OGLALA SIOUX TRIBE 2016 TRIBAL TRANSPORTATION SAFETY PLAN



Developed through the Oglala Sioux Tribe Department of Transportation

Prepared by KLJ

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Attachment A Meeting Agenda

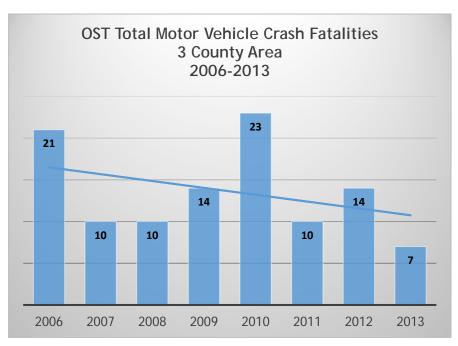
Attachment B Participants

Attachment C Crash Maps

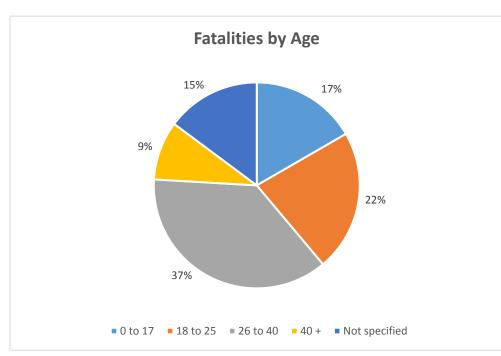


EXECUTIVE SUMMARY

From 2006 to 2013, there were nearly 1,300 traffic crashes recorded on the Pine Ridge Indian Reservation that resulted in 109 fatalities and nearly 700 injuries. While the data includes Bennett, Jackson and Oglala Lakota Counties, the vast majority of the severest crashes are occurring in Oglala Lakota County where many of the tribal community is centered. Of these totals, 77 of



the fatalities and 294 of the injuries occurred in Oglala Lakota County. This means that of the nearly 1300 traffic crashes recorded in the South Dakota Department of Public Safety (SDDPS) data, 371 resulted in injuries or fatalities in Oglala Lakota County.



The causes of these severe crashes are varied, but can be tied to a number of significant factors, including a high rate of impairment, low seat belt use and a significant number or younger drivers. The chart shows

that according to Oglala Sioux Tribe Department of Public Safety (OSTDPS), nearly 40% of fatalities are under 25 years of age, with nearly 20% being under 17.



In 2016 the Oglala Sioux Tribe (OST) undertook efforts to develop a Tribal Transportation Safety Plan that would identify existing safety efforts, transportation safety issues and then identify strategies for implementation that would address these issues. As part of the safety plan development, Tribal, state, federal and interested parties came together to review existing data, ongoing safety efforts and to identify new or continuing strategies to improve transportation safety in tribal communities. The strategies were prioritized around the 4E's (Education, Enforcement, Emergency response and Engineering) of safety. The 4E's are outlined below. Note that enforcement and emergency response have been combined and safety planning/other strategy has been included.

Education

• Develop a Reservation-Wide Transportation Education Program

Enforcement/EMS

- Provide Safety Enforcement or Tribal Highway Safety Officers
- Develop a Livestock Ordinance and Enforcement Team for Livestock Roundup
- Develop an Advanced 911 System
- Provide for Improved Communications Equipment
- Establish a Motor Carrier Safety Program

Engineering

- Install School Zone Signing with Flashing Beacons
- Participate in Safety Projects for Signing, Striping, and Rumble Strips
- Conduct Road Safety Audits on BIA, Tribal and County Roadways
- Develop Multi-Use Paths and Pathway Lighting Projects
- Construct Remote Weather Monitoring Stations

Safety Planning/Other

Develop a Social Media Page for Transportation Safety Reporting



BACKGROUND

The Pine Ridge Indian Reservation encompasses over 2 million acres (3,469 square miles) in the entirety of Oglala Lakota County, the southern half of Jackson County, and the northwest portion of Bennett County in southwest South Dakota, and is home to the Oglala Sioux Tribe (OST). The northern and western boundary is along the Oglala Lakota county border. The northern border is also defined by the White River in Jackson County. The southern boundary is the South Dakota/Nebraska state border. While most of the eastern border is not defined by natural land features, a portion of it follows the Jackson/Mellette county boundary.



Agriculture is the predominant industry on the reservation. Revenue from tourism and the Prairie Wind Casino generate funds for the Tribe. The major employers include the tribe itself, Oglala Lakota College, Indian Health Services, Bureau of Indian Affairs, and the Prairie Wind Casino. The Oglala Sioux Tribe Department of Transportation is responsible for maintaining nearly 520 miles of BIA roadways and over 1450 miles of Tribal roadways within the Pine Ridge Indian Reservation.

Available data has indicated that injury and fatality crash rates on reservations are higher than the rest of the United States. Federal programs are available to help resolve traffic related crashes and provide safer reservation transportation routes for Tribal members and the traveling public. Annually, through its Tribal Transportation Program (TTP), the Federal Highway Administration (FHWA) has made approximately \$9 million available through the Tribal Transportation Program Safety Funds (TTPSF), which are intended to be used for transportation related safety issues and needs on reservations throughout the country. Each year, tribes throughout the country are awarded funds to address these issues and needs through a competitive application process. In previous years, funds were awarded for safety planning, engineering,



enforcement and education improvements that prevent and reduce injuries and fatalities resulting from traffic related crashes. Starting with the 2016 Notice of Funding Availability, only safety planning and engineering projects will be funded. The categories and their respective funding goals are as follows:

Strategy	Funding %
Safety Planning	40%
Engineering	60%

FHWA has emphasized the development of a Tribal Transportation Safety Plan (TSP) as a first step in implementing a comprehensive transportation safety program. This is shown by the funding level for safety planning and the ranking criteria that requires any safety project application be linked to a transportation safety plan.

A Tribal TSP is a community based, multi-disciplinary approach to identify transportation safety issues and potential implementation strategies with the goal of improving transportation safety on Tribal Lands. The FHWA describes them as:

"Tribal Transportation Safety Plans are a tool used to identify and address transportation risk factors that have a potential of leading to serious injury or death. Safety Plans also organize the efforts of a variety of entities to more effectively reduce risk and can cover multiple transportation modes (roads, maritime, trails, air travel, and others). Safety plans may lead to implementation of a project or program, renewed efforts in an existing program, or further study of a roadway section (using an engineering study or Road Safety Audit).

A Tribal Safety Plan should not be developed with a focus on any one funding source. Instead, a Tribal Safety Plan should demonstrate the safety concerns in a community and the strategies that will be explored to implement the plan. To the greatest extent possible, the concerns demonstrated by a safety plan should be selected based on incident history (data). Data allows funding entities to understand the needs and may even compel the funding of the community's needs. Safety Plans can provide a forum for utilizing data sets that are not otherwise considered by funding agencies such as public testimony when formal crash data does not exist."

Benefits of developing transportation safety plans have been well documented and include the opportunity to leverage resources, work toward a common goal and consider all road users resulting in reduced deaths and injuries in Tribal and other communities.

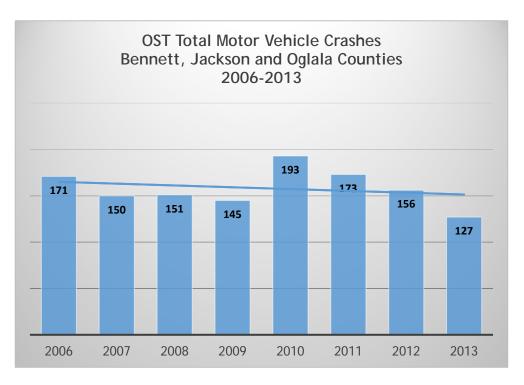


DATA ANALYSIS

One of the important factors in the development of a Tribal TSP is the analysis and utilization of available crash data in the identification of safety issues and development of corrective strategies. Data is also an important resource as Tribes apply for federal and state safety funding, as many require data to support the grant application. Available crash data shown in this plan was obtained from the SDDPS and was analyzed to reflect contributing factors to traffic-related deaths and injuries on the reservation. Data was also provided by the OSTDPS and was used to develop a more complete picture of traffic crashes and trends on the reservation.

Total Crashes

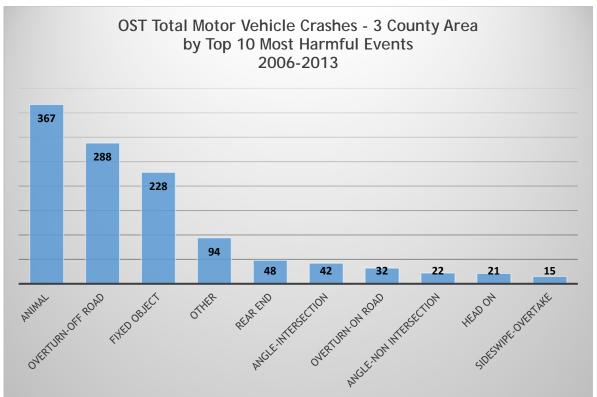
From 2006 until 2013 there were nearly 1,300 crashes on the Pine Ridge Indian Reservation according to SDDPS data. This area included all of Bennett, Jackson and Oglala Lakota Counties. Of these, 209 occurred in Bennett County, 783 in Jackson County and the remaining 274 were



in Oglala Lakota County. The chart shows the overall trend is in a slight downward direction, with 2013 having the fewest total crashes. The data that was provided by the OST DPS that is presented later in this report also shows the fewest crashes in 2013. Of these crashes they were nearly evenly split between daytime and nighttime.

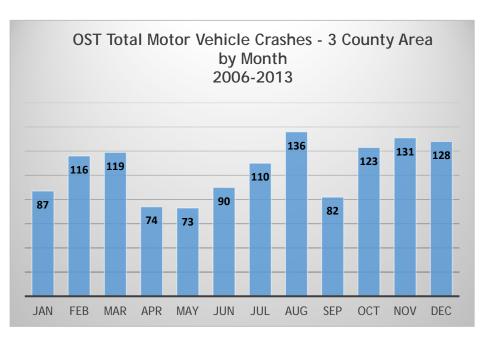
The total crashes for the time period from 2006 to 2013 were also analyzed and separated into the ten most common causes. Of these reoccurring events shown in the table, more than 60 percent occur in three categories; collisions with other animals, overturning off road and collisions with fixed objects. If the rear end and angle intersection crashes are combined, this would result in 90 total crashes, making intersection crashes significant as well.



