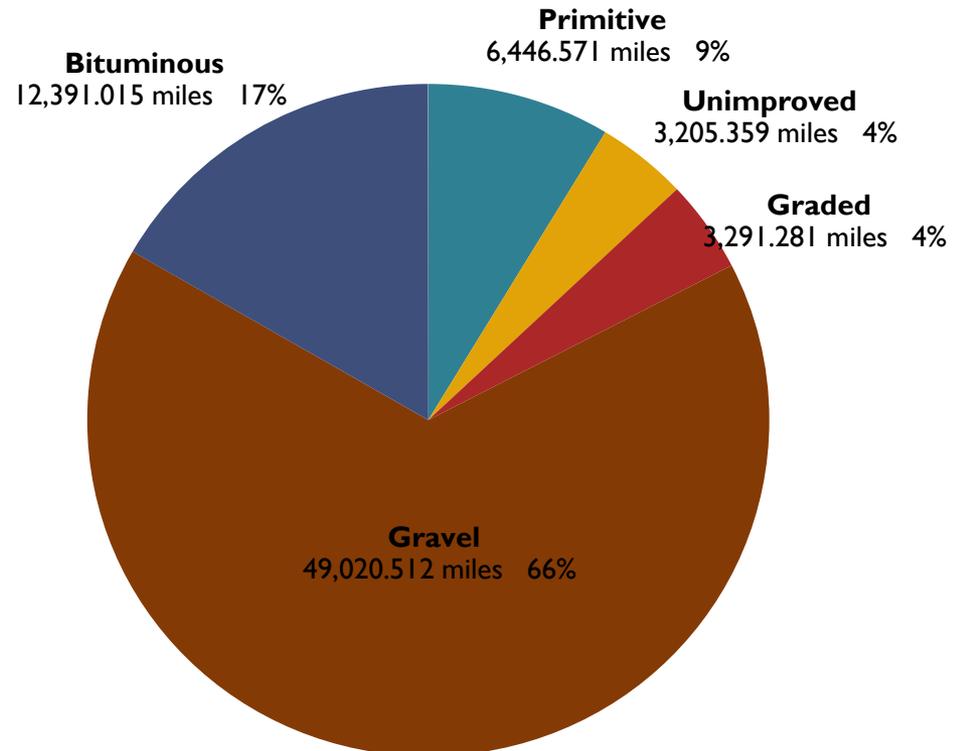
# Summary of Local Road and Street Mileage -2013

By Administrative System and Surface Type

In Centerline Miles



Administrative System



Surface Type

\* Includes 0.798 miles of Brick Surface

**Total Mileage = 74,751.307**

# County Paved Roads

## Current 2014 Conditions

- Overall Condition of Paved Roads 4.86 of 10
- Percent in Failing Condition 20%
- Percent in Poor Condition 19%
- Percent in Fair Condition 32%
- Percent in Good Condition 21%
- Percent in Excellent Condition 9%

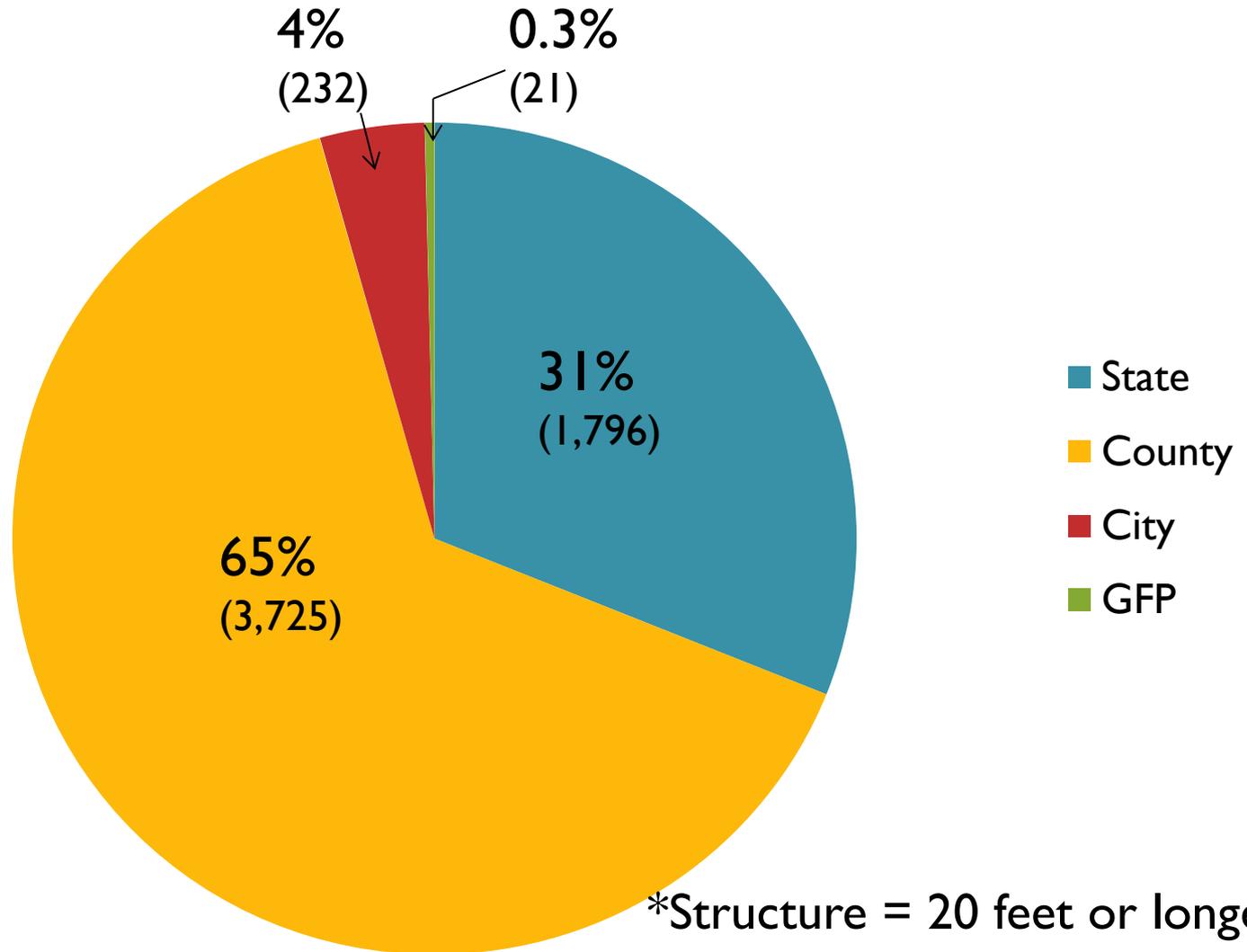
# County Gravel Roads Current 2014 Conditions

- Overall Condition of Gravel Roads 6.2 of 10
- Percent in Failing Condition 9%
- Percent in Poor Condition 17%
- Percent in Fair Condition 30%
- Percent in Good Condition 36%
- Percent in Excellent Condition 10%

