



# Fact Book 2012-2013



## Phone Numbers and Web Sites

### Road conditions



Outside South Dakota

1-866-MYSD511(1-866-697-3511)

**Road conditions Web site  
and to register for closure reports**

<http://safetravelusa.com/sd/>



Roadside assistance (State Radio)

(605) 458-5517

### SDDOT Web site

[www.sddot.com](http://www.sddot.com)

### SDDOT Central Office in Pierre

(605) 773-3265

#### *Mitchell Region*

(605) 995-8129

Sioux Falls Area

(605) 367-5680

Mitchell Area

(605) 995-8120

Yankton Area

(605) 668-2929

#### *Rapid City Region*

(605) 394-2244

Rapid City Area

(605) 394 2248

Belle Fourche Area

(605) 892-2872

Custer Area

(605) 673-4948

#### *Aberdeen Region*

(605) 626-2244

Aberdeen Area

(605) 626-7885

Huron Area

(605) 353-7140

Watertown Area

(605) 882-5166

#### *Pierre Region*

(605) 773-3464

Pierre Area

(605) 773-5294

Mobridge Area

(605) 845-3844

Winner Area

(605) 842-0810

**For South Dakota highway maps**  
(Dept. of Tourism)

1-800-732-5682

[www.travelsd.com](http://www.travelsd.com)

**S.D. driver licensing information**  
(Dept. of Public Safety)

1-800-952-3696

[dps.sd.gov/licensing/driver\\_licensing/](http://dps.sd.gov/licensing/driver_licensing/)

### Trucking information

[www.sdtruckinfo.com](http://www.sdtruckinfo.com)

Oversize, over-height vehicles

(605) 773-4578

## A Message from the Governor

### **My Fellow South Dakotans**

South Dakota needs good transportation infrastructure to grow its economy.

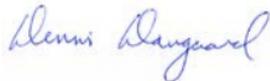
We want to move products and supplies quickly and efficiently. We want to drive on convenient, safe roads.

South Dakota Dept. of Transportation personnel have been working hard to plan, build and maintain that kind of transportation infrastructure. State Highway System pavement conditions are at an all-time high, a feat accomplished through efficient use of your tax dollars. Interstate lanes and interchanges have been added to handle growing traffic in our tourism and population centers. Rural highways are being resurfaced and given enhanced safety features.

Improvements in railroads, airports and public transit services also have promoted economic development and improved our quality of life.

Keeping up this good work likely will be more difficult in the years ahead, given the uncertainty of long-term federal support for transportation and the ongoing recession. I understand the importance of transportation in our state and, along with the rest of state government, will do all I can to ensure our transportation infrastructure keeps South Dakota's people and economy moving.

Sincerely,



Governor Dennis Daugaard



## A Message from the Secretary

Each day, our goal at the South Dakota Department of Transportation is to provide you with a safe, efficient and effective transportation system.

Department employees continually monitor road and bridge conditions, and design essential repairs and improvements. In the spring, summer and fall, engineers and technicians oversee numerous construction projects across the state. Our maintenance staff mows right of way, fixes signs and performs spot pavement and shoulder repairs. When the snow flies, SDDOT crews plow state highways while providing important road condition information to travelers.



During spring flooding in 2010 and 2011, the SDDOT stepped up its efforts to help local governments by providing engineering expertise and assistance to counties, cities and townships with flooded roads. The SDDOT also improves rail freight service for farmers, provides airport planning and engineering expertise, assists local governments with road and bridge projects, and administers federal public transit funding.

Providing more information to taxpayers about the value and quality of our services and products has been an ongoing strategic goal in recent years. This 2012-2013 *Fact Book* is part of that effort. South Dakota Department of Transportation employees are proud of their role in connecting our state and the nation. Thank you for your support.

Sincerely,

A handwritten signature in black ink that reads "Darin P. Bergquist". The signature is written in a cursive style.

Darin P. Bergquist  
Secretary of Transportation

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## Mission

To provide a safe, efficient and effective transportation system.

## Vision

As a responsible and conscientious transportation resource for the taxpayers of South Dakota, the DOT will diligently work to provide transportation facilities that meet the needs of the traveling public. Our eyes are on the future. We are a proud, resourceful and energetic entity that will continue to strive to meet ever-changing needs today and every day to come.

## Core Values

### High ethical standards

Integrity is achieved when the highest ethical standards are maintained in our dealings with each other, our business partners and the public.

### Stewardship of public resources

Wise investment of the public's resources is paramount. We will be efficient and accountable in our use of these resources.

### Public service

Public service is a noble profession. We work to serve others for the common good, and, in doing so, take care of their needs, listen to their concerns and find solutions to their problems. Our customers, internal as well as external, are our first responsibility.

### Our people are our most valuable resource

The department will foster a positive work environment where people take pride in accomplishments and treat each other with openness, respect and honesty.

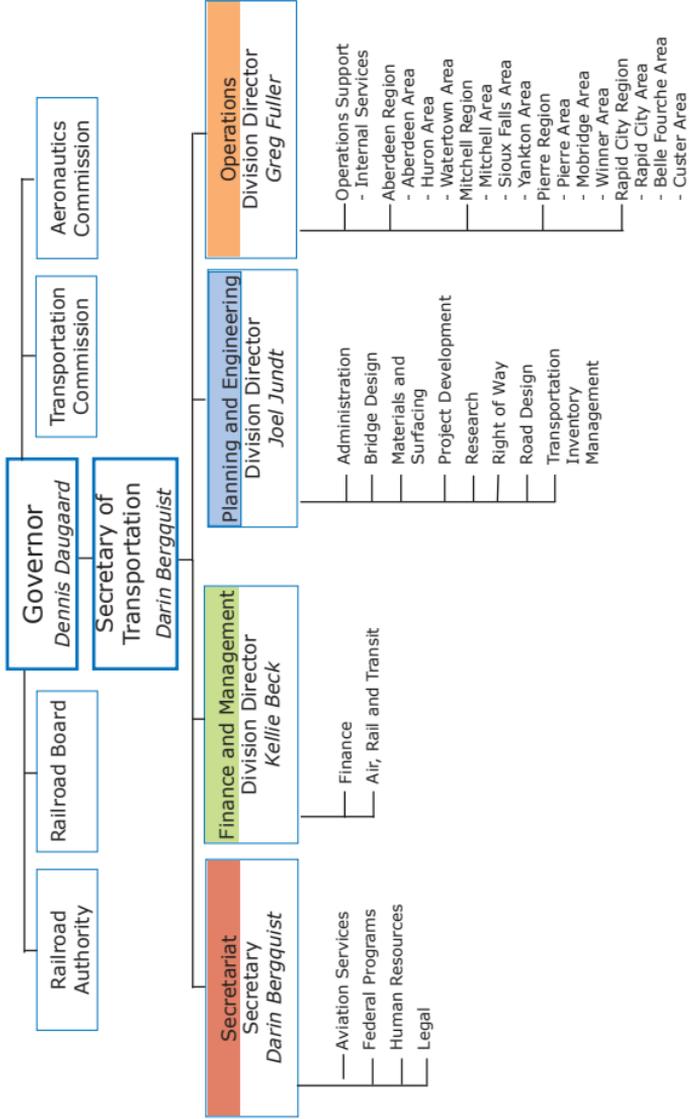
### Safety

Safety is in the forefront of all that we do. We will integrate practical safety improvements in all of our business practices.



*SDDOT engineers meet each spring in Pierre to hash out priorities for the next five-year State Transportation Improvement Program (STIP).*

# South Dakota Dept. of Transportation Organization Chart



## Management Contacts

|  |                |
|--|----------------|
| Secretary Darin Bergquist .....                | (605) 773-5105 |
| Transportation Specialist Kevin Tveidt .....   | (605) 773-5105 |
| Human Resources Manager Peggy Laurenz .....    | (605) 773-6943 |
| Chief Legal Counsel Karla Engle.....           | (605) 773-3262 |
| Public Information Officer Kristi Sandal ..... | (605) 773-7179 |

### Planning and Engineering Division

|                          |                |
|--------------------------|----------------|
| Director Joel Jundt..... | (605) 773-5105 |
|--------------------------|----------------|

#### Program Managers

|   |                |
|---|----------------|
| Administration, Laurie Schultz .....                  | (605) 773-8149 |
| Project Development, Mike Behm .....                  | (605) 773-3268 |
| Road Design, Mark Leiferman .....                     | (605) 773-3433 |
| Bridge Design, Kevin Goeden .....                     | (605) 773-3285 |
| Right of Way, Joel Gengler .....                      | (605) 773-3746 |
| Transportation Inventory Management, Rocky Hook ..... | (605) 773-3278 |
| Research, Dave Huft.....                              | (605) 773-3292 |
| Materials and Surfacing, Joe Feller.....              | (605) 773-3401 |

### Operations Division

|  |                |
|--|----------------|
| Director Greg Fuller.....                              | (605) 773-3571 |
| Construction and Maintenance Engineer Jason Humphrey.. | (605) 773-3571 |
| Internal Services, Brian Moore.....                    | (605) 773-3581 |

#### Region Engineers

|                               |                |
|-------------------------------|----------------|
| Mitchell, Tom Week .....      | (605) 995-8129 |
| Rapid City, Todd Seaman ..... | (605) 394-2244 |
| Pierre, John Forman.....      | (605) 773-3464 |
| Aberdeen, Jeff Senst.....     | (605) 626-2244 |

