

March 2015

Prepared by KL)

Developed through the Standing Rock Tribal Transportation Program

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zable of Contents

ATTACHMENT C - Crash Maps

	ATTACHMENT B - Meeting Participants
	sbnaga gritaam - A TNAMHDATTA
	ОТНЕК STRATEGIES.
12	ENGINEERING STRATEGIES
	EDUCATION STRATEGIES
91	EXISTING SAFETY PROGRAMS
٥١	ISSUES CAUSING CRASHES ON THE STANDING ROCK SIOUX INDIAN RESERVATION
	2015 TRIBAL TRANSPORTATION SAFETY MANAGEMENT PLAN
	АТАИРІИЄ ROCK POLICE СRASH DATA
۲۲	WYOMING TECHNOLOGY ТRANSFER CENTER DATA
-	ΑΤΑΠ ΠΑΚΟΤΑ ΠΕΡΑRTMENT ΟΓ ΤRANSPORTATION CRASH DATA
	SOUTH DAKOTA FATAL CRASHES
۷	SOUTH DAKOTA ΙΝJURY CRASHES
9	SOUTH DAKOTA OVERALL CRASHES
	SOUTH DAKOTA DEPARTMENT OF PUBLIC SAFETY CRASH DATA
	SIZANDING ROCK SIOUX RESERVATION DATA ANALYSIS
8 3	ВАСКӨВОЛИР
۱	EXECUTIVE SUMMARY

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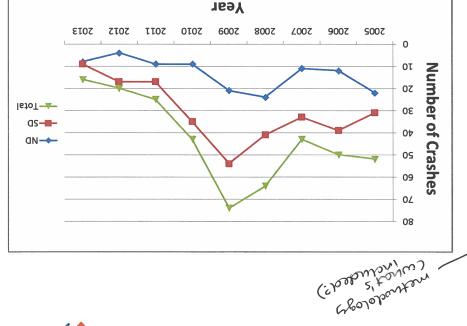


Figure 1 - Total Crashes on the Standing Rock Indian Reservation

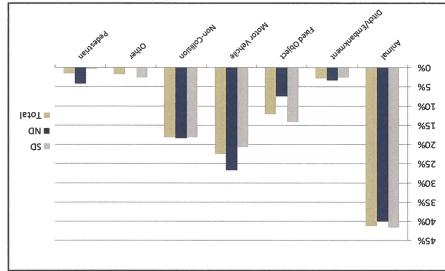


Figure 2 - First Harmful Event for Traffic Crashes on the Standing Rock Reservation

ΕΧΕCUTIVE SUMMARY

From 2005 to 2013 there were 396 total crashes on the Standing Rock Sioux Reservation based upon an <u>Wyoming Technology</u> <u>Transfer Center (WYT2/</u> <u>Transfer Center (WYT2/</u> <u>in Corson County, SD and</u> in more than 40 fatalities and 170 injuries.

The plan identified a .<u>9002 ni nsl9 tnəməg</u>eneM Transportation Safety Tribe developed a the Standing Rock Sioux Rock Sioux Reservation, system on the Standing of the transportation improve the overall safety bne seituini bne seitiletet In an effort to reduce wildlife and other animals. due to collisions with more than 40 percent are causes for these crashes, While there are many

reduce injuries and deaths including establishing a including establishing a

Safety Committee, developing Re education and training

programs, reviewing unsafe roadways and addressing driver behavior issues. Progress has been shown as overall crashes, injuries and fatalities reported to the state have declined, but there is uncertainty on the actual extent of the problem as <u>Bureau of</u> Indian Affairs (BIA) crash data is not included.

issue that covered all 4Es. safety. The strategies are outlined below, with another category added to address an around the 4Es (Education, Enforcement, Engineering and Emergency Response) of safety in the Standing Rock Tribal communities. These strategies were prioritized safety efforts and develop new or continuing strategies to improve transportation interested parties came together to review the available crash data, identify ongoing Plan. This update culminated with a meeting where Tribal, county, state, federal and In 2014 the Standing Rock Sioux Tribe undertook efforts to update the 2009 Safety

Education

Develop a Reservation-Wide Transportation Safety Education Program (00,000)