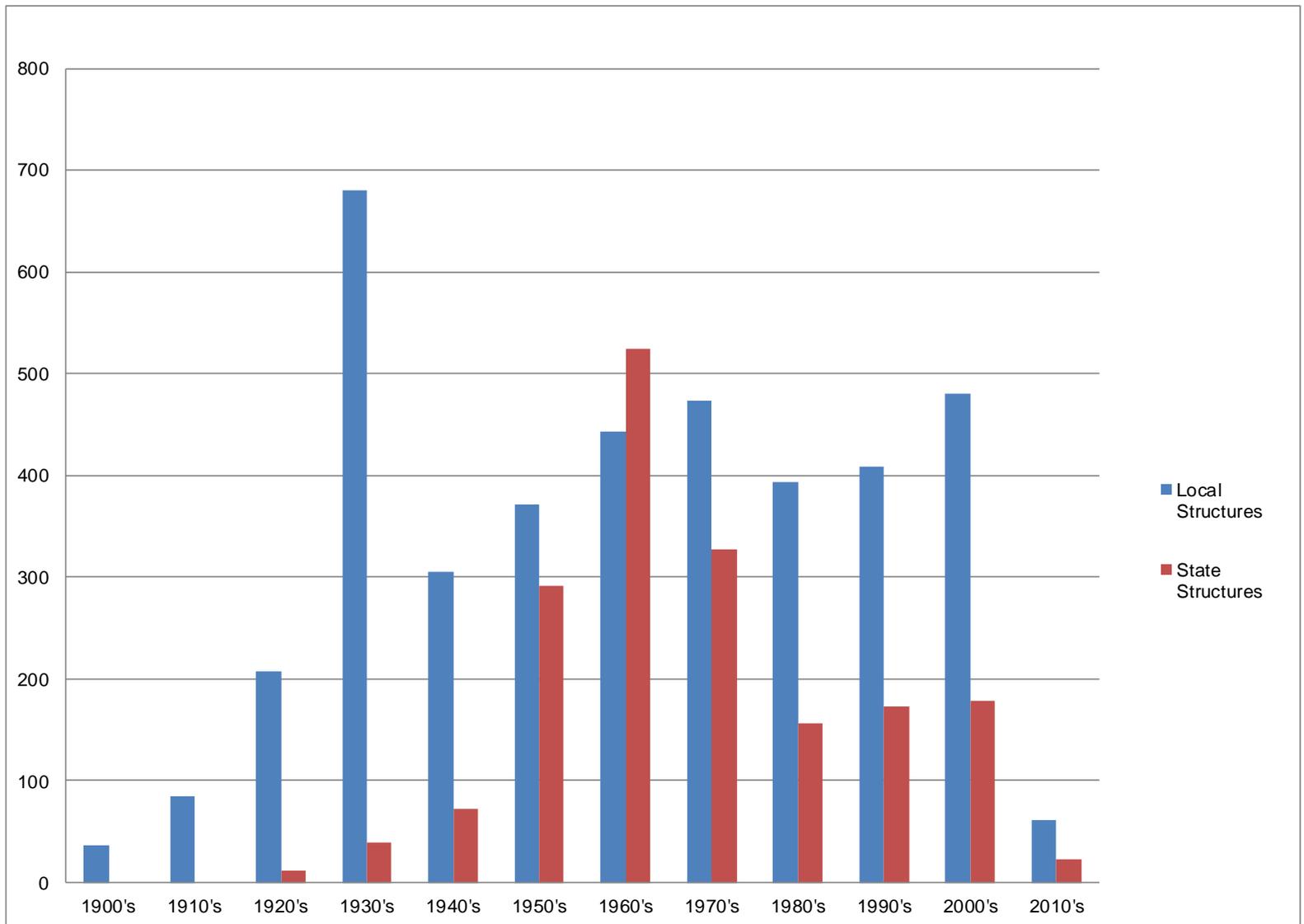


MAY 12 2010

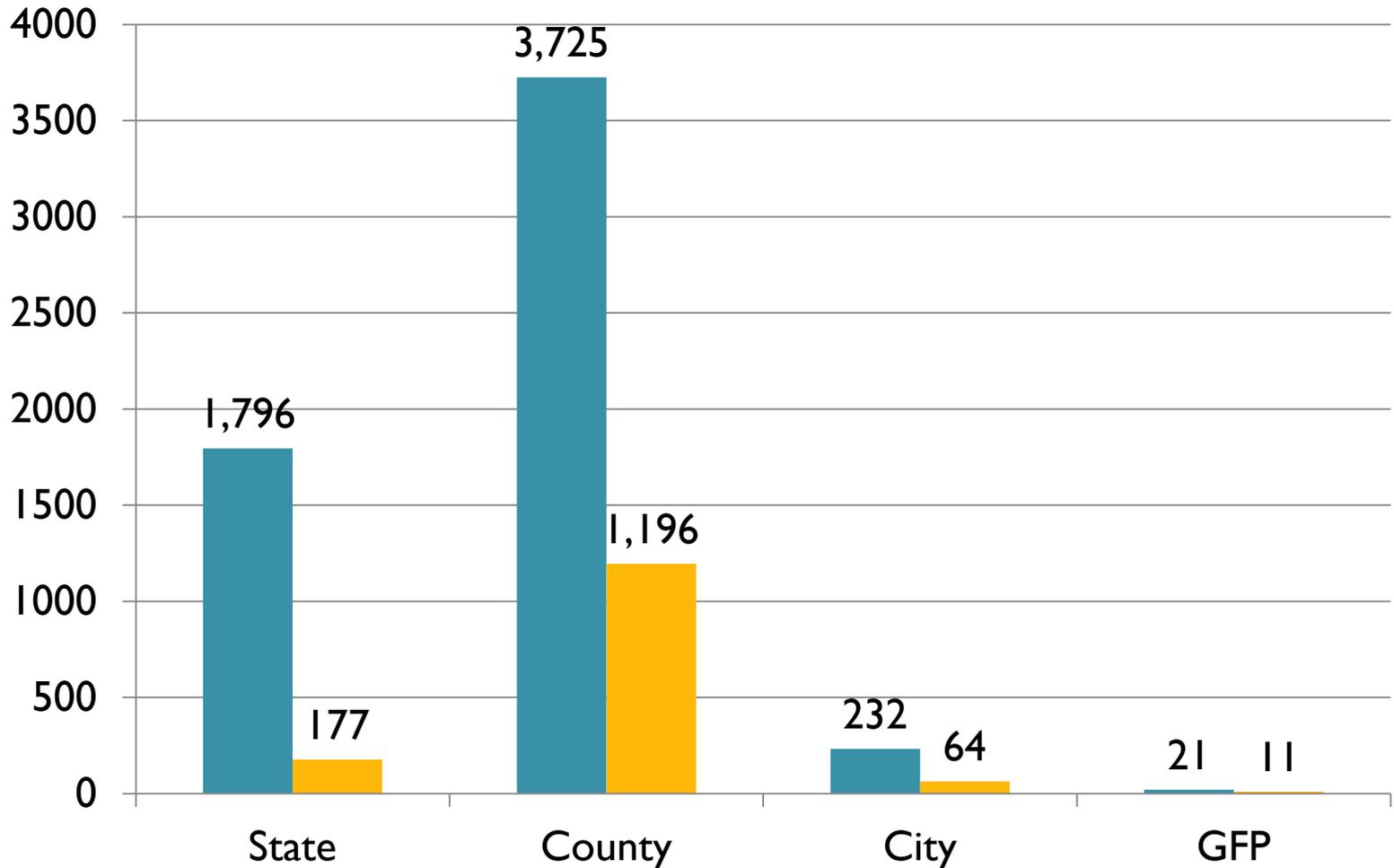
# Total Structures in South Dakota (5,774)