### Finance and Management Division

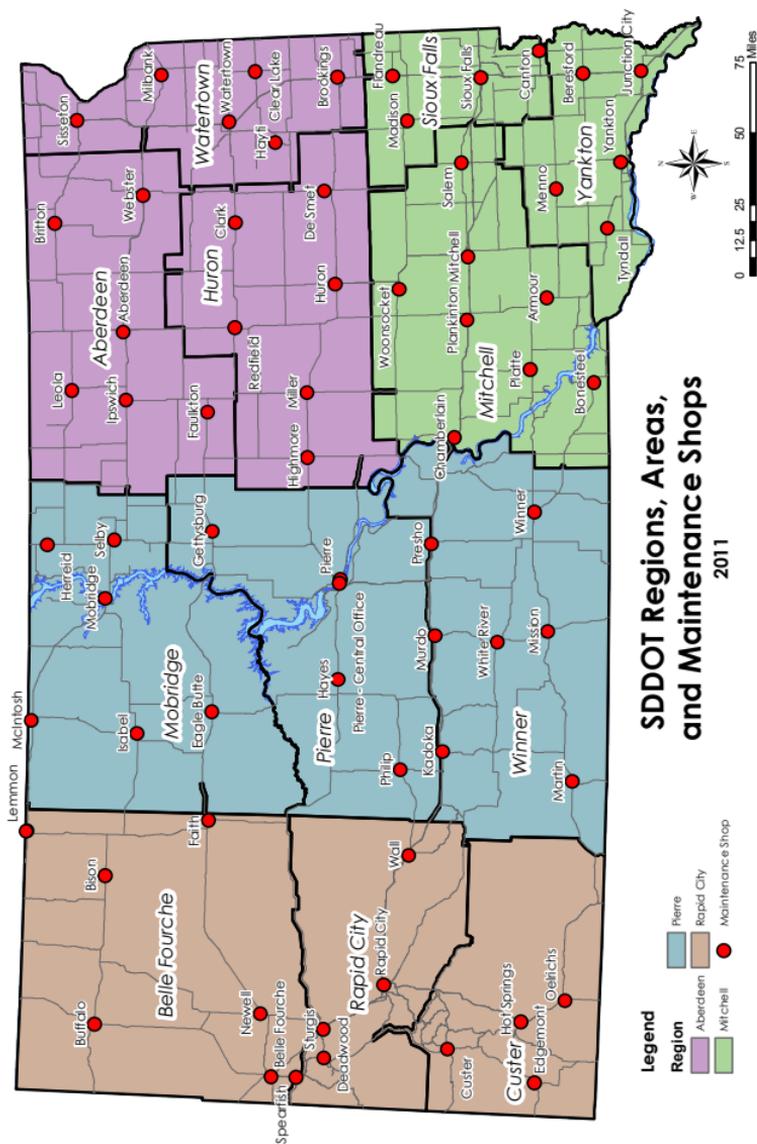
|                            |                |
|----------------------------|----------------|
| Director Kellie Beck ..... | (605) 773-3284 |
|----------------------------|----------------|

#### Program Managers

|   |                |
|---|----------------|
| Finance, David Knigge.....                  | (605) 773-3284 |
| Air, Rail and Transit, Bruce Lindholm ..... | (605) 773-7045 |

## Significant Events in SDDOT History

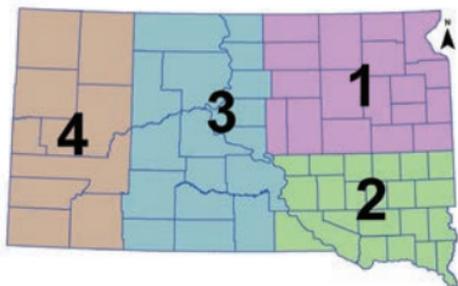
- 1862** First roads approved by Dakota Territory legislators. One was to go from Yankton to “Smutty Bear’s camp,” Bon Homme, Springfield, Neshuda and Choteau Creek.
- 1885** Board of Railroad Commissioners established.
- 1913** State Highway Commission created.
- 1917** South Dakota Highway Department created.
- 1919** First federal highway funding received for gravel road in Codington County.
- 1922** Gasoline is taxed at one cent per gallon to pay for roads.
- 1923** Motor vehicle purchases taxed to pay for roads.
- 1924** First permanent, state-funded highway bridge across Missouri River at Mobridge.
- 1935** South Dakota Aeronautics Commission created by the Legislature.
- 1958** First 15 miles of South Dakota Interstate opened.
- 1973** South Dakota Dept. of Transportation is created by Gov. Richard Kneip. An aeronautics division was created within the department at the same time.
- 1974** Missouri River bridge on Interstate 90 at Chamberlain completed.
- 1975** Division of Railroads created within the SDDOT.
- 1976** Interstate 90 in South Dakota officially completed.
- 1980** State buys abandoned Milwaukee Road tracks to preserve economical rail transport for grain farmers. South Dakota Railroad Authority established.
- 1983** Last section of Interstate 29 completed.
- 2002** 511 Traveler Information System introduced.
- 2005** State sells 368 miles of railroad track and right of way to BNSF Railway for \$40.3 million.
- 2006** 511 Traveler Information System Web site, <http://safetravelusa.com/sd/>, is launched.



Source: SDDOT Office of Transportation Inventory Management

## Transportation Commission

Each year, the South Dakota Transportation Commission approves the Statewide Transportation Improvement Program, or STIP, the list of highway and bridge projects scheduled for the next five years. The commission also awards construction contracts and can change speed limits on state highways. The nine members are appointed or reappointed by the governor to four-year terms. Each represents one of four areas.



|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| Robert Benson     | Area 3         | Don Roby           | Area 1         |
| Winner            | (605) 842-5648 | Watertown          | (605) 753-5720 |
| Term ends:        | April 2015     | Term ends:         | April 2013     |
| Rodney Fouberg    | Area 1         | Jerry Shoener      | Area 4         |
| Aberdeen          | (605) 225-0832 | Rapid City         | (605) 719-9977 |
| Term ends:        | April 2013     | Term ends:         | April 2015     |
| Richard Gregerson | Area 2         | Sam Tidball        | Area 3         |
| Sioux Falls       | (605) 336-3890 | Fort Pierre        | (605) 223-7690 |
| Term ends:        | April 2012     | Term ends:         | April 2014     |
| Mike MacDowell    | Area 1         | Michael J. Trucano | Area 4         |
| Madison           | (605) 256-6536 | Deadwood           | (605) 578-2000 |
| Term ends:        | April 2014     | Term ends:         | April 2012     |
| Ralph Marquardt   | Area 2         |                    |                |
| Yankton           | (605) 665-1053 |                    |                |
| Term ends:        | April 2015     |                    |                |

## Railroad Board

The South Dakota Railroad Board is comprised of seven members, appointed by the governor to four-year terms. The panel decides how rail service on rail properties acquired, leased or controlled by the state will be operated, managed, financed, marketed or developed.

Carl G. Anderson  
Aberdeen (605) 225-5039  
Term ends: June 2014  
Represents: Marketing

Ron Mitzel  
Rapid City (605) 716-2451  
Term ends: June 2012  
Represents: User of rail service

Dan Baker  
Rapid City (605) 718-7403  
Term ends: June 2014  
Represents: At large

Jack Parliament  
Sioux Falls (605) 334-5000  
Term ends: June 2013  
Represents: Operation of service

Gary Doering  
Cavour (605) 599-2851  
Term ends: June 2015  
Represents: Finance

Todd Yeaton  
Highmore (605) 852-3250  
Term ends: June 2014  
Represents: Business management

Chester Groseclose Jr.  
Sioux Falls (605) 275-0630  
Term ends: June 2013  
Represents: At large

For more railroad information,  
go to: <http://www.sddot.com>.



*A Harrold Grain Co. employee wearing a safety tether opens the cargo doors of a train car that will be filled with corn grown in central South Dakota.*

## General Information

### Railroad Authority

The South Dakota Railroad Authority can acquire property and construct, maintain and equip railroad facilities as directed by the Legislature to be in the public interest. The authority was created when South Dakota purchased the assets of the Milwaukee Road in 1980. It is comprised of seven members appointed by the governor to four-year terms.

Daniel Cotton

Beresford (605) 763-2226

Term ends: January 2015

Thomas L. Greenway

Mitchell (605) 996-8478

Term ends: January 2014

Warren Lotsberg

Huron (605) 352-5660

Term ends: January 2014

George Nikolas

Aberdeen (605) 225-8373

Term ends: January 2013

Scott Stern

Freeman (605) 925-7999

Term ends: January 2015

Dennis Yeaton

Higmore (605) 680-0138

Pending reappointment

One vacancy



*A Dakota, Minnesota and Eastern Railroad train leaves Philip for Huron in January 2011. Canadian Pacific Railway purchased the DM&E in 2008, and now operates the Class II railroad as a subsidiary.*

## Aeronautics Commission

South Dakota's Aeronautics Commission promotes aeronautics, fosters air commerce and assists the development of aviation and aviation facilities for all phases of the industry and general public in South Dakota.

Responsibilities include supervision of aeronautical activities and facilities in South Dakota, including airports, regulation of potential hazards such as wind turbines and cell phone towers, and navigation facilities.