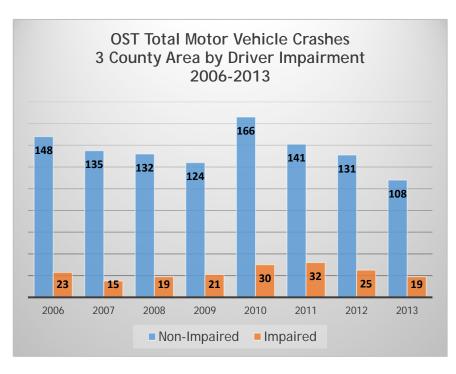


While pedestrian crashes do not show up in the top ten causes for overall crashes, it does show up as a significant cause in the Tribal Crash data.

Available data for crashes by month shows a spike in crashes during the late summer months when traffic is highest in the area due to increased tourist traffic. It then drops off during September and then spikes again during the winter months when driving conditions may be impaired by ice and snow.







The data also shows that for total crashes, driver impairment is nearly as significant of an issue as it is for fatal crashes. However, it still ranges from a low of 11% to a high of nearly 23%. Within this data, Oglala Lakota County accounts for over 40% of the overall crashes involving a driver who is impaired by either drugs or alcohol.

Injury Crashes

Mirroring the downward trend of total crashes, injury crashes on the Pine Ridge Indian Reservation have shown a slight downward trend since 2006. As seen in the chart, injury crashes have ranged from a low of 67 injuries in 2007 up to a high of 125 injuries in 2010. Overall, over the analysis period there were nearly 700 injuries from

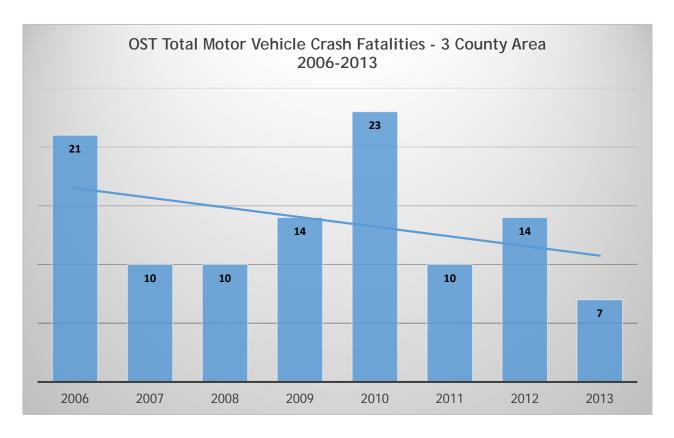


2006 through 2013. Unlike total crashes, where the majority were in Jackson County, for injuries Oglala Lakota County has the highest number of injuries with 294, followed by Jackson County with 242. The remaining 152 occurred in Bennett County. This suggests that while Oglala Lakota County is not having the highest number of crashes, it is having much more severe crashes.



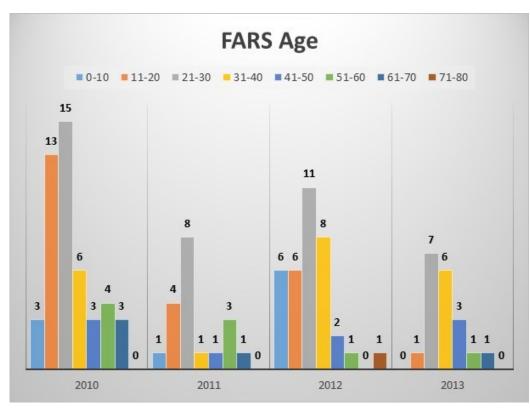
Fatal Crashes

From 2006 to 2013 there were 109 traffic fatalities resulting from automobile crashes within the three county area that encompasses the Pine Ridge Indian Reservation. Of these 109, a staggering 77, or 67% occurred within Oglala Lakota County. Jackson County, which had the highest number of overall crashes, accounted for 22, while Bennett County had 10 fatalities. While the graph shows that the annual number of fatalities exhibits a downward trend, the high number of fatalities in Oglala Lakota County identify a particular geographic area to target for safety countermeasures.



The Fatal Analysis and Reporting System (FARS) data that is available from the National Highway Traffic Safety Administration (NHTSA) was also analyzed and it showed 54 fatalities from 2010 to 2014. This data matches the SDDPS information and shows a significant rate of fatal crashes in the Oglala Sioux community. The FARS system also allows for additional analysis and crash causes and other pertinent information. The data shows that the main cause of fatal crashes was single vehicle, run off the road crashes. This is consistent with the trends for fatal crashes in rural areas of South Dakota, as shown in the South Dakota Motor Vehicle Traffic Crash Summary.





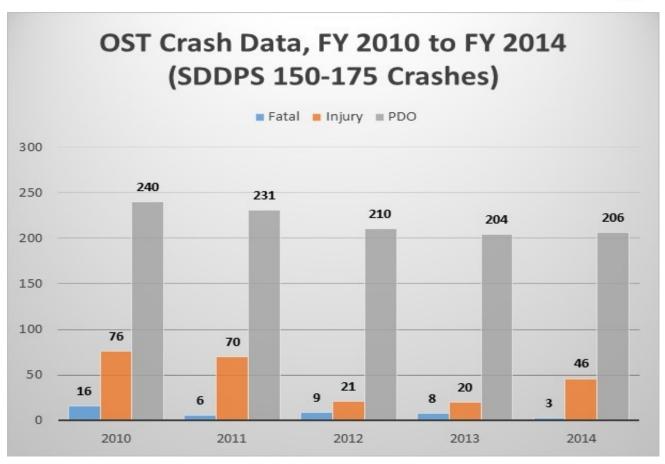
Younger drivers are consistently over represented in fatal crashes in all the states and tribal communities in the region. This is also true for the Pine Ridge Indian Reservation. with over 60% being under the age of 30. What is significant is

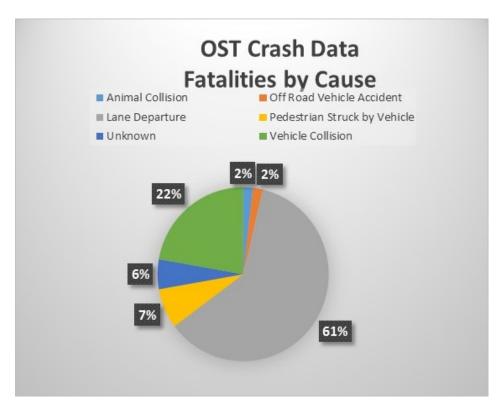
that the data for Pine Ridge Indian Reservation shows that nearly 30% are for the youngest age brackets that include those under 20. With this high rate of young, inexperienced drivers, education, enforcement and outreach programs may be needed. Additionally, many tribal communities have identified the lack of drivers education programs as an issue.

Oglala Sioux Tribe Department of Public Safety Data

The OSTDPS has been using the TRaCS system for crash data and criminal records. This allows for the collection and analysis of data to determine crash causes at the Tribal level. The Oglala Police provided data from 2010 through 2014 for inclusion in the development of this 2016 Transportation Safety Plan. The data shows that during this period there were over 1,350 total crashes, which is an average of 275 per year. The data from the SDDPS was only showing approximately 160 crashes per year. Although the OSTDPS is collecting electronic crash data, some of their data is not making it into the SDDPS databases. As with the SDDPS information, the total crashes are showing a slight downward trend. This can be seen in the chart on the next page. It is unclear at this point how many of the 233 injury crashes or 42 fatalities are include in the data provided by the state, but the high number injuries and fatalities recorded by both agencies exemplifies the need for better data sharing to ensure the true extent and nature of the traffic crash issues are identified.



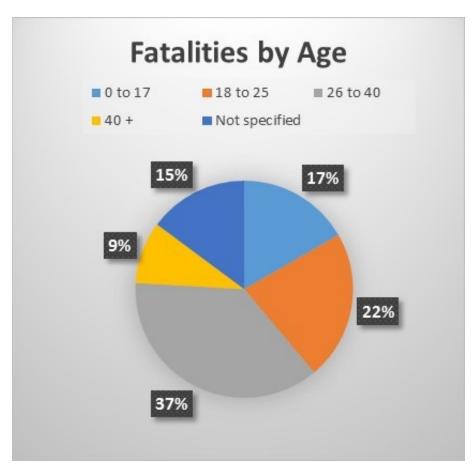




The OSTDPS Crash data, was consistent with other sources in crash causes. The vast majority of fatal crashes are caused by a single vehicle running off the road and, normally, overturning. The data shows that over 60% of the fatalities were this type of crash. One area that did show up in the OSTDPS data was that 7% of the fatalities were pedestrians.

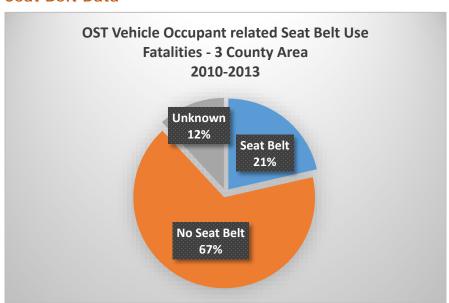


This data could be used to support the need for improved or separated pedestrian facilities.



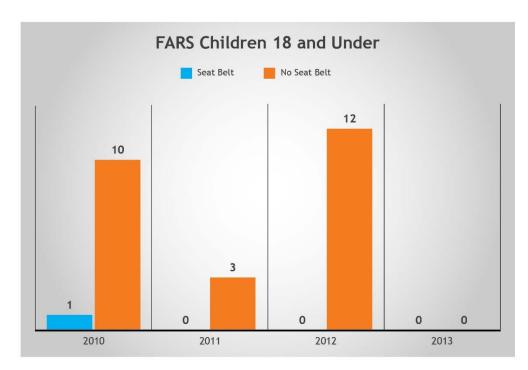
The age breakdowns are slightly different than what was provided for in the FARs data, but again shows that younger drivers are over represented in fatalities. This data shows that nearly 40% were under the age of 25 and that 76% were 40 and under. This data again would identify the need for targeted education and/or enforcement programs to address this need.

Seat Belt Data



While overall seat belt use data is not available, data for the most severe crashes from the OST DPS shows that from 2010 to 2013 only 21% of those killed in car crashes were using a seat belt or child seat. As with driver age, this data could be used to support increased education and seat belt initiatives.





Data from the FARS system also shows this issue of seat belt use as it relates to the younger drivers. From 2010 to 2013, of the 26 recorded fatalities, only one of them was using a seat belt or was restrained in a car set. This data points to the strong need

for seat belt education and enforcement programs that can work jointly to increase seat belt use.