# Structures Built by Decade



# Total Number of Structures vs. Number Structurally Deficient or Functionally Obsolete (1,448) = 25%



# Structurally Deficient

- Structurally Deficient is an engineering term used in the federally mandated National Bridge Inspection Standards (NBIS) program.
- The term is an indicator for when certain elements of a bridge are in need of repair or replacement.
- The bridge is not unsafe, but the department would be consider repairing the deficiency.
- A structurally deficient classification does not necessarily mean a bridge is unsafe.
- 4.7% of state structures are structurally deficient.
- 28% of county structures are structurally deficient

# Functionally Obsolete

- Functional obsolete: refers to a substandard feature within the structure relative to current design standards.

## Examples:

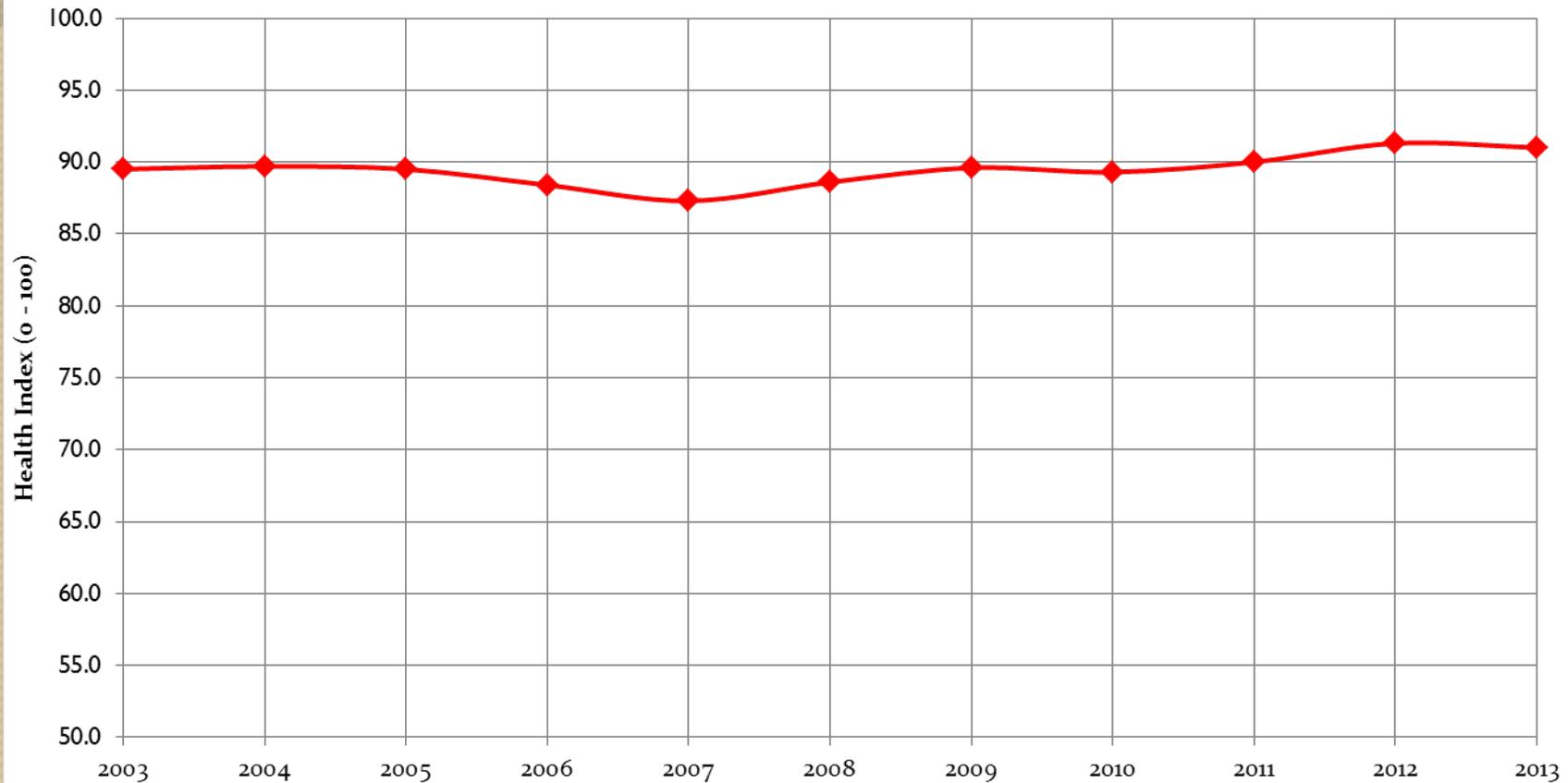
- narrow roadway width
  - inadequate water capacity for current conditions,
  - inadequate vertical and horizontal clearances.
- Functional obsolescence is not an indicator that a bridge is structurally unsafe.
  - 5.1% of state structures are functionally obsolete
  - 3.0% of county structures are functionally obsolete