Chris Funk  
Madison (605) 256-9774  
Term ends: June 2015

Travis Lantis  
Spearfish (605) 642-7736  
Term ends: June 2016

Buron O. Lindbloom  
Pierre (605) 224-5292  
Term ends: June 2012

Larry Nelson  
Rapid City (605) 341-5550  
Term ends: June 2013

Richard L. Pearson  
Brandon (605) 582-8206  
Term ends: June 2016

Vern C. "Skip" VanDerhule  
Yankton (605) 665-7413  
Term ends: June 2014

Larry Vetterman  
Hot Springs (605) 745-5932  
Term ends: June 2012

To learn more, go to:  
<http://www.sddot.com>.



## Participate in Transportation Decisions

### **Regular Meetings**

All South Dakota Transportation Commission, Aeronautics Commission, Railroad Board and Railroad Authority meetings are open to the public. Agendas for upcoming meetings and notices of other public meetings are at <http://www.sddot.com>.

### **Transportation Commission**

South Dakota Transportation Commission meetings are held on the fourth Thursday of the month in the Becker-Hansen Building, 700 E. Broadway Ave., in Pierre. Additional meetings are sometimes scheduled to award bids or deal with special issues. Contact the Secretary of Transportation Office at (605) 773-5105 with any questions.

### **Aeronautics Commission, Railroad Board, Railroad Authority**

Contact the Local Transportation Programs Office at (605) 773-3574 with any questions about Aeronautics Commission, Railroad Board or Railroad Authority meetings.

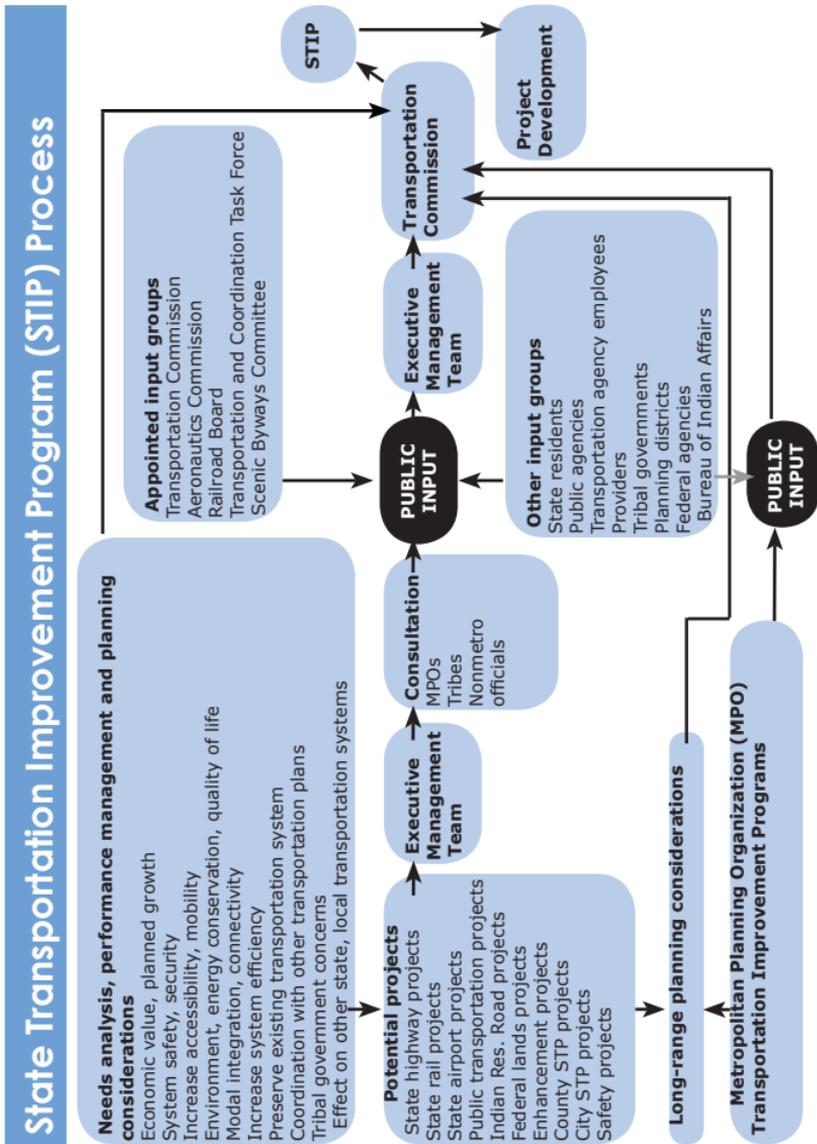
### **State Transportation Improvement Program Meetings**

South Dakotans can learn about and comment on projects planned in their geographic areas at the regular State Transportation Improvement Program (STIP) meetings held every summer in Sioux Falls, Mitchell, Aberdeen, Rapid City and Pierre. The STIP is the schedule of SDDOT construction and maintenance projects for the next five years.



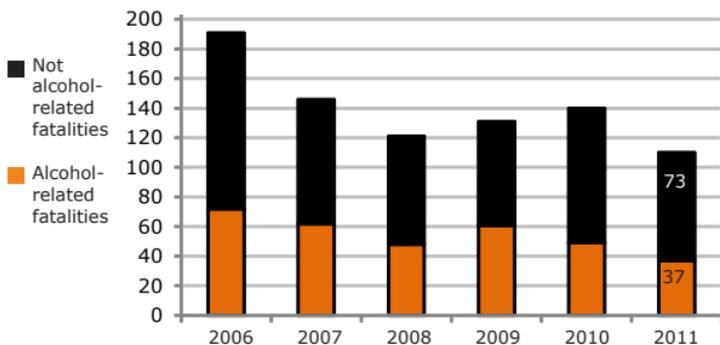
### **Project-Related Meetings**

Open house-style meetings are held at certain points in the planning process of some road and bridge projects. The department works with the news media to publicize these events.



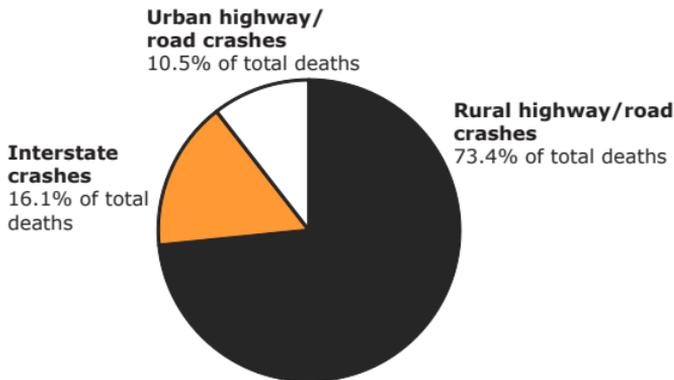
## 110\* Highway Fatalities in 2011, Decrease of 30

Alcohol-related deaths decrease by 12



\*Preliminary number as of February 2012. Final 2011 statistics are not reported until later in 2012.  
Source: Office of Highway Safety, South Dakota Dept. of Public Safety

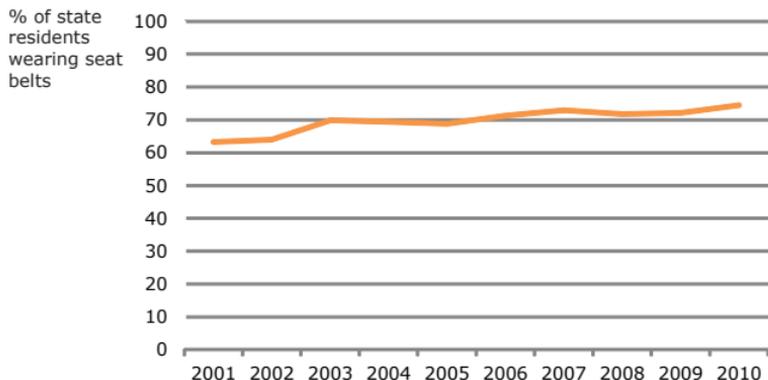
## 73% of Fatal Crashes Were on Rural Roads



Source: 2010 South Dakota Motor Vehicle Traffic Crash Summary

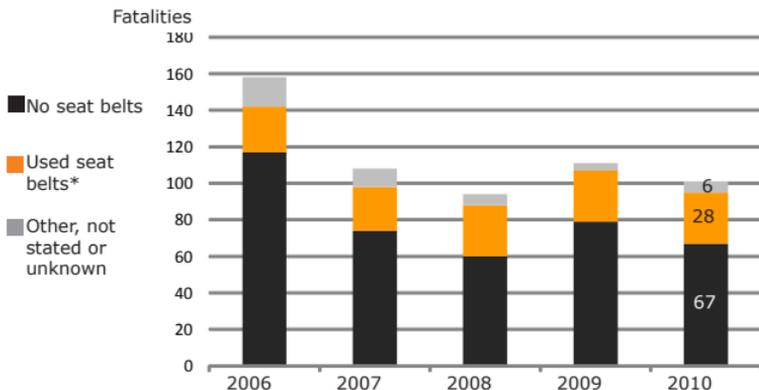
## Seat Belt Use in South Dakota Increases

74.5% of South Dakotans buckled up in 2010



Source: 2010 South Dakota Statewide Seatbelt and Motorcycle Helmet Use Survey. Line chart shows annual weighted averages.

## Lack of Seat Belts a Factor in Most Deaths

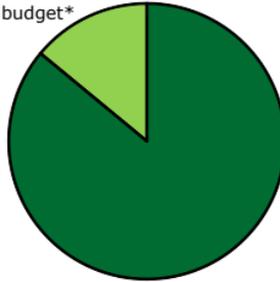


\*Includes child safety seats. Does not include drivers and passengers of motorcycles, mopeds, all-terrain vehicles and snowmobiles.