2016 TRIBAL TRANSPORTATION SAFETY PLAN

This 2016 plan was developed using available data and the personal knowledge and expertise of the participants who attended the transportation safety planning meeting. The participants included state, federal and Tribal safety representatives from engineering, education, public safety, motor fuels and the OST Tribal Council. A list of participants is included in Attachment B.

The planning group reviewed the available crash data to develop a list of issues that are currently affecting transportation safety on the reservation. The group then identified the existing programs on the reservation and identified additional strategies that need to be implemented to address safety issues. The next three sections document these discussions and the outcomes.

ISSUES CAUSING CRASHES ON THE PINE RIDGE INDIAN RESERVATION

The crash data analysis, combined with the OSTDPS crash data and planning meeting participant observations, identify a number of transportation safety issues that are causing crashes, increasing crash severity or restricting complete data analysis. Those that are supported by the data included:

- Wild and domestic animal crashes
- Crashes with fixed objects
- Overturning crashes



- Alcohol impaired driving
- Lack of seat belt use
- Young drivers
- Pedestrian fatalities
- Intersection crashes

The planning meeting participants identified a number of other transportation safety issues based upon personal experience which they identified as causing crashes, increasing crash severity or are otherwise creating transportation safety concerns in the local communities. These include:

- Snow and ice removal.
- Distracted driving
- Need for intersection improvements (sight distance, lighting, adv warnings)
- Speeding
- Over weight trucks
- Transportation of hazardous materials
- ATV use
- Lack of penalties by the court system

EXISTING SAFETY PROGRAMS ON THE PINE RIDGE INDIAN RESERVATION

The planning meeting participants identified a number of safety projects and programs that the OST implemented to address transportation safety issues on the reservation. The following is a list of those projects or programs:

- The Tribe has constructed separated pathways to decrease vehicle/pedestrian interaction.
- The Tribe has received safety grants.
- Highway signing on the reservation has been updated.
- The Tribal police are using TraCS (Traffic and Criminal Software)
- Recently completed rumble strip projects on BIA 27 and 41.
- Reconstruction of Highway 18.
- The Tribe has performed seat belt education and provided child seats.
- Safety announcements and information have been featured on the local radio.
- Speed monitoring trailers are being used.
- The Tribe currently has traffic safety officers.
- Stricter penalties have been implemented for DUI's.
- The Tribe has a primary seat belt law.



IMPLEMENTATION STRATEGIES

The plan's main goal is to use a multi-disciplinary approach to identify safety strategies for implementation that can address the transportation safety issues on the Pine Ridge Indian Reservation. The strategies are intended to be implemented over the next several years and each have a Strategy Champion and Funding Opportunities identified. The strategies were developed as a comprehensive approach to safety, including engineering, enforcement, education and emergency management opportunities.

Education Strategies

• Develop a Reservation-Wide Transportation Safety Education Program



The Oglala Sioux Tribe does not currently have a Safety Coordinator, however, various Tribal Programs, law enforcement and other interested parties on the reservation provide education on transportation safety. One area that was particularly identified in the data analysis was education for younger drivers on behavioral issues such as seat belt use and impaired driving. With the high rate of crashes involving young drivers on the reservation, this will be a critical program in helping to reduce crashes.

This effort would use and build on national safety campaign themes on impaired driving, seat belt use, texting and driving and other transportation safety issues, by using local leaders or other notable Tribal Community members/leaders to promote safety themes. Many safety campaigns across the country have shown a greater rate of success when they are made culturally relevant to the Tribal audience and utilize local talent to deliver the safety message. The Safety Program has received past funding but it was not sufficient for larger cost-items such as Public Service Announcements, Arrive Alive Programs, billboards using local artistry, banners, videos, Tribal safety posters and other safety education materials that would be used in education programs, during Pow Wows and at other community events.

Strategy Champion: OST DOT.

Funding Opportunity: BIA Indian Highway Safety Program Funding.



Enforcement/EMS Strategies

• Provide Increased Safety Enforcement or Tribal Highway Safety Officers

Currently the Tribe does have dedicated highway safety officers providing traffic enforcement services. While regular officers assist with traffic enforcement, there continues to be a large number of fatalities and severe crashes on the reservation. To assist in education and enforcement within the reservation, it was felt that additional offices were needed, particularly during events. With inadequate staffing during events, and



the demands on time that criminal activities require, highway safety enforcement becomes a lower priority by necessity. To elevate the level of highway safety enforcement during events and to elevate normal traffic enforcement, the Tribe should pursue obtaining at least one or possibly two additional highway safety enforcement officers. If it is determined by law enforcement that the highest need is only during the summer months and if part time assistance is available, these could be seasonal positions.

Strategy Champion: OSTDPS.

Funding Opportunity: BIA Indian Highway Safety Program Funding.

 <u>Develop a Livestock Ordinance and Enforcement Team for Livestock</u> <u>Roundup</u>

With the large number of domestic animal crashes on the Pine Ridge Reservation, there is a need for a livestock ordinance that allows for stray animals to be removed from highway rights of way. Other Tribes, such as the Blackfeet in Montana have passed aggressive ordinances that allow for the seizure and eventual sale of habitually loose animals. This could be implemented jointly with



increased fencing programs that could assist in keeping livestock off of roadways.

Strategy Champion: OST DOT, OST DPS.

Funding Opportunity: TTPSF and BIA Indian Highway Safety Program.



• Develop an Enhanced 911 System

Currently the Tribe does not have an enhanced 911 system, which means that when a call is received by a 911 operator, location information is unavailable within the systems. This requires the operator to get more detailed location information prior to being able to dispatch an emergency vehicle. This is also further complicated in that many roads may be known by a local or nickname that is not easily identifiable by either the dispatcher or responder. To remedy this situation, the system within the reservation should be upgraded to include location information for quicker response times. The BIA Inventory includes strip maps that may be able to be utilized as part of this effort.

Strategy Champion: OST DPS, OST DOT and EMS Agencies.

Funding Opportunity: TTPS Safety Funding and BIA Indian Highway Safety Program Funding.

Provide for Improved Communications Equipment

The Pine Ridge Indian Reservation encompasses over two million acres with various types of terrain, including rugged areas along the Bad Lands National Park. With the large land area, variety of enforcement and EMS agencies and terrain challenges, effective communication is critical during emergencies and daily activities. Currently, there is limited communication coverage on portions of the reservation and a need exists to upgrade repeaters, radios and other hardware to ensure adequate communications during crashes, emergencies or weather related events. Initially, this task may include development of a communications plan that specifically identifies all the needs.

Strategy Champion: OST DOT, OST DPS and EMS Agencies.

Funding Opportunity: BIA Indian Highway Safety Program.



Establish a Motor Carrier Safety (MCS) Program



With the presence of US Highway 18 running through the Pine Ridge Indian Reservation, there is a substantial presence of large commercial vehicles. Currently there are no weigh stations within the reservation and concern exists with overweight and/or unsafe vehicles operating on the roadways. Other tribes in the region have established motor

carrier enforcement programs that have the ability to regulate trucking activities and use portable scales to check vehicle weights, most notably the Three Affiliated Tribes in the North Dakota Oil Fields. The Oglala Sioux Tribe does not currently have a need for as extensive of a program, but it should start taking steps to develop a MCS program. This program could start fairly modestly with implementing ordinances that can be used to regulate truck weights, and obtain funding for an MCS Officer and acquisition of portable scales that could be used on the reservation. If portable scales are purchased, consideration should be given to getting similar equipment to what the State of South Dakota uses to assist with training and calibration. Other tribes have received grants to assist in developing programs such as this.

Strategy Champion: OST DOT, OST DPS and SDDOT.

Funding Opportunity: TTPSF and BIA Indian Highway Safety Program.

Engineering Strategies

• Install School Zone Signing with Flashing Beacons

One area identified as a need was for the installation or upgrading of school zone signing and adding flashing beacons, crosswalks and other traffic control. The OSTDPS does utilize the speed monitoring trailers at times in school zones, but they are only used there for short durations. With the large number of young driver crashes on the reservation and with 7% of the fatal crashes that have been reported by



the Tribe being pedestrian crashes, the upgrading of these systems could help to reduce serious crashes.

Strategy Champion: OST DOT.

Funding Opportunity: TTPSF, TTP Funding or SDDOT Funds.



• Participate in Safety Projects for Signing, Striping, and Rumble Strips

The South Dakota Department of Transportation has initiated a statewide program to replace and upgrade signing on county, tribal and other rural roadways within the state. They are currently working on paved roadways and will be working on a county by county bases to improve and replace signing on gravel roadways. To ensure that BIA and Tribal Routes are included in the upgrades, the Tribe should coordinate with Bennett, Jackson and Oglala Lakota Counties. The SDDOT also has a statewide effort to assist in the installation of rumble strips where sufficient width and structure exist for their installation. While no state funding is available for striping of BIA or Tribal roadways, TTP funds are available for this use. With



the large percentage of run off the road crashes, all of these counter measures would be important tools in reducing crashes.

Strategy Champion: OST DOT, Counties and SDDOT.

Funding Opportunity: SDDOT, TTPSF and TTP Funding.

Conduct Road Safety Audits (RSA) on BIA, Tribal and County Roadways

RSA's have been an important tool for many Tribes and one that the OST DOT could utilize. RSA's provide an opportunity to bring traffic and safety expertise to assess safety concerns of routes where there are high numbers of crashes or where they have specific concerns. The goal of these RSA's is to identify safety issues and then develop specific transportation safety improvements that may include signing, lighting, striping, pathways, intersection improvement and other activities to address issues.

To continue to build on the safety improvement and the use of RSA's, the Tribe should pursue funding to accomplish RSA's on the BIA, Tribal and county roadways within the Reservation.

Strategy Champion: OST DOT.

Funding Opportunity: TTPSF.



Develop Multi-Use Paths and Pathway Lighting Projects



There are locations within the Pine Ridge Indian Reservation where there is pedestrian/bike traffic and the Tribe has identified specific need for pathways. The locations included Kyle, Manderson and BIA 407 to Pine Ridge. While the SDDPS crash

data does not identify pedestrian or bike as a major crash cause, the data provided by the OSTDPS shows that pedestrian crashes are a top 10 crash cause and have accounted for seven percent of all fatalities from 2010 to 2014. Multiuse pathways need to be considered to separate pedestrians from vehicle traffic. The need for these pathways has been present for some time and has increased as new Tribal housing has been developed and there is a need for access to Tribal communities and schools.