05/08/2009

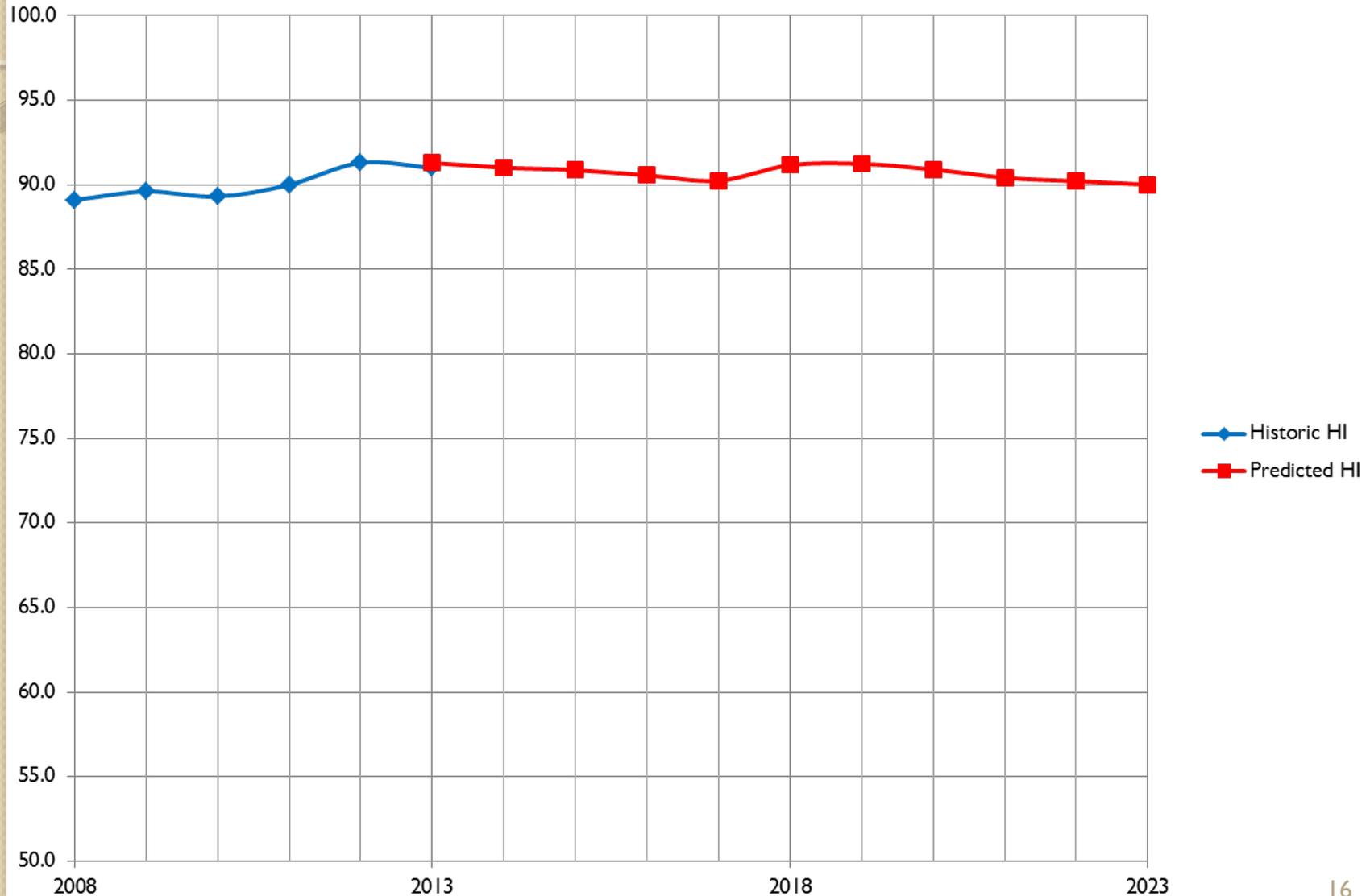
# State Structure Health Index

## Health Index

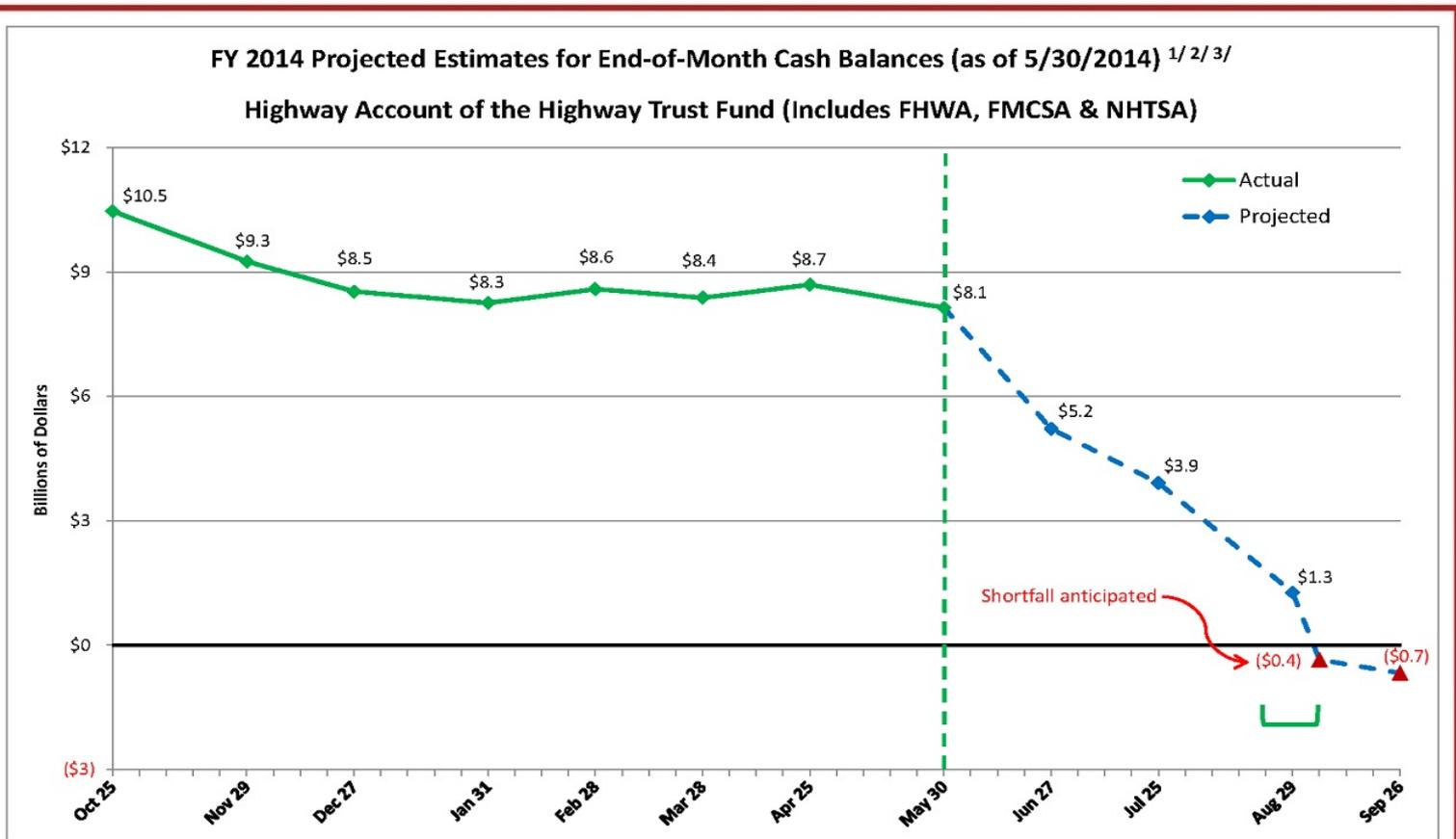


# Future State Structure Health Index

Condition Compared to a New Structure



# Federal Highway Trust Fund



1/ Graph reflects actual data through 5/30/14 and end-of-month projections for the remainder of the fiscal year.