Source: 2010 South Dakota Motor Vehicle Traffic Crash Summary

## Transportation Was 14% of FY 2011 State Budget

**Transportation funding**  
(including federal funds)  
\$567 million  
14% of total state budget\*

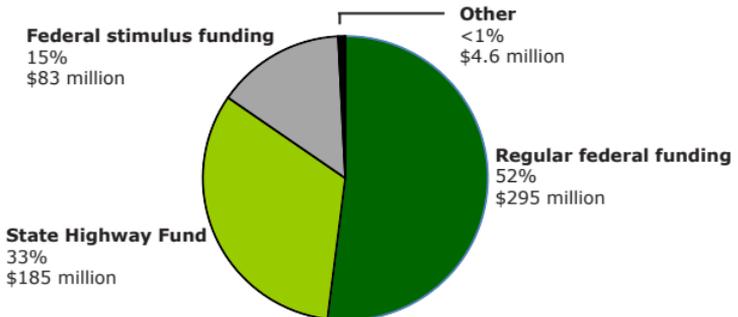


**Other agencies**  
\$3.483 billion  
86% of total state budget\*

\*Total state budget includes state general funds, federal funds and other funds.

Source: SDDOT Finance and Management Division. All figures are appropriated amounts.

## Federal, State Funds in FY 2011 DOT Budget



Source: SDDOT Finance and Management Division

## Total State Highway Fund Revenue

Construction inflation has cut buying power by 51% since 1999



\*2010 and 2011 figures are estimates.

Source: SDDOT Division of Finance and Management

## Inflation's Impact on Highway Funding

What \$1 bought in 1999...

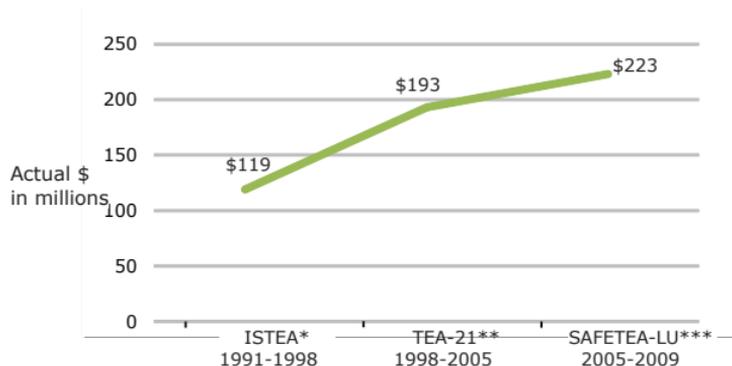


...cost \$2 in 2011



The South Dakota state gas tax was last raised in 1999, to 22 cents. Due to inflation, what \$1 could buy in 1999 for highway construction now costs a little over \$2.

## S.D. Average Annual Federal Formula Funds



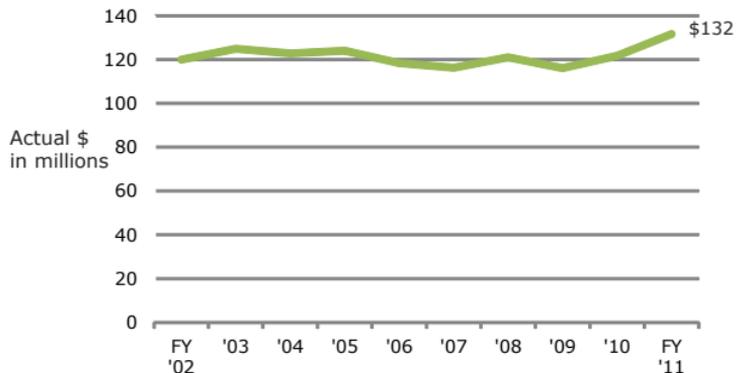
\*Intermodal Surface Transportation Efficiency Act of 1991

\*\*Transportation Equity Act for the 21st Century

\*\*\*Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

Source: SDDOT Office of Project Development

## Motor Fuel Revenue



Source: SDDOT Division of Finance and Management

## Motor Fuel Taxes in Neighboring States

| State               | Gas        | Gasohol    | Diesel     |
|---------------------|------------|------------|------------|
| Minnesota           | .28        | .28        | .28        |
| Montana             | .27        | .27        | .2775      |
| Nebraska            | .267       | .267       | .267       |
| North Dakota        | .23        | .23        | .23        |
| <b>South Dakota</b> | <b>.22</b> | <b>NA*</b> | <b>.22</b> |
| Iowa                | .21        | .19        | .225       |
| Wyoming             | .13        | .13        | .13        |
| Federal             | .184       | .184       | .244       |
| U.S. Average        | .209       | -          | .19        |

\*Ethyl alcohol is now taxed at 8 cents/gal. at the wholesale level. Pure gasoline and the gasoline mixed with ethyl alcohol is taxed at 22 cents/gal. at retail.

Source: State rates from respective state government Web sites as of Jan. 2012; federal rates from FHWA; average from American Petroleum Institute as of Jan. 2012

## Selected Gas Tax Statistics

**\$2/\$1** South Dakota historically has gotten \$2.20 in federal gas tax revenue for every \$1 of federal gas tax paid in the state.

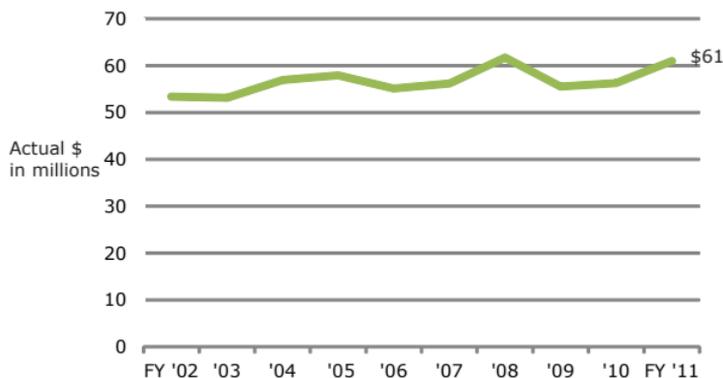
**\$130** Each South Dakota resident paid an average of \$130 in federal motor fuel taxes in FY 2010, the most recent year for this federal statistic.

**\$162** Each South Dakota resident paid an average of \$162 in state motor fuel taxes in FY 2011.

**\$5.7 million** 1 cent of South Dakota gas tax raises an average of \$5.7 million a year.

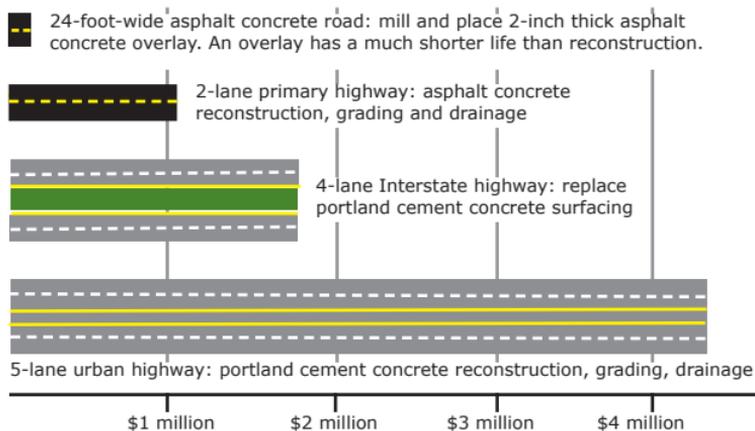
Source: Tables FE-221, (Aug. 2011) and FE-9 (Nov. 2010), *Highway Statistics 2010*, Federal Highway Administration; 2010 U.S. Census; SDDOT Division of Finance and Management

## Motor Vehicle 3% Excise Tax Revenue



Source: SDDOT Division of Finance and Management

## Per-Mile Costs of Road Improvements



Source: SDDOT Division of Planning and Engineering, 2011 data

## Per-Mile Costs of Winter Maintenance

Winter of 2010-2011

Interstates

**\$3,100 per mile**

Other state-owned highways

**\$1,900 per mile**



*305 full-time and 96 part-time SDDOT employees use 443 single and tandem axle snow plows to clear and de-ice 7,830 centerline miles of state highways*

## Winter Material Costs and Total Winter Costs

| <i>Maintenance materials, 2010-2011</i> |              |             | <i>Recent winter totals</i> |             |
|---|--------------|-------------|-----------------------------|-------------|
|   | Amount       | Cost        | Winter                      | Millions \$ |
| Diesel fuel                             | 983,956 gal. | \$2,980,157 | 2010-2011                   | 18.3        |
| Salt                                    | 45,691 tons  | \$2,913,309 | 2009-2010                   | 15.6        |
| Abrasives                               | 43,639 tons  | \$1,227,288 | 2008-2009                   | 17.9        |
| Magnesium Chloride*                     | 441,254 gal. | \$397,853   | 2007-2008                   | 15.4        |
| Brine**                                 | 650,185 gal. | \$143,343   | 2006-2007                   | 16.4        |
|   |              |             | 2005-2006                   | 15.7        |

\*Magnesium chloride is applied in liquid form as a de-icer. It is effective at lower temperatures than salt.

\*\*Brine is a mixture of salt and water spread on highways as a de-icer. Use of salt or magnesium chloride depends on weather conditions.