Lighting should be considered along urban or other pathways as appropriate to increase pedestrian visibility, provide for traffic calming and potentially increase security. Solar powered and/or LED lighting could be used to reduce the cost for providing power and the need for continual power usage. An example of a solar powered lighting system is shown and several companies produce such systems.



Kyle Pathway

The town of Kyle is located along BIA 2 in the central portion of the Pine Ridge Indian Reservation. While there are some pedestrian facilities, they are not continuous, in poor shape and not ADA compliant. This project would develop a separated pathway, with cross walks and pedestrian lighting through town to connect tribal housing with the school, Oglala Lakota College, hospital, bank and the local store. The project would be approximately .90 miles long and would cost an estimated \$648,000 including signing, markings, lighting, design and construction.



Strategy Champion: OST DOT.

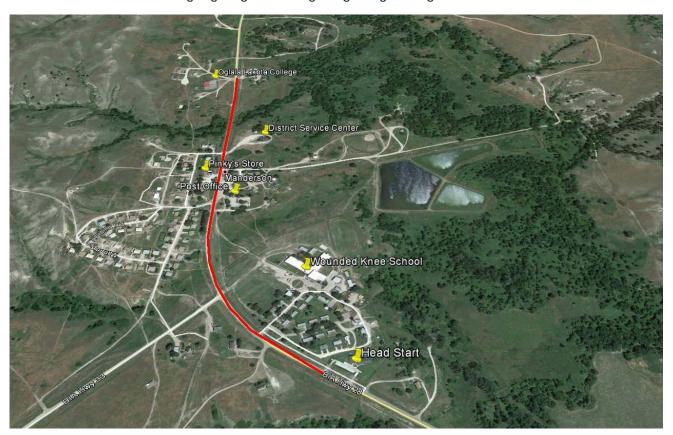
Funding Opportunity: TTPSF, TTP Funding or SDDOT Transportation

Alternatives Funding.



Manderson Pathway

The community of Manderson is located along BIA 28 just to the north of Wounded Knee on the Pine Ridge Indian Reservation. As with many other tribal communities there is a lot of pedestrian traffic in the area and little or no facilities for them to use. This project would develop a separated pathway with cross walks and pedestrian lighting that would run through town to connect tribal housing with the school, Oglala Lakota College, Head Start Program and commercial facilities in town. As there is housing and facilities located on both sides of BIA 28, crosswalks and associated signage would also be needed. The project would be approximately .75 miles long and would cost an estimated \$540,000 including signing, markings, lighting, design and construction.



Strategy Champion: OST DOT.

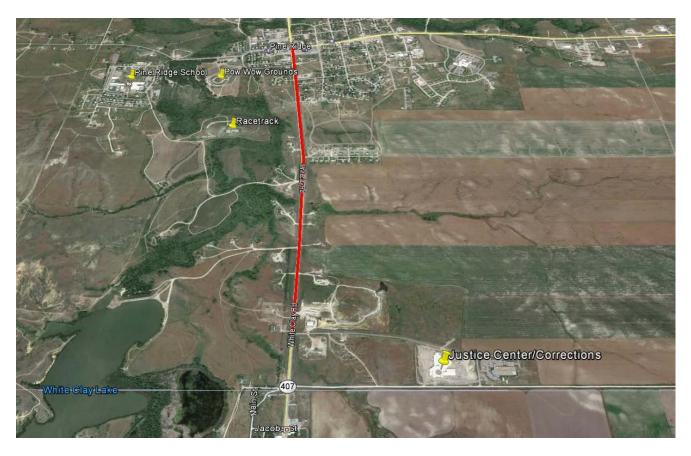
Funding Opportunity: TTPSF, TTP Funding or SDDOT Transportation

Alternatives Funding.



BIA 407 Pathway

A number of pedestrian facilities have been improved in recent years in the town of Pine Ridge, particularly along US 18. However, there are no facilities extending south of town along route 407. This has been identified as a need to connect housing and tribal facilities south of town with the services in the downtown area, and also allow for connection to the pedestrian facilities in that area. Additionally, the Justice Center is located south of town and includes the corrections facility. When individuals are released, many of them walk back to town, adding to pedestrian use of the roadway. The project would construct a separated pathway and be approximately 1.69 miles long and would cost an estimated \$815,000, including signing, markings, design and construction.



Strategy Champion: OST DOT.

Funding Opportunity: TTPSF, TTP Funding or SDDOT Transportation

Alternatives Funding.



Provide Remote Weather Monitoring Stations

Many transportation agencies utilize remote weather information systems (RWIS) sites to provide information to both the roadway user and to the department of transportation. These sites can monitor weather conditions, roadway conditions, site specific forecasts and provide video imagery at the location. With the large land



area, rural nature and at times hazardous driving conditions, RWIS sites could be utilized at strategic locations to improve roadway safety by providing images and current data to roadway users and data to improve services by the OST DOT.

Strategy Champion: OST DOT.

Funding Opportunity: TTPSF, TTP Funding.

Safety Planning and Other Strategies

Develop a Social Media Page for Safety Reporting

Social Media is an area that has been underutilized in the Oglala Sioux community in the transportation area. The Tribe would like to develop a platform that would allow for the sharing of important information such as road closures, road construction, emergency notifications, RWIS, maps and other data to users in the area. It is intended that they social media page would also be set up to allow users to send



in safety concerns such as crashes, missing or damaged signs, roadway concerns and other desired feed back to the transportation and safety programs. While the platforms for outreach exist, assistance with development of a professional, user friendly and reliable system is needed.

Strategy Champion: OST DOT and OST DPS.

Funding Opportunity: BIA Indian Highway Safety Program and SD DPS.

OGLALA SIOUX TRIBE 2016 TRIBAL TRANSPORTATION SAFETY PLAN



ATTACHMENT A

Meeting Agendas



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ATTACHMENT A

OGLALA SIOUX TRIBAL TRANSPORTATION SAFETY PLAN 2016

Meeting Agenda, February 3, 2016

10:00 a.m. Welcome and Introductions

10:15 a.m. Background and Overview

Discussion of Tribal Safety Plans, including need for

Presentation of Crash and Safety Data Questions and Discussion of Data

11:00 a.m. Oglala Sioux Tribe existing safety approaches (this is any practice the

Tribe is utilizing to address transportation safety i.e. education to public,

crash reporting/processes, EMS or engineering projects)

11:30 a.m. Development of Activities for the Oglala Sioux Tribal Transportation

Safety Plan:

Identification/Discussion of Safety issues and concerns

Safety approaches to include Safety approaches to develop Integration with other safety plans

12:00 Lunch (provided)

1:00 p.m. Finalize Development of Safety Activities to include in Plan

Sort by 4E's

Identification of Implementation Steps

Identification of Champions for Specific Elements

Identification of Potential Funding Sources

2:15 p.m. Break

2:30 p.m. Questions/Discussion of Process or other Items

3:00 p.m. Wrap up and/or Site Visit to any Locations

OGLALA SIOUX TRIBE 2016 TRIBAL TRANSPORTATION SAFETY PLAN



ATTACHMENT B

Participants





ATTACHMENT B

OGLALA SIOUX TRIBAL TRANSPORTATION SAFETY PLAN

Meeting Participants

Name	Representing	Phone Number	Email Address
Craig Genzlinger	KLJ	406-461-2222	craig.genzlinger@kljeng.com
Dave Kelly	OST DOT	605-867-5376	ostroads@hotmail.com
Ron Williams	KLJ	605-721-5553	Ron.williams@kljeng.com
Dustin Witt	SDDOT	605-773-5361	Dustin.will@state.sd.us
Tim Wicks	SDDOT	605-673-4948	Tim.wicks@state.sd.us
Troy Ferguson	OSTDPS	605-867-8130	tferguson@ostdps.org
Justin Porter	OST Motor Fuels	605-867-2288	Motorfuels@oglala.org
Mark Hoines	FHWA	605-776-1010	mark.hoines@dot.gov
June Hansen	SDDOT	605-773-3540	june.hansen@state.sd.us
James Cross	OST Council	605-454-4693	Jamescross0810@hotmail.com

OGLALA SIOUX TRIBE 2016 TRIBAL TRANSPORTATION SAFETY PLAN



ATTACHMENT C
CRASH MAPS



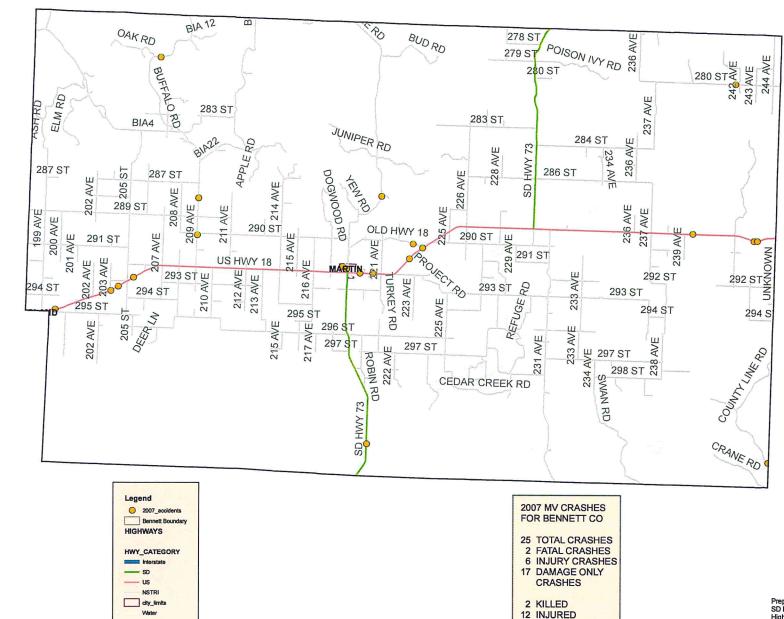
BENNETT CO - 2006 REPORTABLE MOTOR VEHICLE CRASHES





Prepared by: Dept of Public Safety Highway Safety / Accident Records March 15, 2007