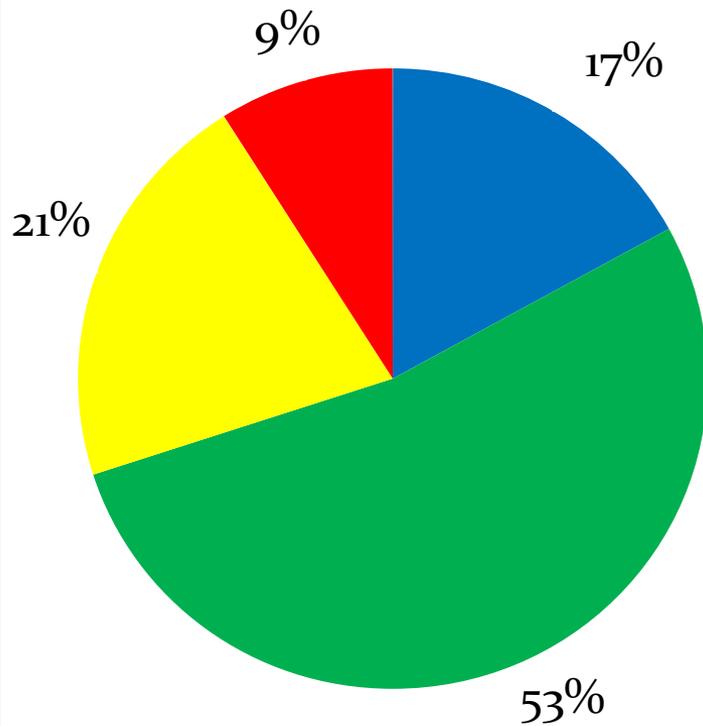
2/ Total receipt and outlay projections are based on FY 2015 President's Budget Baseline assumptions. Projected monthly receipt and outlay rates are based on historic averages.

3/ Range of anticipated shortfall: Green brackets denote the estimated window of when the anticipated shortfall will occur.