Source: SDDOT Office of Internal Services

## Nonmainline Maintenance Costs in FY 2011

Interstates  
\$4,600 per mile  
Other state-owned highways  
\$2,400 per mile

Nonmainline maintenance includes ditch and median mowing, engineering work for maintenance projects, maintenance project materials, shoulder repairs, and work on signs, drainage, erosion control structures, and fences. It also includes striping, rest area repairs and mowing, and administrative costs for the Region and Area offices.



## Mainline Maintenance Costs in FY 2011

Interstates  
\$2,200 per mile

Other state-owned highways  
\$1,600 per mile

Mainline maintenance includes pothole patching and crack treating of asphalt concrete, isolated portland cement concrete surface repairs, bridge maintenance engineering, bridge hit assessments, regular bridge inspections, concrete bridge surface repairs, bridge structural repairs and bridge engineering data collection.



## Interstate Maintenance Totals \$9,800/Mile/Year

*State highway funds pay for routine maintenance costs*



*Pierre Region maintenance forces have filled potholes in this portland cement concrete pavement on I-90 near Murdo with asphalt concrete. This 8.5-mile segment of the westbound lanes is scheduled for reconstruction in 2016.*

## On Other State Highways, It's \$5,900/Mile/Year

*Federal funds cannot be used for routine maintenance costs*



*Aberdeen Region maintenance forces kept this South Dakota Highway 25 section west of Veblen serviceable with gravel after breakups early in 2011. Asphalt concrete patching was completed later that summer. This section, which serves local dairy farms, will be milled and resurfaced in 2013.*

### Highway System Definitions

#### State Trunk Highway System

Comprised of the 7,756.4 miles of state-owned highways listed in South Dakota Codified Law. These include 679 miles of Interstate highways in South Dakota, U.S. highways in South Dakota and South Dakota state highways.

#### State Highway System

Includes the State Trunk Highway System, plus 31.1 miles of state-owned roads not on the State Trunk Highway System<sup>1</sup>, and 42.1 miles of roads neither state-owned nor on the State Trunk Highway System<sup>2</sup>. The total is 7,830 miles.



*The interchange of Interstates 90 and 29, north of Sioux Falls, December 2010.*

#### National Highway System

The Interstate System, some U.S. highways and the South Dakota state highways most important to the nation's economy, defense and mobility.

#### Federal-Aid Highway System

The Interstates, United States highways, most South Dakota state highways and some local roads are part of the Federal-Aid Highway System, meaning federal funds can be used to structurally maintain, repair, reconstruct and expand these routes.

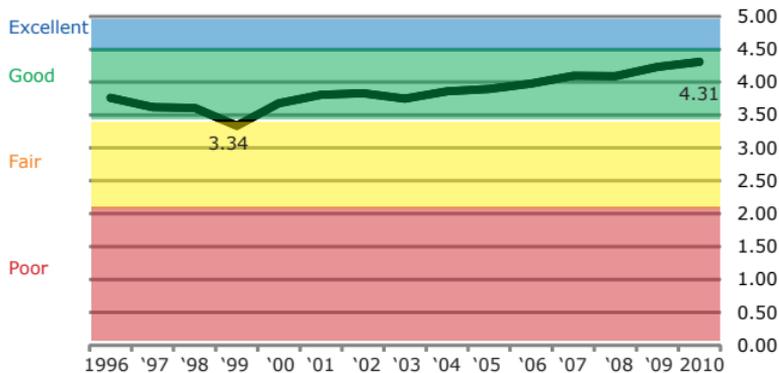
<sup>1</sup> Most of these 31.1 miles are short spur and loop routes owned by the state and included in the state mileage certified by the Federal Highway Administration (FHWA).

<sup>2</sup> These 42.1 miles are routes that are part of the state's FHWA-certified mileage but located on U.S. government land, including Badlands National Park, Wind Cave National Park and Mount Rushmore National Monument.

Source: SDDOT Office of Transportation Inventory Management

## State System Pavement Condition Index

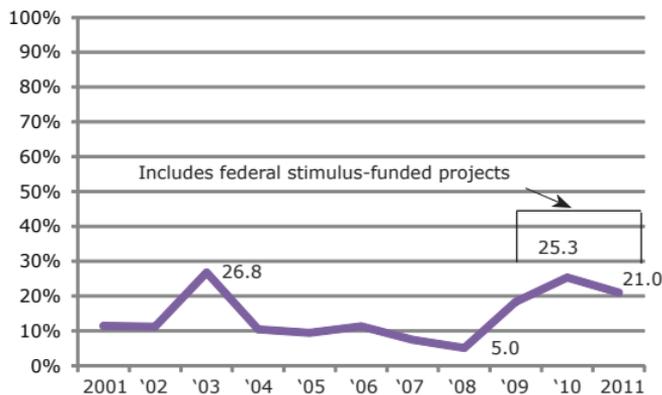
Federal funds boosted state system improvement since 1999



Source: SDDOT Project Development Office

## Percentage of System Improved by Year

Resurfacing, safety, construction and reconstruction projects



Source: SDDOT Project Development Office, STIP data using centerline miles

Excellent, Good, Fair, Poor Asphalt Roads

**Excellent**



Smooth pavement with no rutting and no cracking

**Good**



Visible, light traffic wear, with limited, narrow crosswise and lengthwise cracking

**Fair**



Slight rutting, increasing aggregate loss, increasing width and extent of cracks

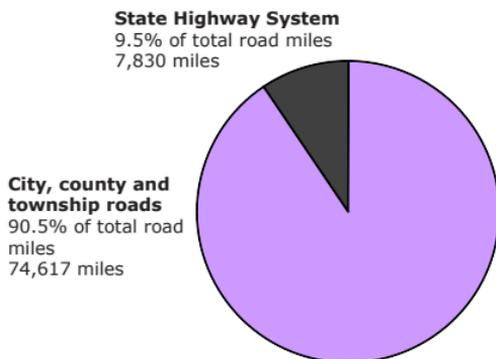
**Poor**



Deteriorated patching, extensive lengthwise and crosswise cracking, moderate rutting

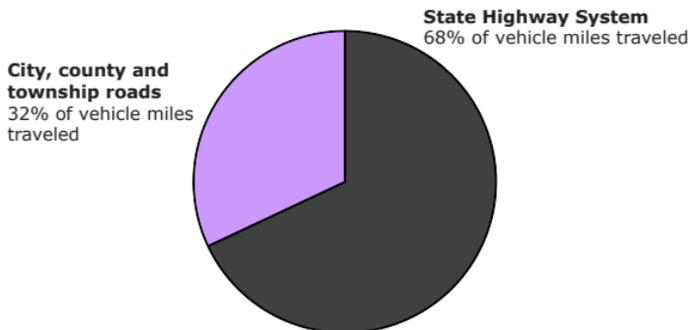
Source: SDDOT Project Development Office

## The Majority of Roads in S.D. Are Local



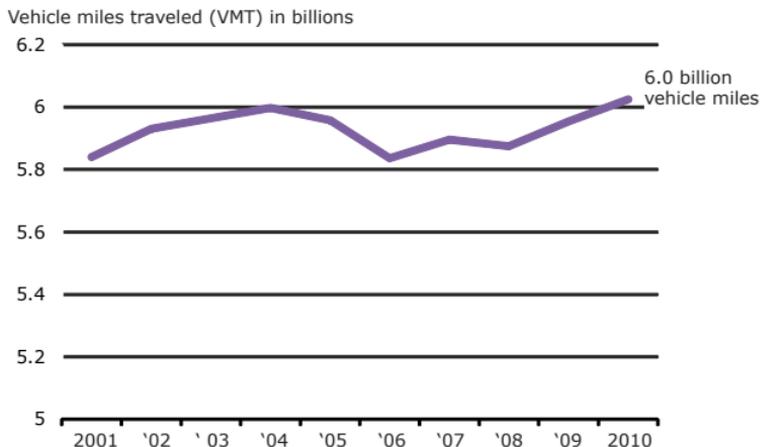
Source: SDDOT Office of Transportation Inventory Management, 2010 data

## The State System Carries Most of the Traffic



Source: SDDOT Office of Transportation Inventory Management, 2010 data

## Vehicle Miles Traveled on State System



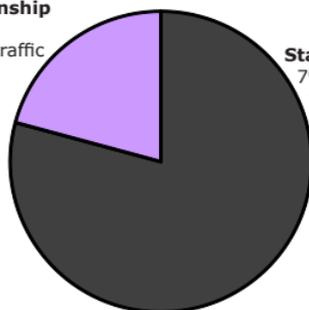
Source: SDDOT Office of Transportation Inventory Management