BENNETT CO - 2007 REPORTABLE MOTOR VEHICLE CRASHES





Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 9, 2008

BENNETT CO - 2008 REPORTABLE MOTOR VEHICLE CRASHES





Legend

2008_MV_Crashes HIGHWAYS
BY BY

AccidentSeverity HWY_CATEGORY

FATAL CRASHES Interstate

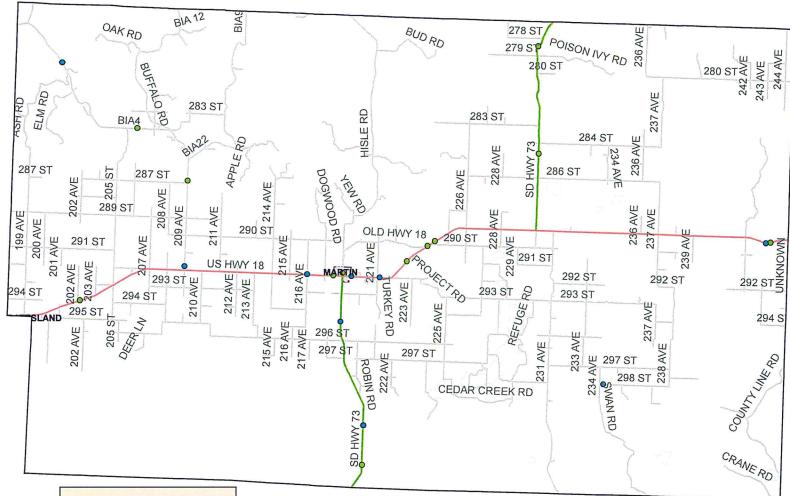
INJURY CRASHES SD
PDO CRASHES US
Bennett Boundary NSTRI
ity_limits
Water

2008 MV CRASHES FOR BENNETT CO

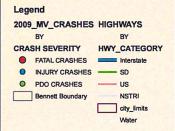
- 35 TOTAL CRASHES
- 1 FATAL CRASHES
- 13 INJURY CRASHES
- 21 PROPERTY DAMAGE ONLY CRASHES
- 1 KILLED
- 16 INJURED

Prepared by: SD Dept of Public Safety Highway Safety / Accident Records March 23, 2009

BENNETT CO - 2009 REPORTABLE MOTOR VEHICLE CRASHES









2009 MV CRASHES FOR BENNETT CO

- 21 TOTAL CRASHES
- 0 FATAL CRASHES
- 9 INJURY CRASHES 12 PROPERTY DAMAGE ONLY CRASHES
- 0 KILLED
- 11 INJURED

Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 28, 2010

BENNETT CO - 2010 REPORTABLE MOTOR VEHICLE CRASHES





Legend Bennett Boundary 2010_MV_Crashes HWY_CATEGORY **CRASH SEVERITY** FATAL CRASHES INJURY CRASHES O PDO CRASHES NSTRI city_limits Water

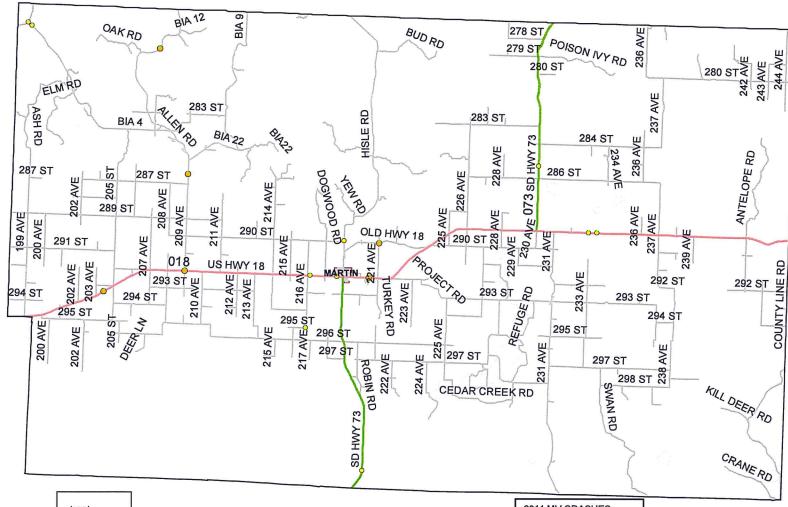


SOUTH DAKOTA ACCIDENT RECORDS 2010 MV CRASHES FOR BENNETT CO

- 18 TOTAL CRASHES
- 2 FATAL CRASHES
- 8 INJURY CRASHES 8 PROPERTY DAMAGE **ONLY CRASHES**
- 2 KILLED
- 29 INJURED

SD Dept of Public Safety Highway Safety / Accident Records March 24, 2011

BENNETT CO - 2011 REPORTABLE MOTOR VEHICLE CRASHES









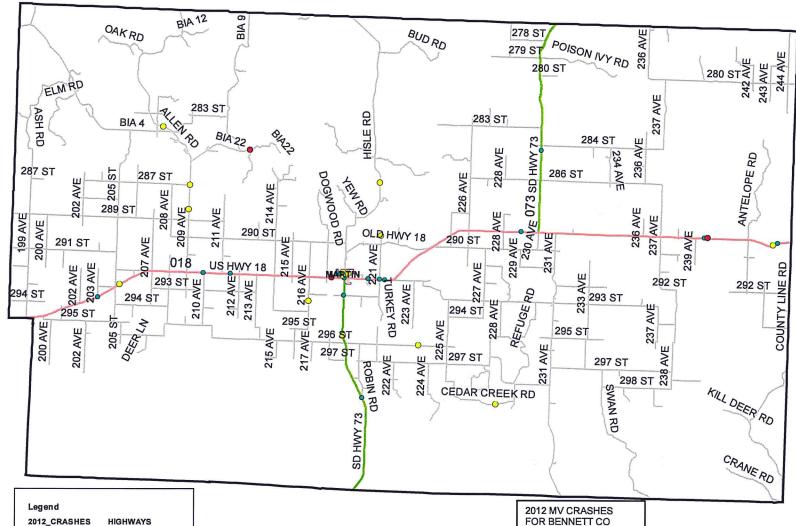
ACCIDENT RECORDS

2011 MV CRASHES FOR BENNETT CO

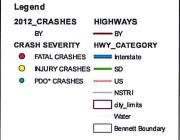
- 16 TOTAL CRASHES
- 0 FATAL CRASHES 6 INJURY CRASHES
- 10 PDO* CRASHES
- 0 KILLED 16 INJURED

PDO* - PROPERTY DAMAGE ONLY Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 19, 2012