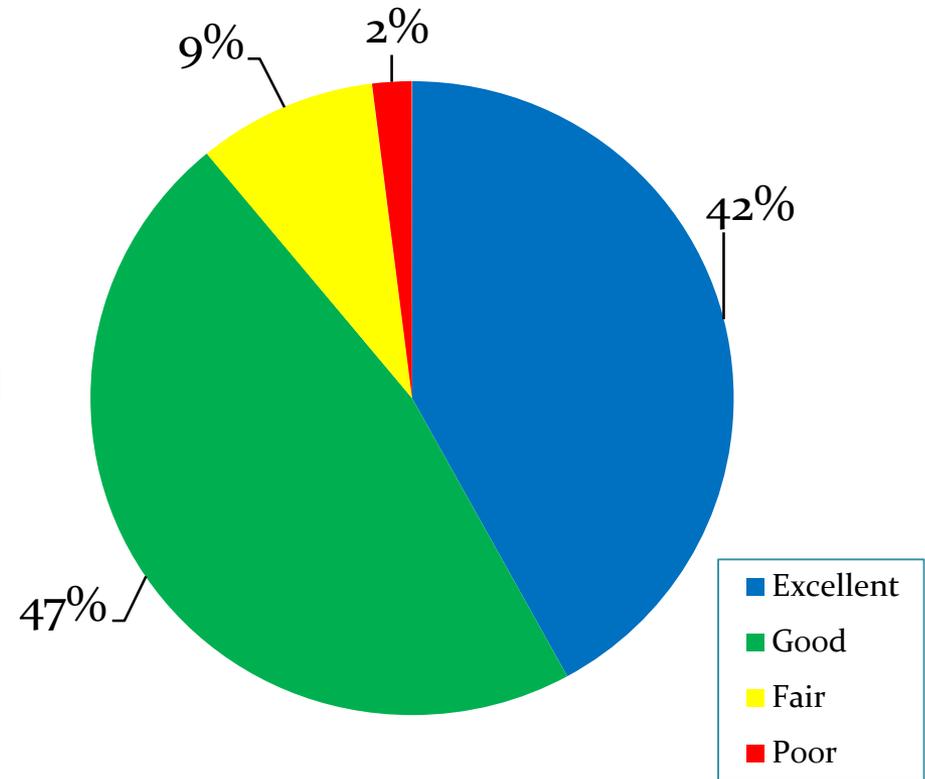
Source: FHWA

# 1999 & 2014 State Pavement Condition

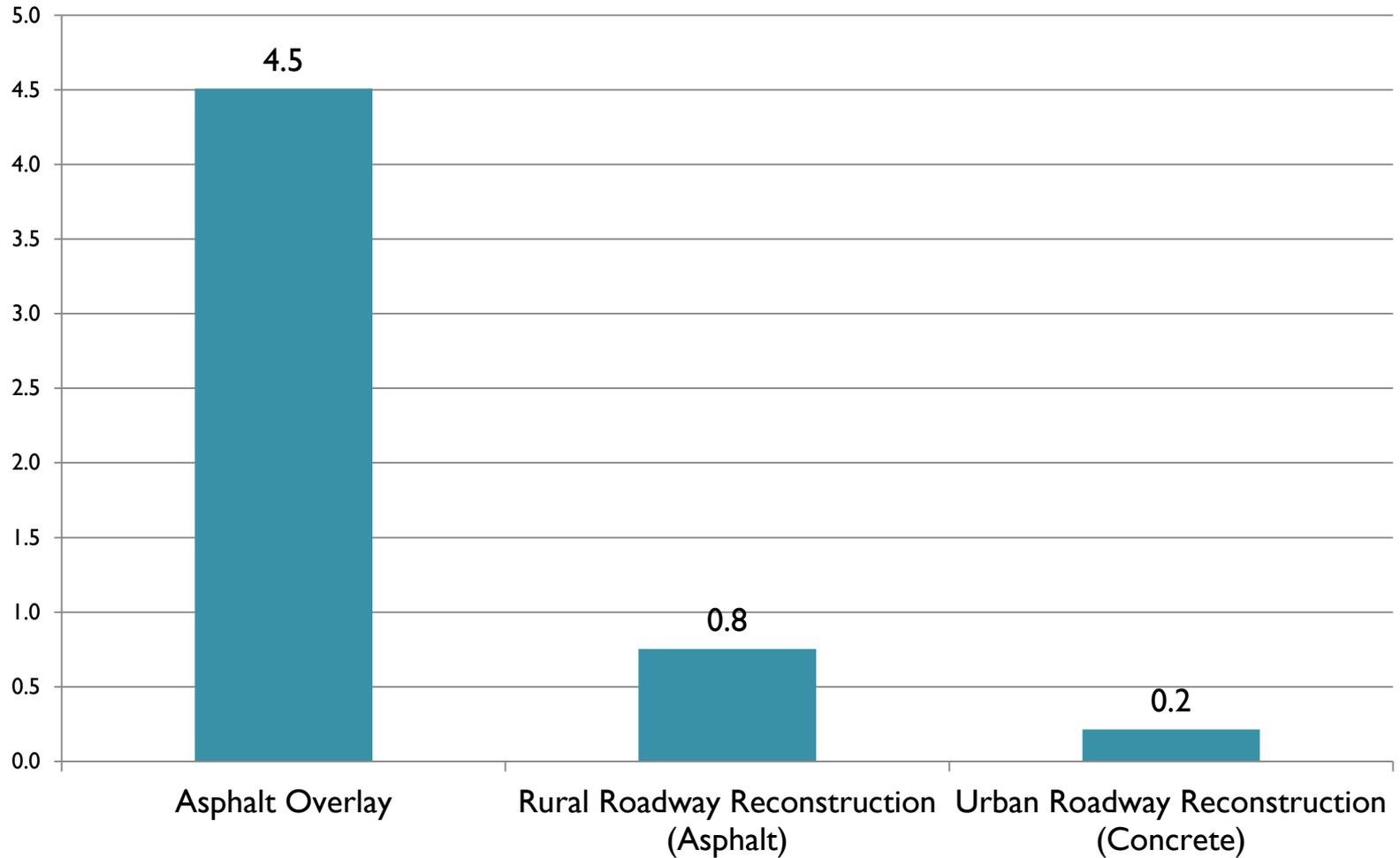
1999 Pavement Condition Distribution



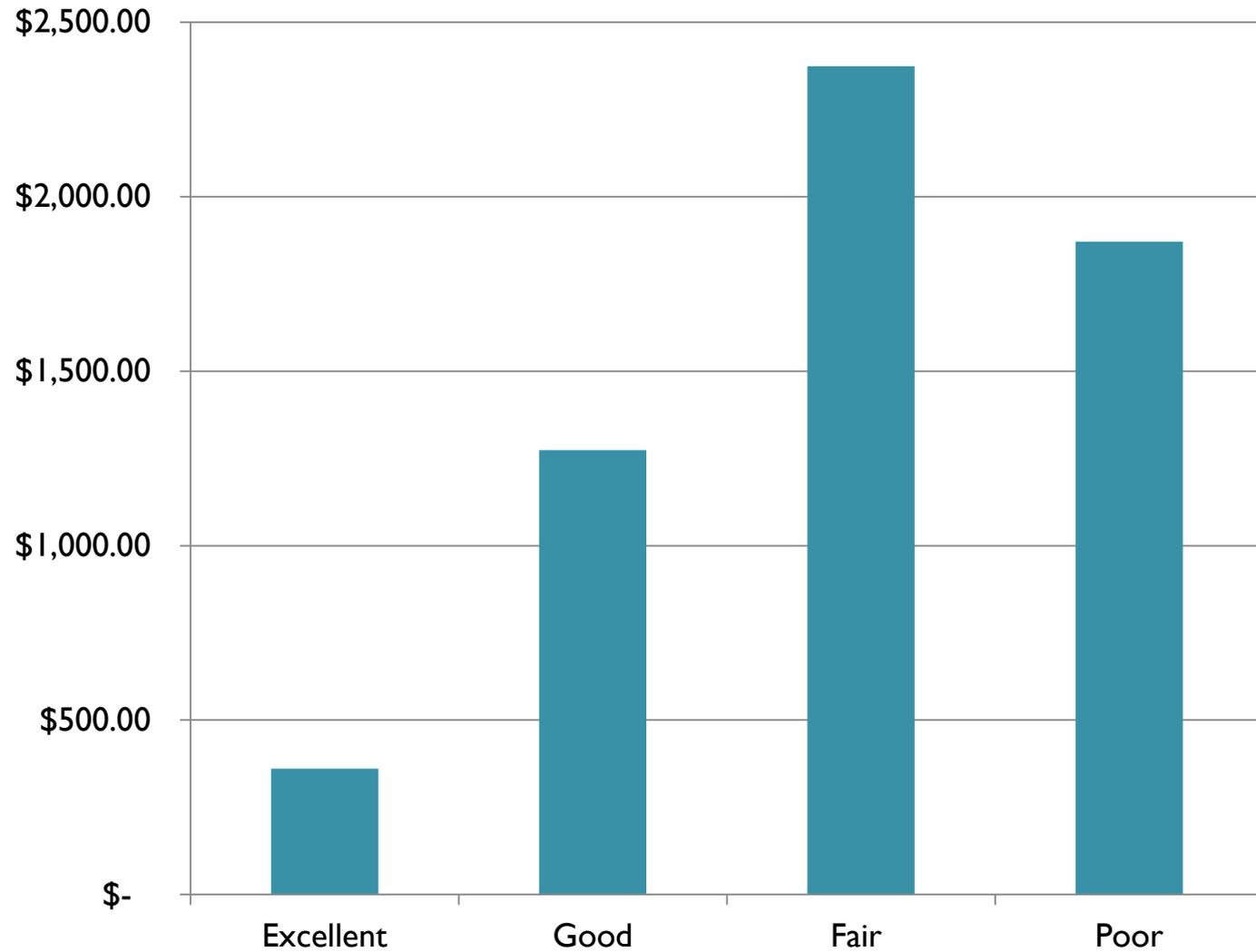
2014 Pavement Condition Distribution



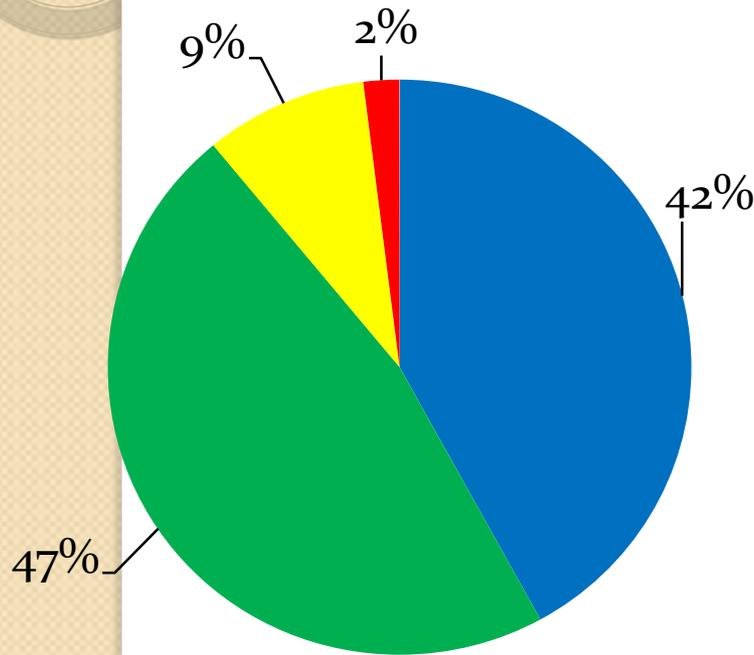
# How many miles does a Million Dollar investment buy?