## State System Carries Most Heavy-Truck Traffic

*Commercial vehicles were 17% of state system traffic in 2010*

**City, county and township roads**

20.8% of heavy-truck traffic

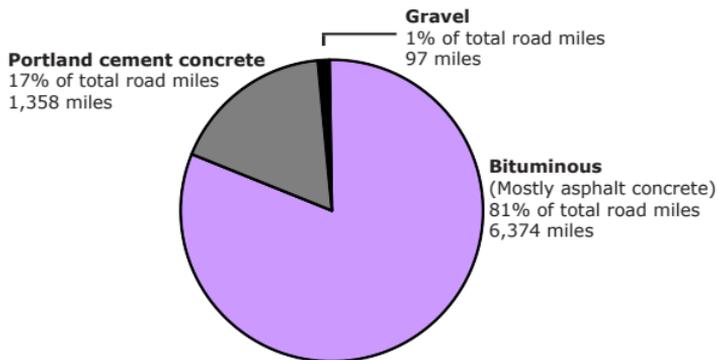


**State Highway System**

79.2% of heavy-truck traffic

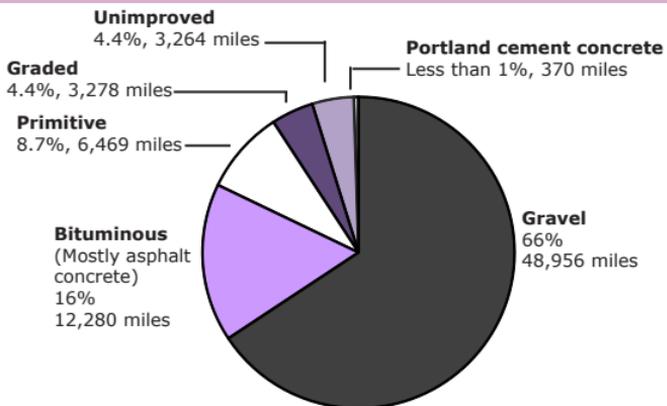
Source: SDDOT Office of Transportation Inventory Management, 2010 data

## Most State Highways Are Asphalt Concrete



Source: SDDOT Office of Transportation Inventory Management, 2010 data

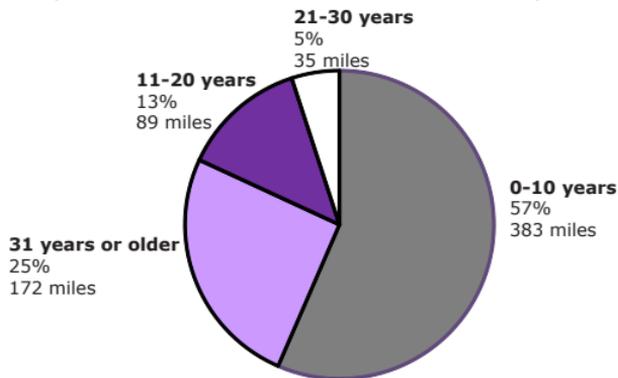
## Most Local Roads Are Gravel



Source: SDDOT Office of Transportation Inventory Management, 2010 data

## Age of Interstate Pavement Surfaces

74% is portland cement concrete, 26% is asphalt concrete

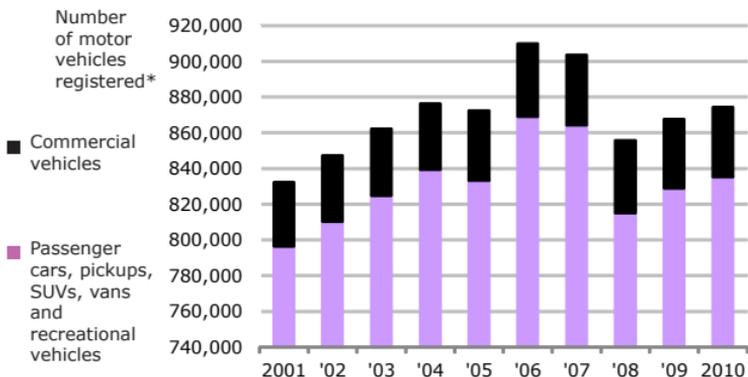


Source: SDDOT Office of Project Development, 2010 data



*This specially equipped road and pavement data collection vehicle travels every mile of the State Highway System each year, measuring pavement profile and roughness, and recording roadway and pavement images. The SDDOT uses this data to make project decisions.*

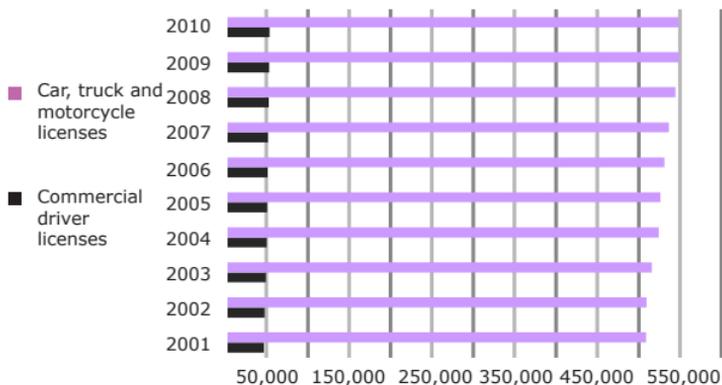
## History of S.D. Vehicle Registrations



\*Licenses may be purchased for more than one year. Figures represent licenses sold in the corresponding year.

Source: S.D. Dept. of Revenue, Division of Motor Vehicles

## More Drivers Are on Our Roads



Source: S.D. Dept. of Public Safety, Driver Licensing Program

## 95% of S.D. Intrastate Freight Moves by Truck

59% of freight moving within South Dakota is grain

| Tons in millions        | 2007        |      |          |      | 2010        |      |          |      |
|-------------------------|-------------|------|----------|------|-------------|------|----------|------|
|                         | Within S.D. |      | Outgoing |      | Within S.D. |      | Outgoing |      |
|                         | No.         | %    | No.      | %    | No.         | %    | No.      | %    |
| <b>Total</b>            | 67.1        | 100  | 33.1     | 100  | 84.4        | 100  | 51.4     | 100  |
| Truck                   | 63.6        | 94.8 | 24.4     | 73.6 | 80.6        | 95.5 | 39.0     | 75.9 |
| Multiple modes and mail | 0.04        | 0.1  | 1.6      | 4.7  | 0.06        | 0.1  | 2.5      | 4.8  |
| Rail                    | .01         | 0.0  | 7.1      | 21.5 | 0.01        | 0.0  | 9.8      | 19.0 |
| Air, Other, Unknown     | 3.4         | 5.1  | .08      | .02  | 3.7         | 4.4  | .16      | 0.3  |

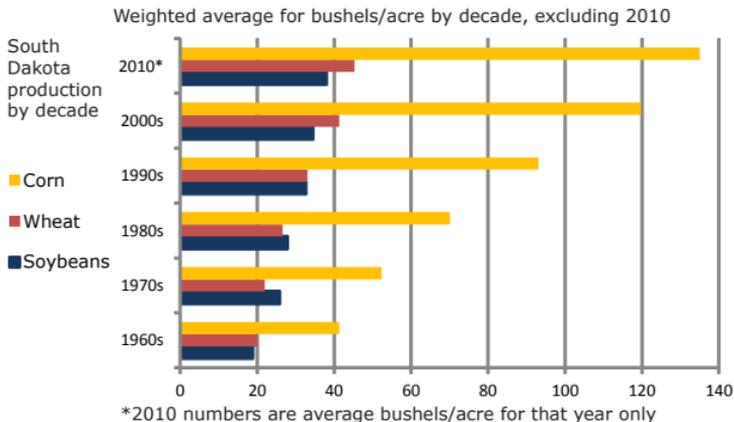
Source: Freight Analysis Framework, version 3.1.1, 2010, Office of Freight Management and Operations, Federal Highway Administration

## \$19 Billion in Freight Exported from State

| Value in millions of \$, as of 2007 |               |                          |               |
|-------------------------------------|---------------|--------------------------|---------------|
| Top South Dakota Exports            |               | Top South Dakota Imports |               |
| <b>Total Exports</b>                | <b>19,326</b> | <b>Total Imports</b>     | <b>21,690</b> |
| Cereal grains                       | 2,230         | Mixed freight            | 2,031         |
| Meat                                | 1,786         | Pharmaceuticals          | 1,726         |
| Electronics                         | 1,558         | Machinery                | 1,454         |
| Pharmaceuticals                     | 1,374         | Live animals             | 1,392         |
| All other categories                | 12,378        | All other categories     | 15,087        |

Source: Freight Analysis Framework, version 3.1.1, 2010, Office of Freight Management and Operations, Federal Highway Administration

## Bigger Crop Yields, Bigger Impact on Roads

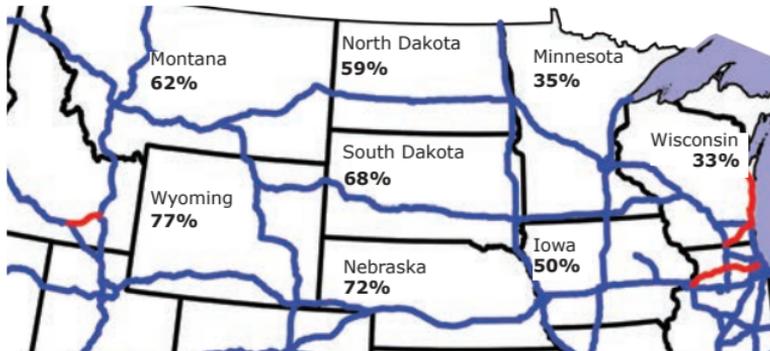


Source: South Dakota Field Office, National Agricultural Statistics Service, April 2011

## Upper Plains Highest in Truck Through Traffic

68% of S.D. truck tonnage originates, terminates in other states

Truck through traffic on Interstate and other highways in the Upper Plains states (map shows only Interstate routes)