BENNETT CO - 2012 REPORTABLE MOTOR VEHICLE CRASHES







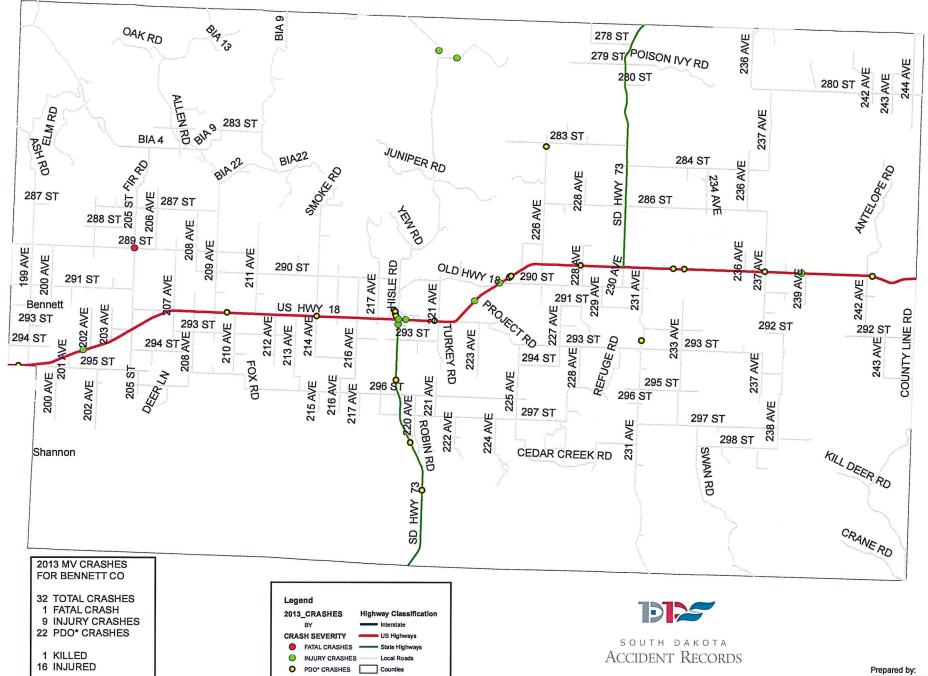


SOUTH DAKOTA ACCIDENT RECORDS

- 35 TOTAL CRASHES 3 FATAL CRASHES
- 14 INJURY CRASHES 18 PDO* CRASHES
- 4 KILLED 31 INJURED
- PDO* PROPERTY DAMAGE ONLY

Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 4, 2013

BENNETT CO - 2013 STATE REPORTABLE MOTOR VEHICLE CRASHES



PDO* - PROPERTY

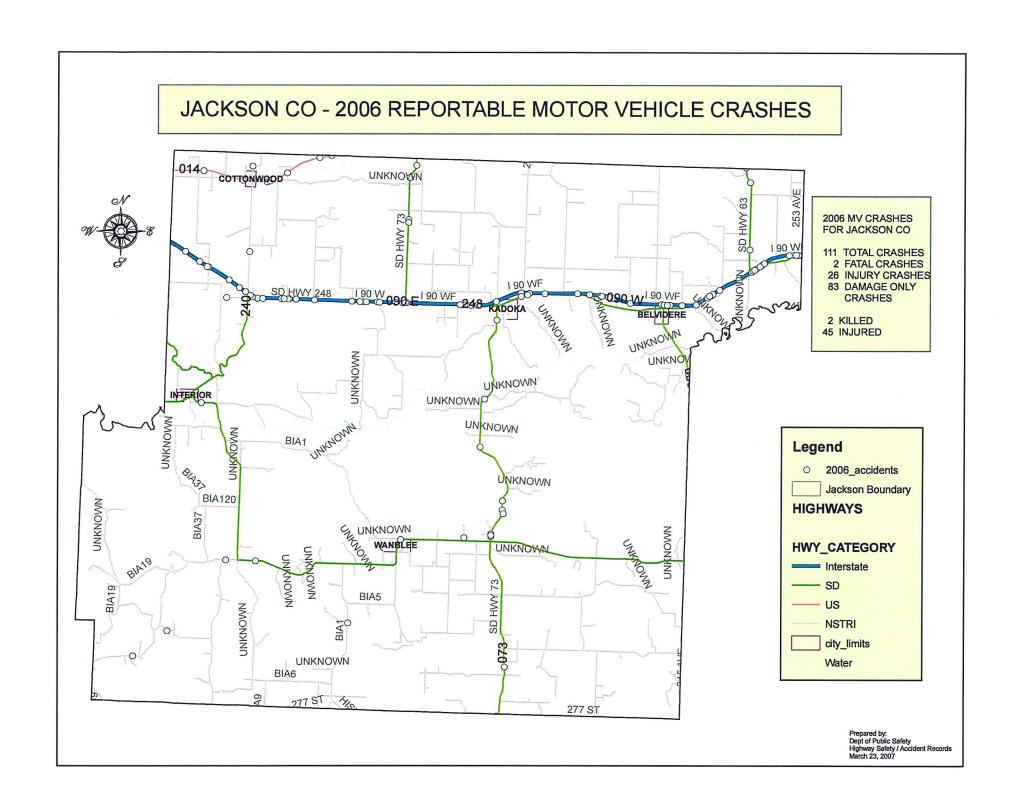
DAMAGE ONLY

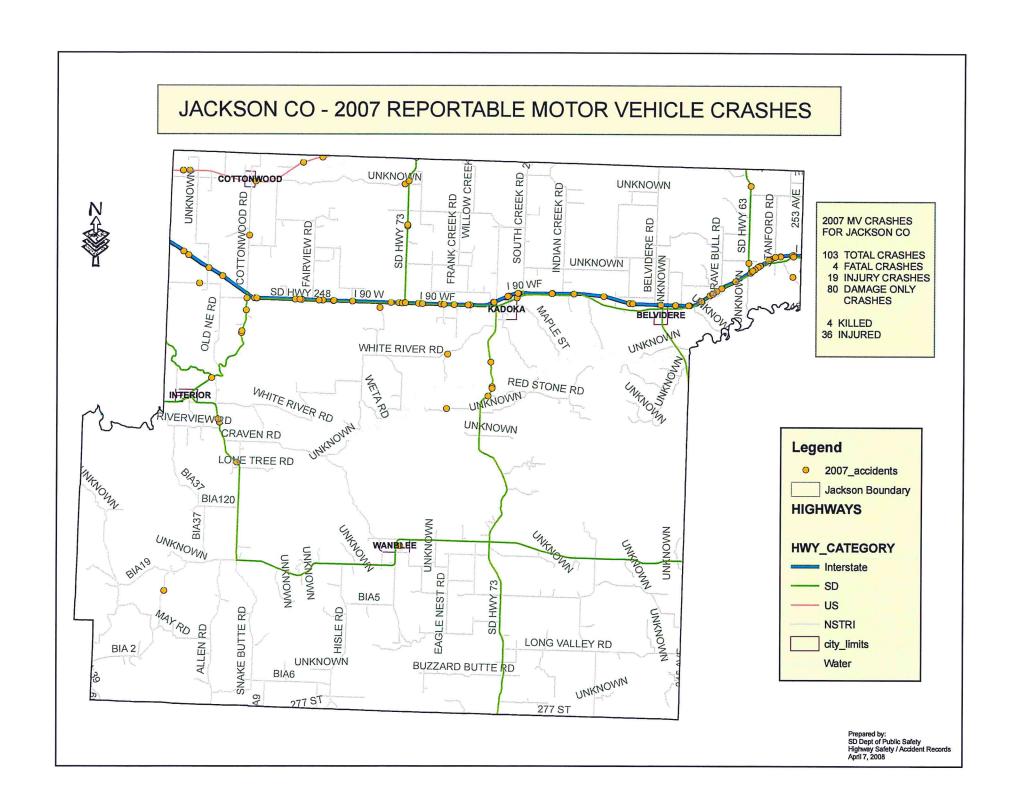
The number of crashes are subject to change

as data is retrieved from a live database.



Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 16, 2014

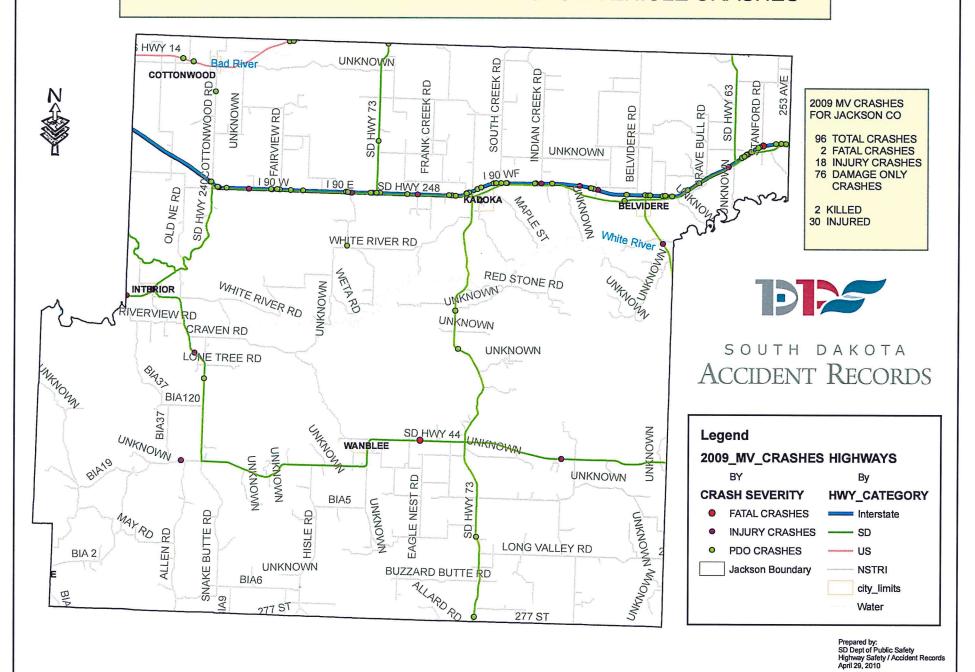




JACKSON CO - 2008 REPORTABLE MOTOR VEHICLE CRASHES



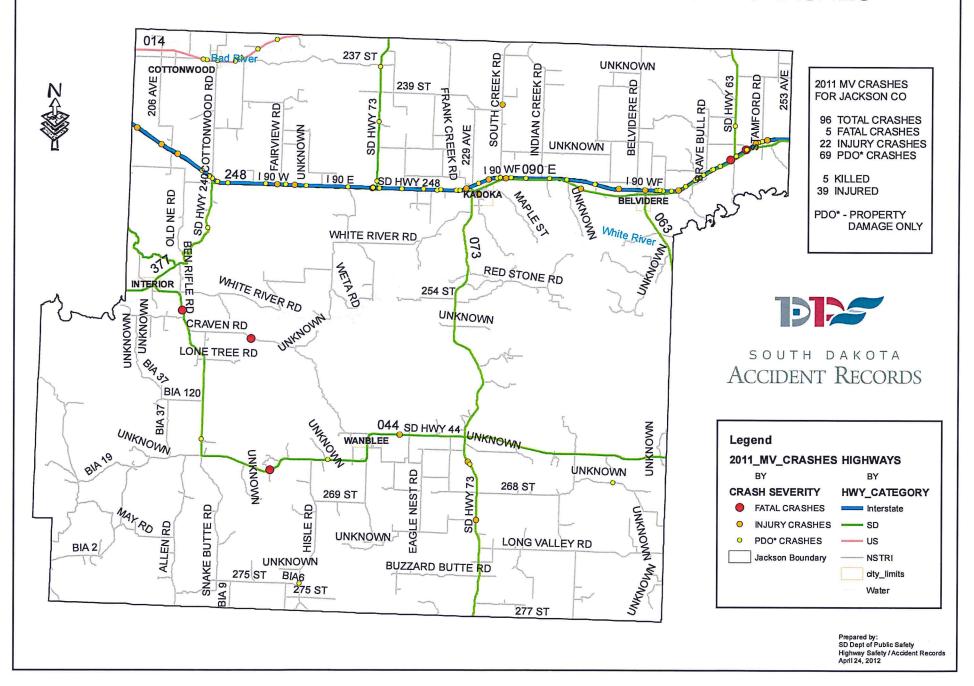
JACKSON CO - 2009 REPORTABLE MOTOR VEHICLE CRASHES



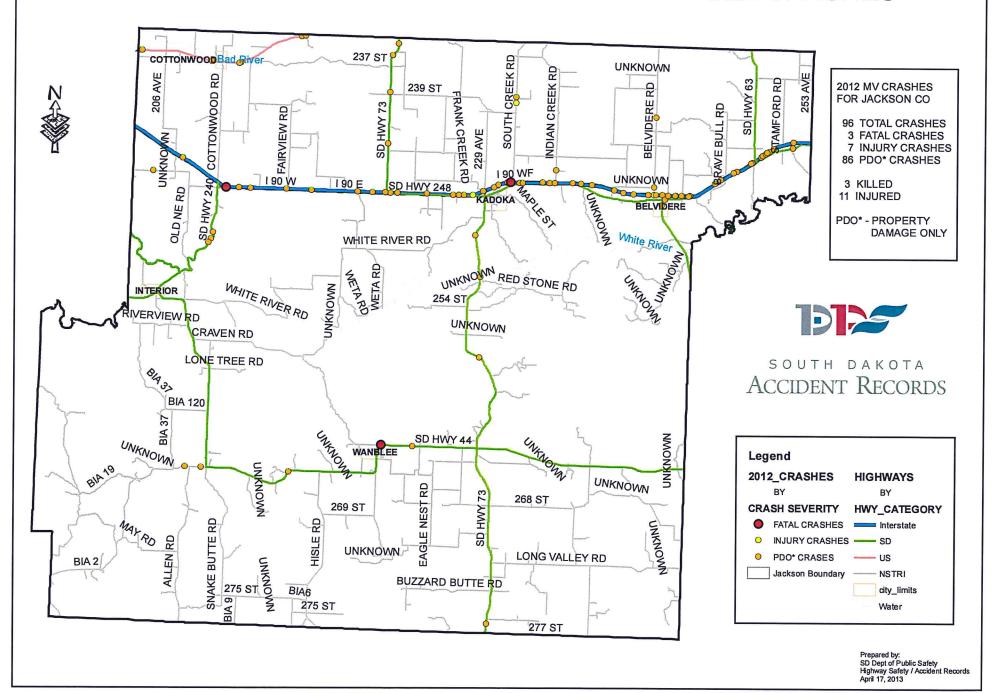
JACKSON CO - 2010 REPORTABLE MOTOR VEHICLE CRASHES