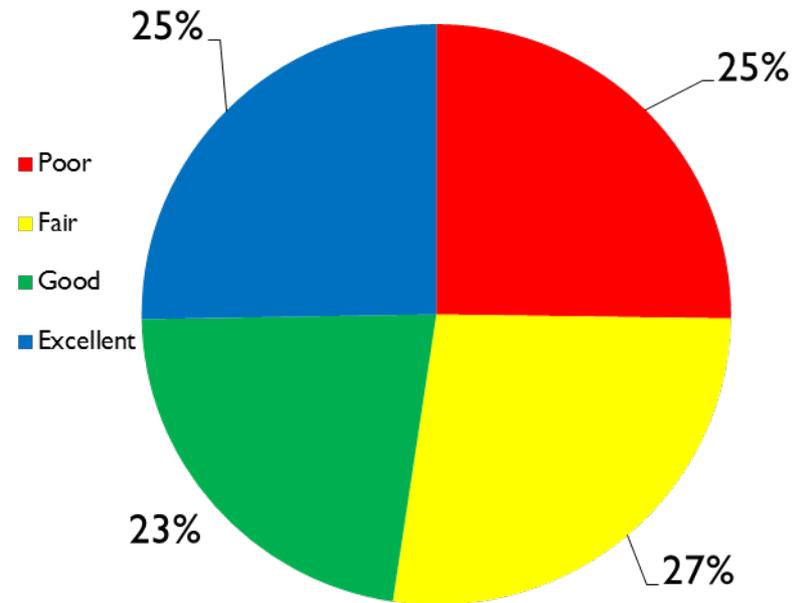
# Pavement Maintenance Costs



# Future State Pavement Condition

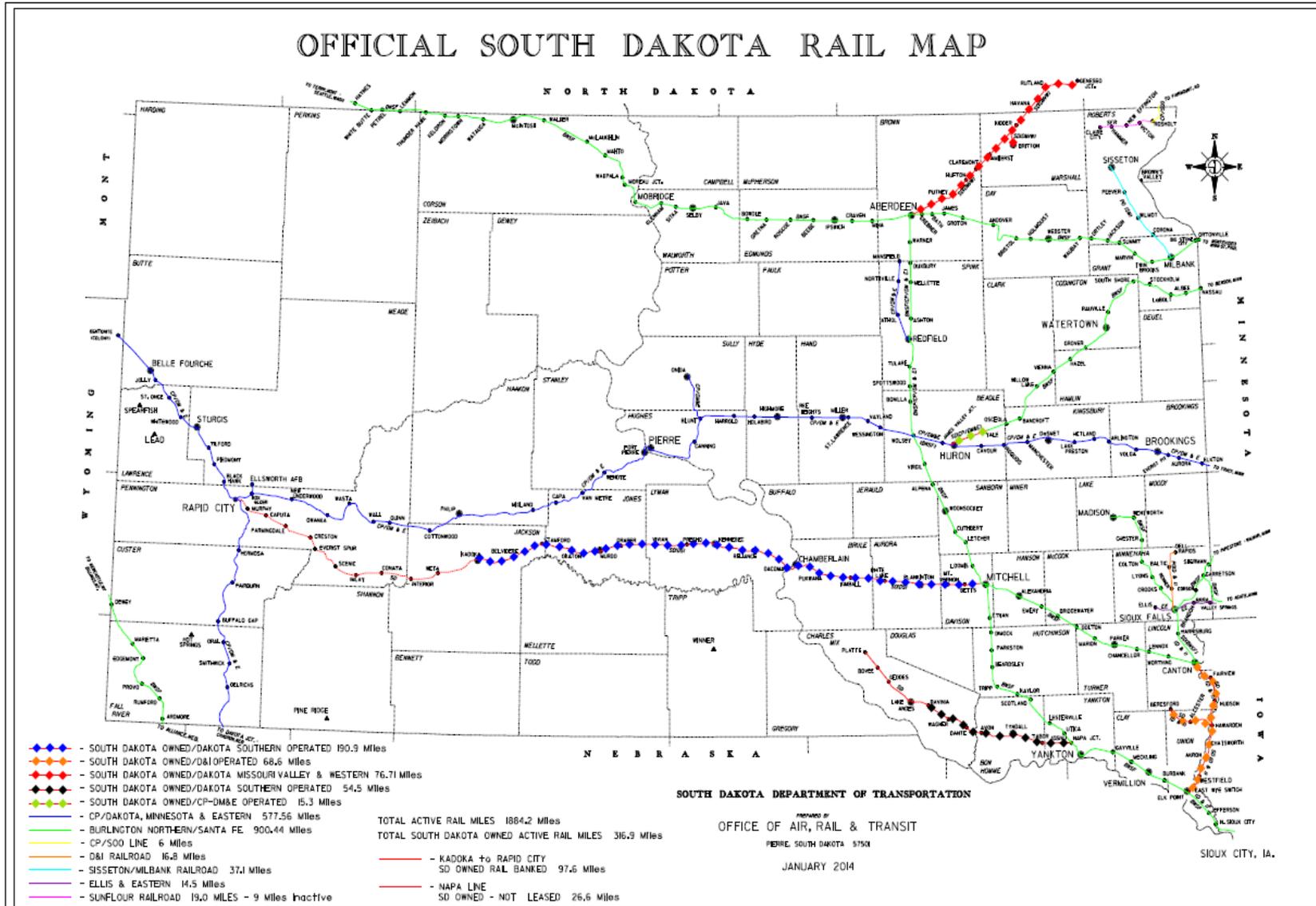


**2014 Condition**

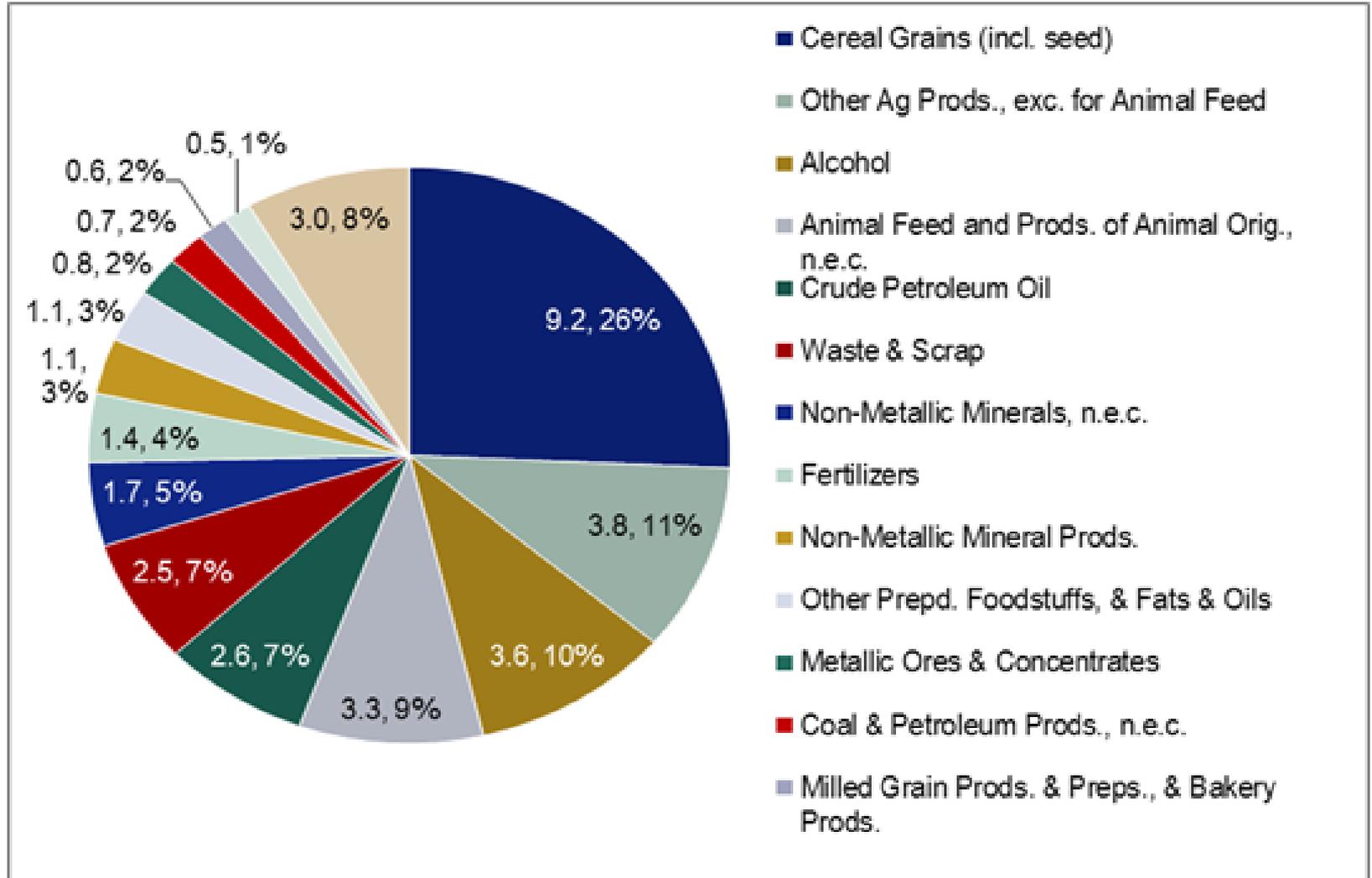