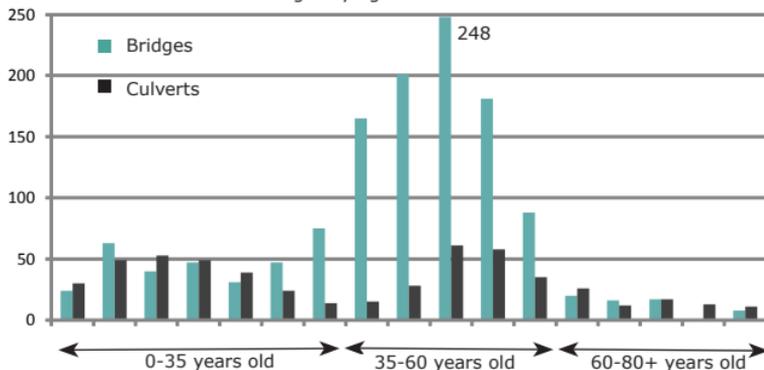


Source: Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework, Tonnage Origin-Destination Database, final 2002

## Many State Bridges Near End of Design Lives

*Older bridges were meant to last 50-75 years*

Distribution of state-owned bridges by age of structure



Source: SDDOT Office of Bridge Design, 2011 National Bridge Inspection Standards data



*Interstate Highway 90 traffic goes by as the supports for the new Marion Road interchange bridge deck take shape. South Dakota's newest interchange, completed in 2010, serves northwest Sioux Falls.*



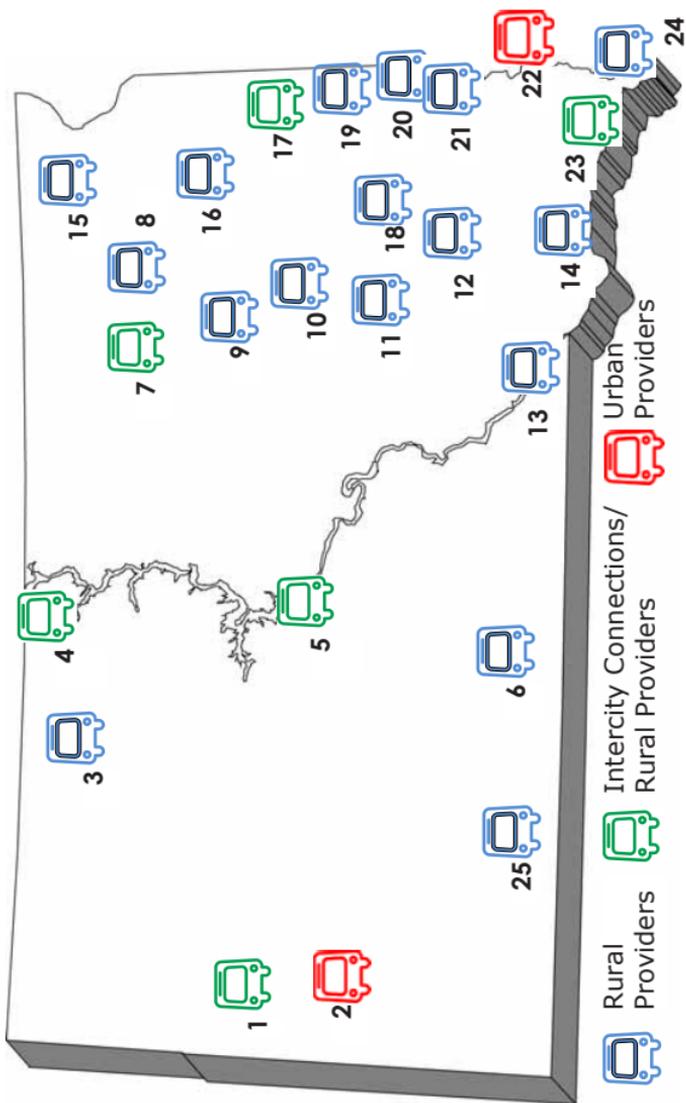
*Becky Barringer, Bridge Design Office Engineer II, and Randy Sauter, Rapid City Region Bridge Specialist, inspect concrete deterioration on S.D. Highway 40 east of Keystone. Repair of the deteriorated area on this bridge is part of a rehabilitation project in the Statewide Transportation Improvement Program.*

### SDDOT Maintains 1,803 Bridges

*Large box and pipe culverts make up 534 of this total*

- ✓ All eight bridges spanning the Missouri River are inspected every year.
- ✓ The majority of state-owned bridges are inspected once every two years, as required under the federal National Bridge Inspection Standards (NBIS).
- ✓ The Federal Highway Administration allows South Dakota to inspect certain low-risk state-owned structures, such as reinforced concrete box culverts and concrete rigid frame bridges, once every four years.
- ✓ The SDDOT checks all elements required by the NBIS, plus additional elements not required by the NBIS.

*In 2011, State-owned bridges and culverts had an average sufficiency rating of 90.8 on a scale of 1 to 100, where zero is unusable and 100 is excellent.*



## Public Transit System Headquarters in South Dakota

Source: SDDOT Office of Public Transit, 2011

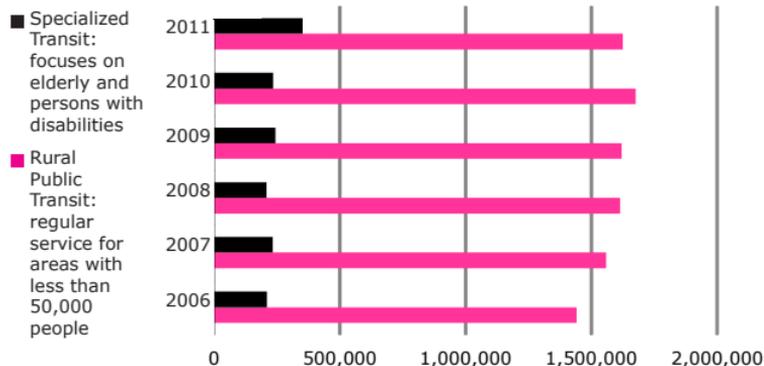
## Rural and Urban Transit Providers

1. **Prairie Hills Transit** serves Spearfish and Lawrence, Meade, Custer, Fall River and Butte counties. (605) 642-6613
2. The **Rapid Transit System** is an urban transit provider serving Rapid City. (605) 394-6631
3. **Arrow Transit** serves Bison, Faith and Lemmon. Special service also is available to Bismarck, Bowman, Dickinson and Hettinger, N.D., and Rapid City. (605) 374-3189
4. **Standing Rock Public Transportation Program** provides service on the Standing Rock Indian Reservation and to Mandan, N.D., and Mobridge. This agency also works with River Cities Public Transit to provide service from Bismarck, N.D., to Jefferson Lines Service in Vivian. (701) 854-8090 or <http://www.sittingbull.edu/aboutus/transportation>
5. **River Cities Public Transit** provides service in Pierre, Fort Pierre and the surrounding area. It also serves Gettysburg, Lower Brule, Harrold, Highmore and Vivian. As mentioned above, it works with the Standing Rock Public Transportation to connect passengers going to and from Bismarck, N.D. (605) 945-2360
6. **Rosebud Sioux Tribe Public Transportation** serves the Rosebud Indian Reservation and communities in Todd and Mellette counties. (605) 747-2718
7. **Aberdeen Ride Line** serves Aberdeen and Brown County. (605) 626-3333
8. **Groton Community Transit** serves the city of Groton. (605) 397-8650
9. **Spink County Public Transit** serves Redfield and Spink County, with special service from Redfield to Aberdeen and Watertown. (605) 472-1552
10. **People's Transit** serves Huron and Beadle County. (605) 353-0100
11. **Sanborn County Transit** serves Sanborn County. (605) 796-4513
12. **Palace Transit** serves Mitchell and Davison County. (605) 995-8440
13. **ROCS Transit** serves the counties of Aurora, Bon Homme, Brule, Charles Mix, Douglas, Gregory, Hanson and Turner. Also serving cities of Beresford, Bridgewater, Canton, Hudson, Wessington Springs, Winner and Tripp. 1-800-545-5329.
14. **Yankton Transit** serves the city of Yankton. (605) 665-4610
15. **Community Transit** provides daily service in Milbank, Sisseton, Webster, Eureka, Bowdle, Britton and Lennox (Lincoln County). Service in Marshall, Day, Roberts, Edmunds, Campbell and McPherson counties by request. (605) 698-7511
16. **Watertown Area Transit** serves Watertown and Codington County. (605) 882-5287.
17. **Brookings Area Transit Authority** serves Brookings and Brookings County. (605) 692-2222
18. **East Dakota Transit** serves Madison and Lake County. (605) 256-6518
19. **Inter-Lakes Community Action Transit** serves Deuel, Miner and Moody counties. (605) 256-6518
20. **Dell Rapids Transit** serves the city of Dell Rapids. (605) 256-6518
21. **Brandon City Transit** serves the city of Brandon. (605) 256-6518
22. **Sioux Falls Transit** is an urban transit provider serving Sioux Falls. (605) 367-7885
23. **Vermillion Public Transit** serves Vermillion and the surrounding area. (605) 624-7433
24. **Siouxland Regional Transit System** serves southern Union County, including Jefferson, Elk Point, North Sioux City and Dakota Dunes. (712) 279-6919
25. **Oglala Sioux Transit** serves the Pine Ridge Indian Reservation, which spans Shannon and Jackson counties. (605) 867-2332

*Many of these transit agencies offer service to additional communities and outlying areas upon request, and/or provide regular or requested service to regional and state population centers. All providers are rural public transit providers unless noted otherwise.*