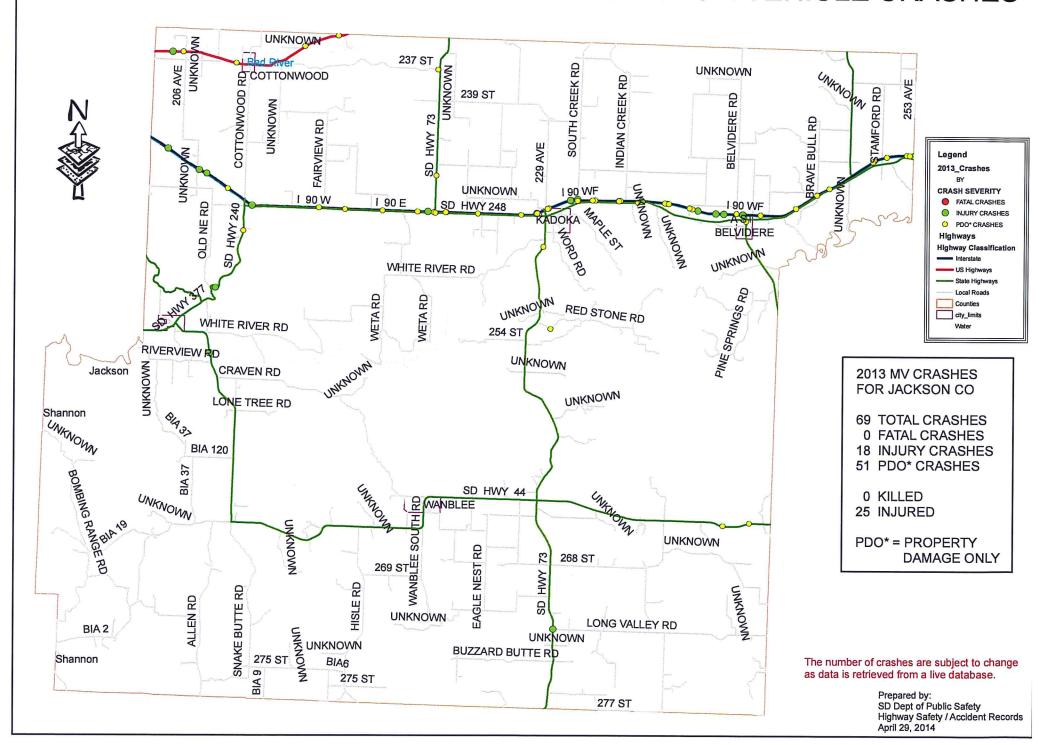
JACKSON CO - 2011 REPORTABLE MOTOR VEHICLE CRASHES

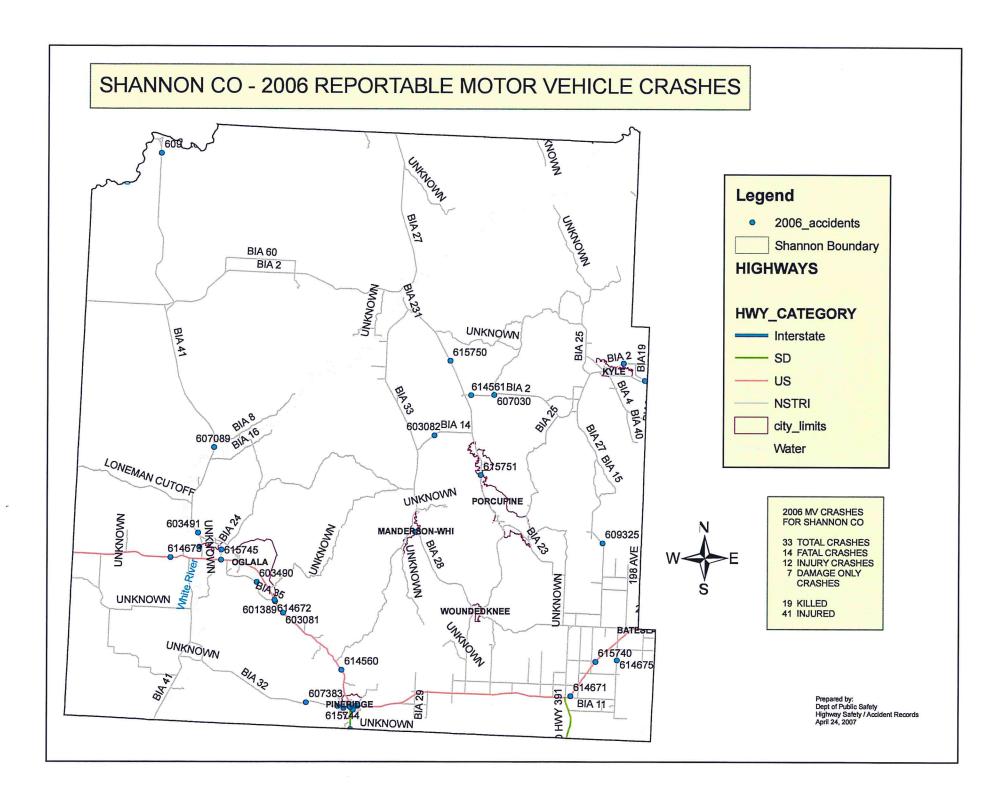


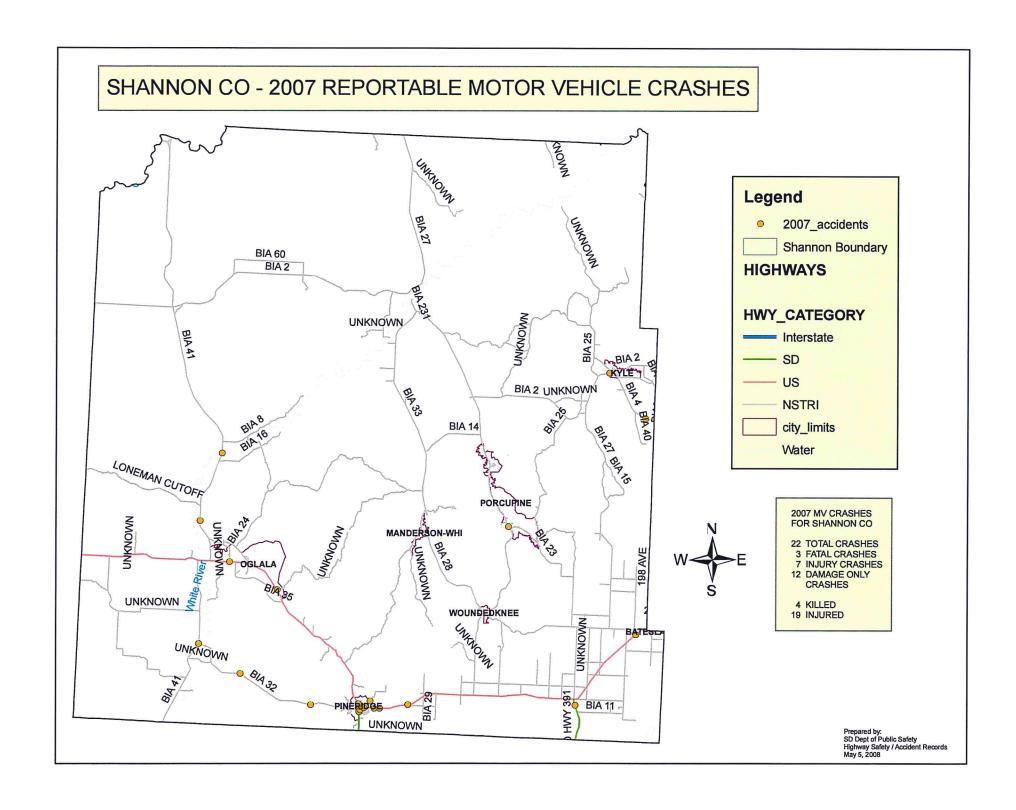
JACKSON CO - 2012 REPORTABLE MOTOR VEHICLE CRASHES