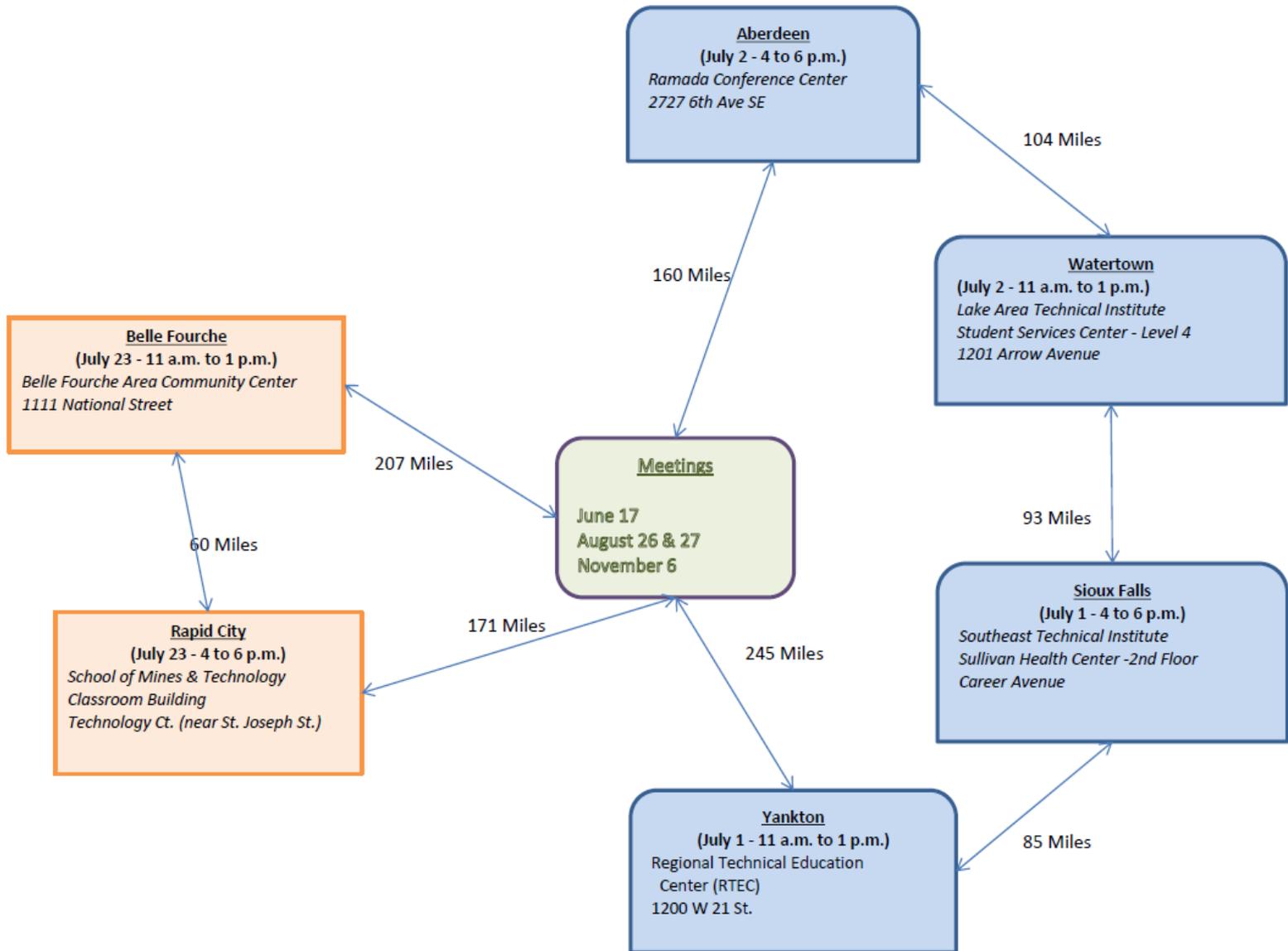
**2024 Projected Condition**

# State Rail Map



# Rail Shipments - 2011





If you got it, a road brought it. Not much is parachuted in!