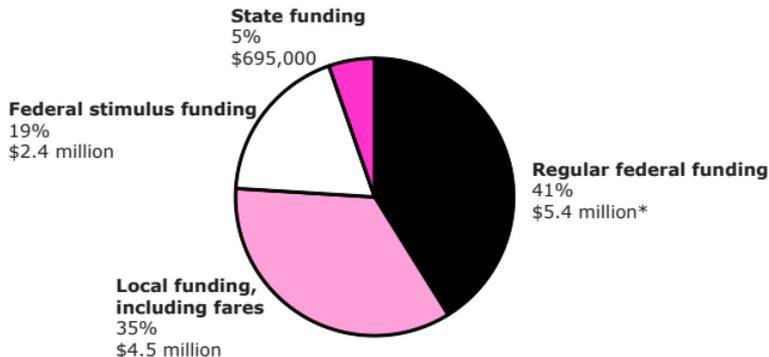
## South Dakota Public Transit Ridership Up

2011 is 6th consecutive year of increase in total ridership



Source: SDDOT Office of Public Transit, federal fiscal year (FFY) 2011 data

## FY 2011 Federal, State, Local Transit Funds



\*Includes carryover funding from previous years

Source: SDDOT Office of Public Transit, FFY 2011 data

## Aviation Adds \$792 Million to S.D. Economy

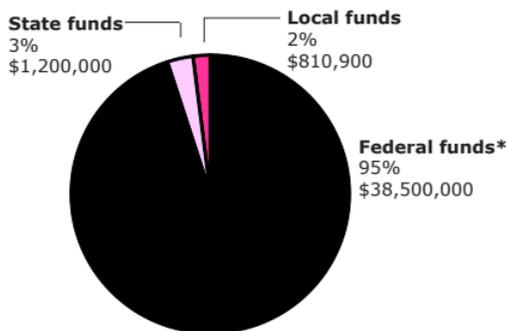
*Air service is vital to hunters coming for pheasant season*

|                 |               |
|-----------------|---------------|
| Pheasant season | \$83 million  |
| Sturgis Rally   | \$3.7 million |
| Ag spraying     | \$32 million  |



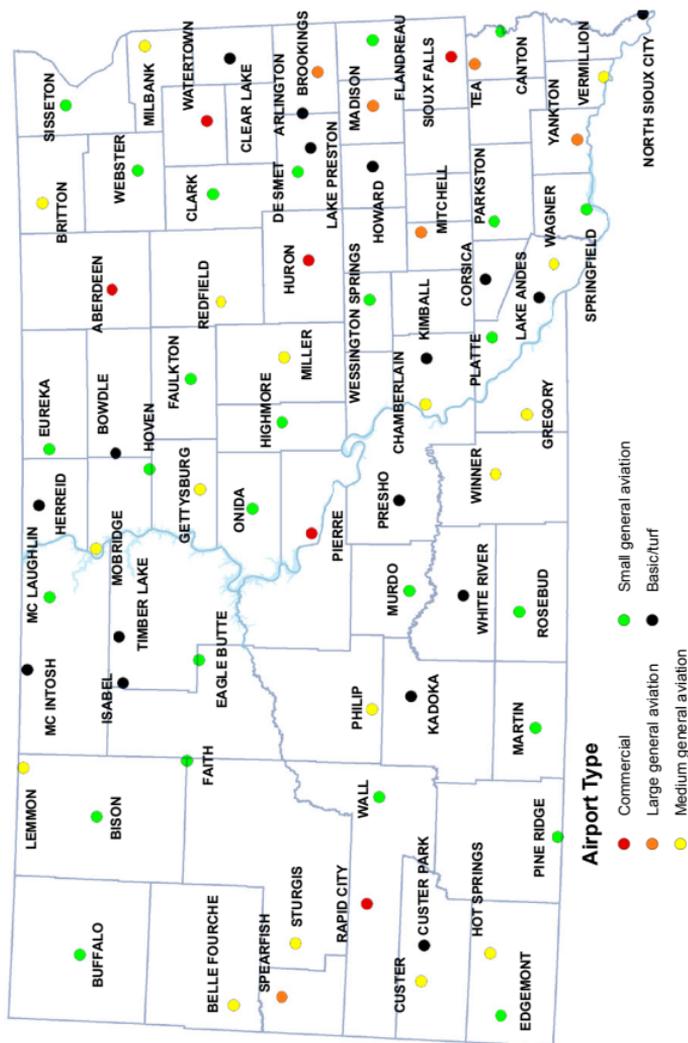
Source: SDDOT Office of Aeronautics study

## FY 2011 Airport Improvement Funding in S.D.

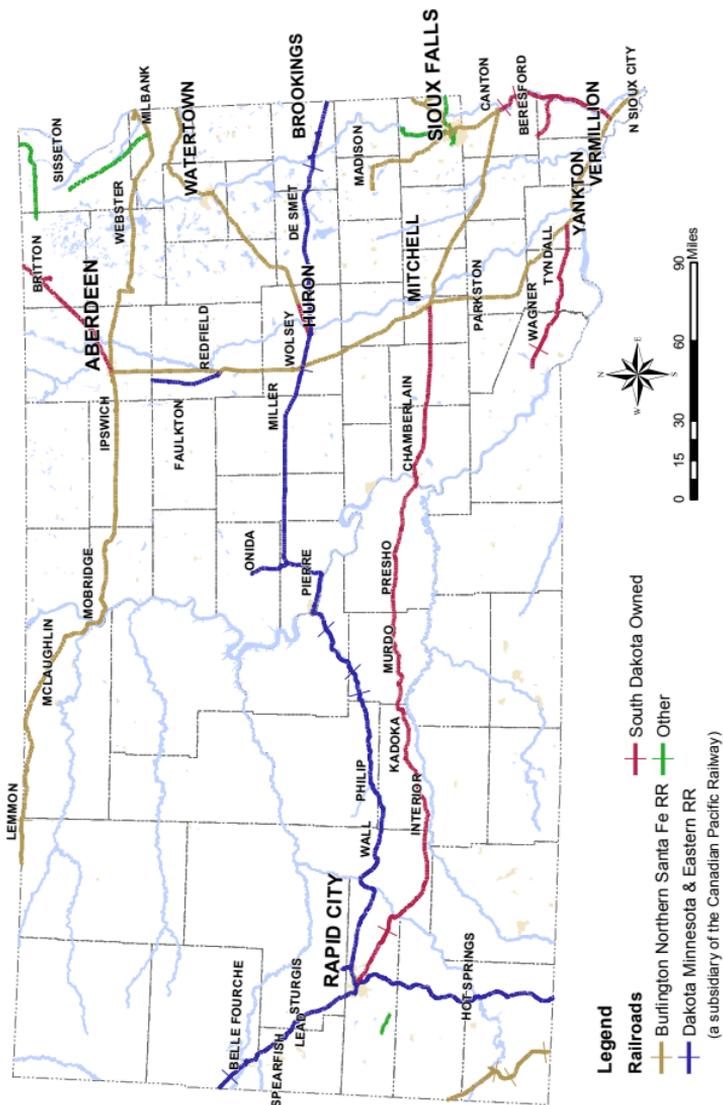


\*Federal Airport Improvement Program revenue comes from taxes on airline tickets and aviation fuels.

Source: SDDOT Office of Aeronautics, FFY 2011 data



Source: SDDOT Office of Aeronautics



## South Dakota Railroad Map

Source: SDDOT Office of Transportation Inventory Management

## Credits

Front cover: Larry Noem, Custer Area Project Technician, discusses the Fall River Road (U.S. Highway 18) lane expansion and reinforced concrete box culvert project with Heavy Constructors' Tony Shattuck, at the work site, Sept. 8, 2010. Cover photograph and photographs on pages 8, 14, 17, 27 (mowing), 39 and back cover by Julie Bolding, SDDOT Office of the Secretary.

Page 15 by Rick Mills, South Dakota State Railroad Museum collection.

Page 16 by the SDDOT Office of Aeronautics.

Page 26 by Pierre Area Office.

Crack-sealing photograph on p. 27 and I-90 photograph on p. 28 by Colleen Farley, Senior Secretary in the Winner Area.

State Highway 25 photograph, p. 28, by Aberdeen Area Engineer Phil Dwight.

Page 29 by SDDOT Pilot Ray Ondell.

Page 31 from the Project Development Office.

Page 35 by the Transportation Inventory Management Office.

Page 40 by Danaca Schettler, Bridge Design Office.

Hunting photograph on p. 44 from S.D. Dept. of Tourism.

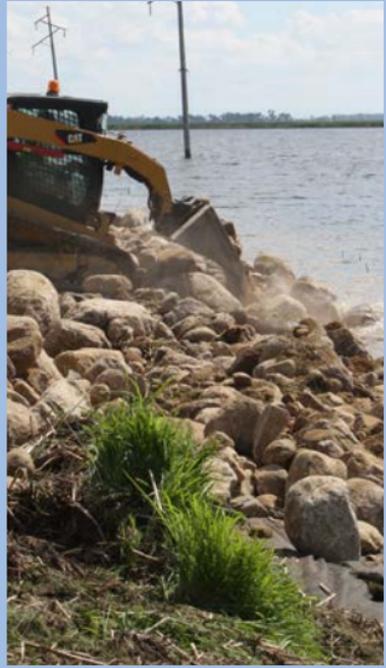
Maps by Kimberly Zerr, Transportation Inventory Management Office.

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This document also is available at: <http://www.sddot.com>.



*Top left and right: Lien Transportation workers place geotextile fabric and rock to protect the foundation of U.S. 12 from Rush Lake's encroaching waters. Bottom: Fill material for a submerged section of S.D. 10, west of Houghton, is compacted. The SDDOT tackled flood-related problems in 2010 and 2011.*