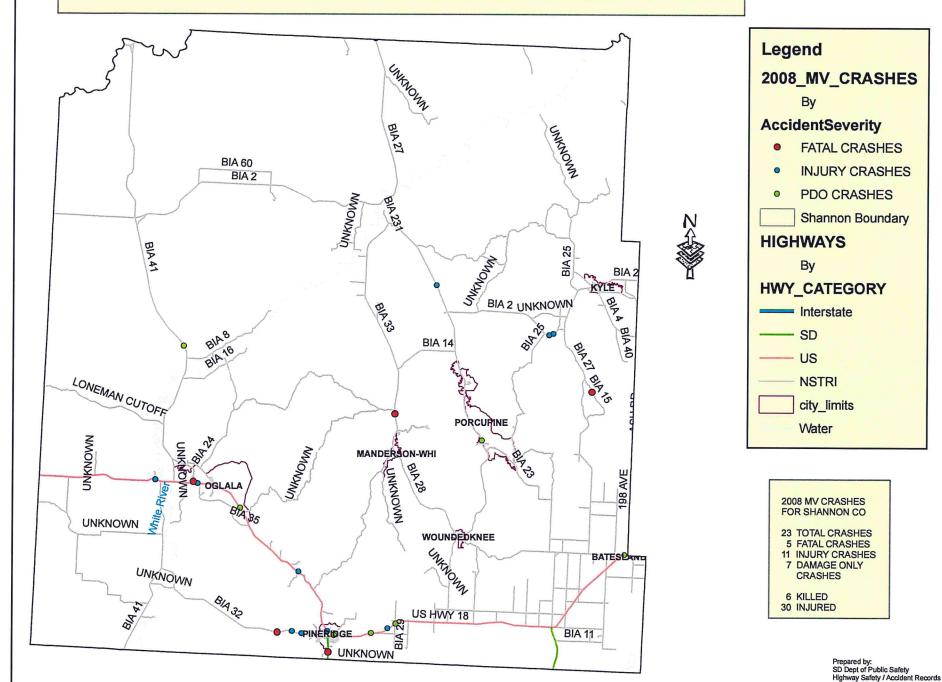
JACKSON CO - 2013 STATE REPORTABLE MOTOR VEHICLE CRASHES



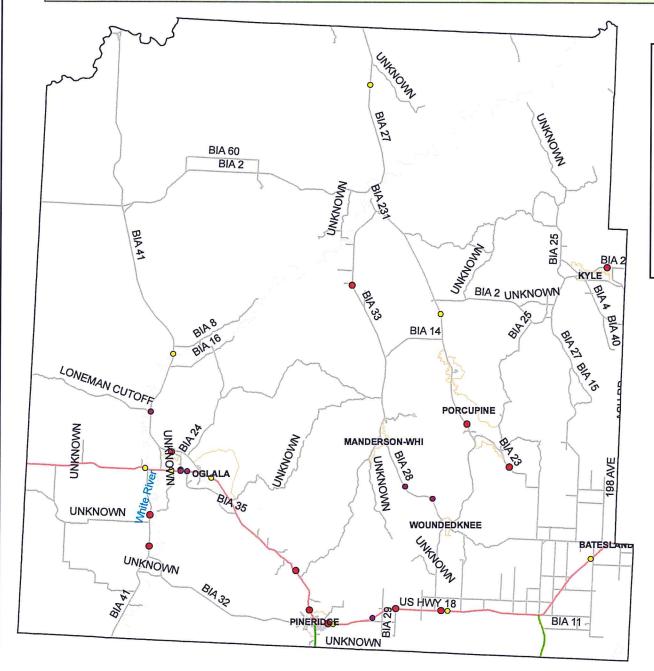


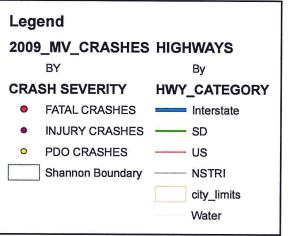


SHANNON CO - 2008 REPORTABLE MOTOR VEHICLE CRASHES



SHANNON CO - 2009 REPORTABLE MOTOR VEHICLE CRASHES







ACCIDENT RECORDS



2009 MV CRASHES FOR SHANNON CO

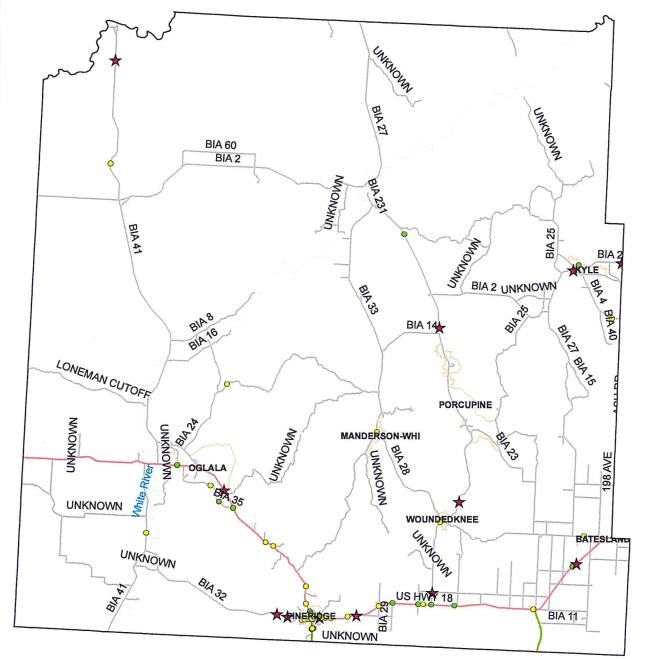
28 TOTAL CRASHES

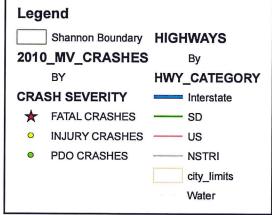
- 12 FATAL CRASHES
- 7 INJURY CRASHES 9 DAMAGE ONLY CRASHES

12 KILLED 39 INJURED

> Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 29,2010

SHANNON CO - 2010 REPORTABLE MOTOR VEHICLE CRASHES







SOUTH DAKOTA ACCIDENT RECORDS

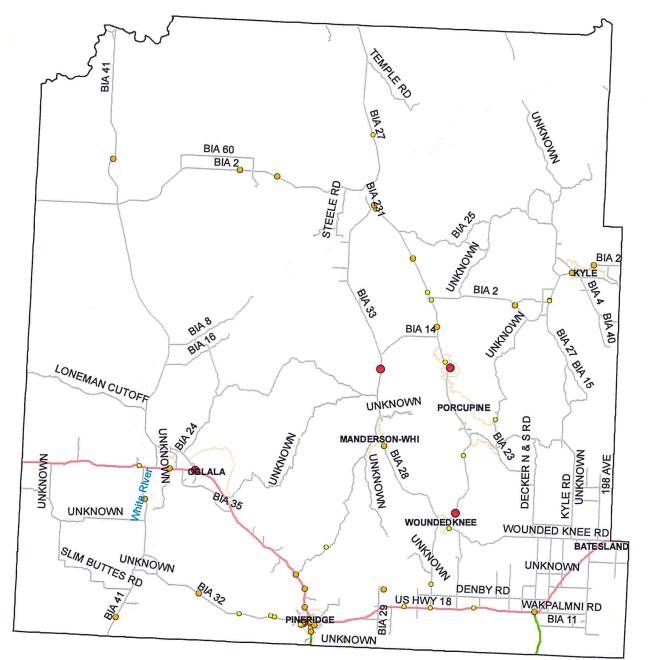


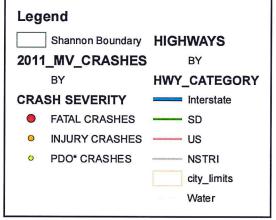
2010 MV CRASHES FOR SHANNON CO

- **56 TOTAL CRASHES**
- 12 FATAL CRASHES 26 INJURY CRASHES 18 DAMAGE ONLY CRASHES
- 18 KILLED
- 65 INJURED

Prepared by: SD Dept of Public Safety

SHANNON CO - 2011 REPORTABLE MOTOR VEHICLE CRASHES







SOUTH DAKOTA ACCIDENT RECORDS



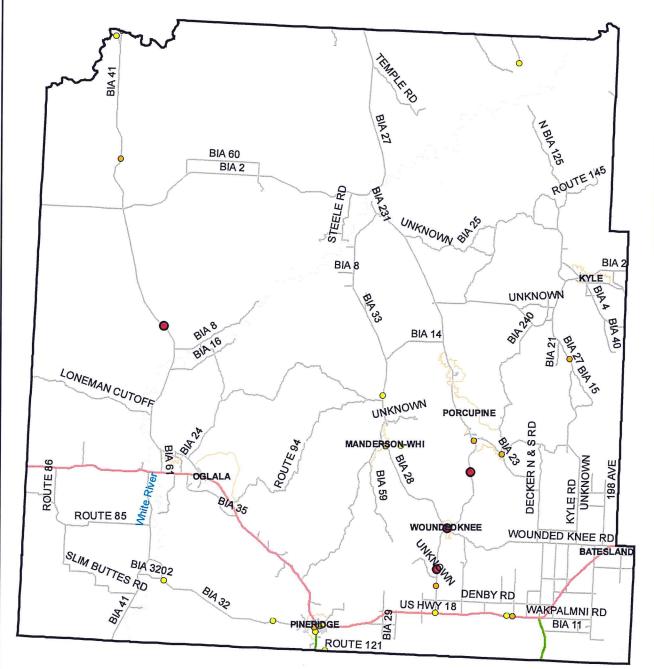
2011 MV CRASHES FOR SHANNON CO

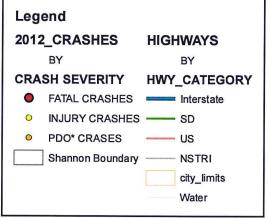
- 51 TOTAL CRASHES
- 5 FATAL CRASHES
- 24 INJURY CRASHES
- 32 PDO* CRASHES
- 5 KILLED
- 39 INJURED

PDO* = PROPERTY DAMAGE ONLY

> Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 26, 2012

SHANNON CO - 2012 REPORTABLE MOTOR VEHICLE CRASHES







ACCIDENT RECORDS



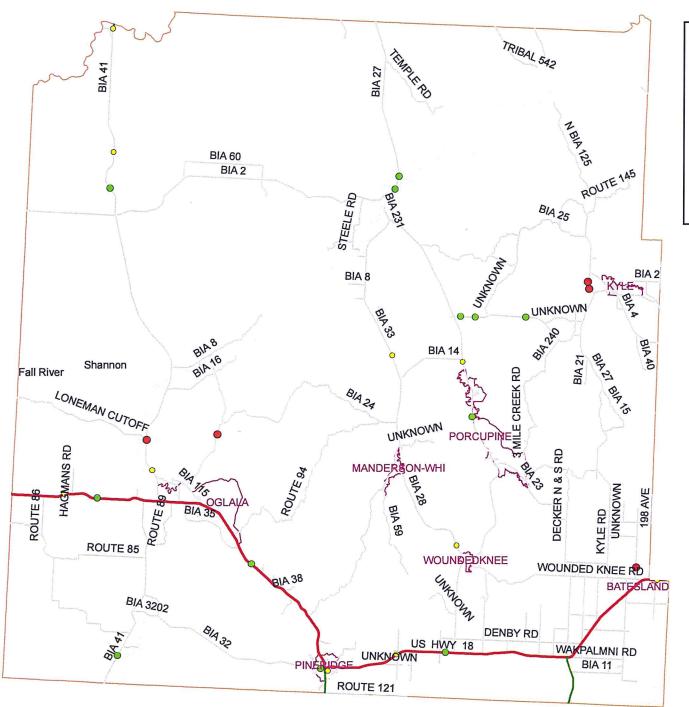
2012 MV CRASHES FOR SHANNON CO

- 25 TOTAL CRASHES
- 4 FATAL CRASHES
- 11 INJURY CRASHES 10 PDO* CRASHES
- 7 KILLED
- 29 INJURED

PDO* = PROPERTY DAMAGE ONLY

> Prepared by: SD Dept of Public Safety Highway Safety / Accident Records April 23, 2013

SHANNON CO - 2013 STATE REPORTABLE MOTOR VEHICLE CRASHES







ACCIDENT RECORDS



2013 MV CRASHES FOR SHANNON CO

26 TOTAL CRASHES

5 FATAL CRASHES

12 INJURY CRASHES 9 PDO* CRASHES

6 KILLED 32 INJURED

PDO* = PROPERTY DAMAGE ONLY

The number of crashes are subject to change as data is retrieved from a live database.

Prepared by: SD Dept of Public Safety Highway Safety / Accident Records May 30, 2014

National perspective.

KLJ has the size and scope of engineering-based services you need, with the local expertise to drive your project forward to a successful result.

REGIONAL EXPERTISE.

KLJ is dedicated to improving the health, safety and welfare of our communities.

TRUSTED ADVISOR.

KLJ delivers quality and accuracy you expect from a trusted advisor and dedicated partner.