Enforcement

- Develop a Stronger Partnership with BIA/Tribal Law Enforcement (angoing) Implement Electronic Crash Record System and Data Sharing (currently in Process)
- (total Highway Safety Officer (Bigh In the growt)
- Initiate Discussions on Use of Cross Jurisdictional Agreements

<u>ุ ธุกเารอกเชก</u>ุ ธิ

- Implement the North Dakota Department of Transportation (NDDOT) Highway •
- Develop Multi-Use Separated Paths (?) Cannohbull 19
- Develop Turning Lanes for Family Dollar Store work wi NDDOT on this one*
- Safety Improvement Project (received frod report) tsoD-woJ 9ATJ YW/(9ATT) margore Program (9ATT) hardicited Program (9ATT) hardicited

επεrgency Μαπαgement Systems

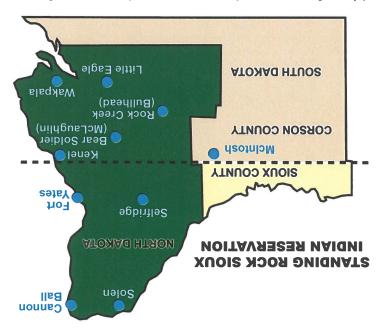
(5) mojzy System (5)

Jeher

Establish a Standing Rock Safety Committee

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The Standing Rock Sioux Reservation was established by a Congressional Act on March 2, 1889. It is the sixth largest reservation in the United States and straddles the North Dakota/South Dakota border. The Standing Rock Sioux Reservation encompasses more than 850,000 acres and includes all of Sioux County, ND, Corson County, SD and population of northern Dewey County and Ziebach County in South Dakota. With a population of nearly 9,000 enrolled members, the largest communities are Cannon Ball, McLaughlin and Fort Yates, but there is also the smaller communities of Bullhead, Kenel, Little Eagle, McIntosh, Morristown, Porcupine, Selfridge, Solen and Wakpala.



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The main uses of the land in the area are for agriculture and ranching, with the Missouri River being a major recreational and tourist attraction in the summer months. The Standing Rock Sioux Reservation contains more than 200 miles of BIA and Tribal roads and 1,100 miles of county and state roads. Come and number

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. The Federal Highway Administration (FHWA) created the Tribal Transportation Program Safety Funds (TTPSF) aimed at addressing safety issues and needs of Tribal governments for transportation and access on Program (TTP) funds of \$450,000,000 are awarded for safety improvements through a complete improvements that prevent and reduce injuries and fatalities resulting from traffic-related crashes. The four categories and their respective funding goals are as fulfic-related crashes. The four categories and their respective funding goals are as follows:

%0L	Education	
%07	Enforcement/EMS	
30%	Engineering	
40 %	Safety Planning	
% ธินเpun_	Strategy	

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

requires any safety project application be linked to a transportation safety plan. clearly seen in the funding emphasis on safety planning and the ranking criteria that Plan (TMP) as a first step in implementing a comprehensive safety program. This is FHWA has emphasized the development of a Tribal Transportation Safety Management

transportation safety on Tribal lands. FHWA describes them as: gnivorymi fo loog and thiw safegies with the goal of improving A TSMP is a community-based, multi-disciplinary approach to identify transportation

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

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

opportunity to leverage resources, work toward a common goal and consider all road Benefits of developing safety plans have been well documented and include the

users, resulting in reduced deaths and injuries in Tribal and other communities.

:Suipnjoui parties from the Tribal community and identified a number of existing programs group of Tribal, state and federal safety professionals, along with other interested implemented, could reduce fatal and injury crashes. The plan was developed by a occurring on the Reservation and to identify additional strategies that if Management Plan to coordinate and focus the transportation safety efforts that were In 2009 the Standing Rock Sioux Tribe initiated the development of a Safety

- The Tribe has been working with KAT Communications on safety grants Safety enforcement is taking place in all Tribal Districts
- The Tribe has secured funding for additional Tribal Police Officers

:pəpnjoui believed, if implemented, could assist in further reducing crashes. The strategies In addition to these ongoing activities, the group also identified strategies that it

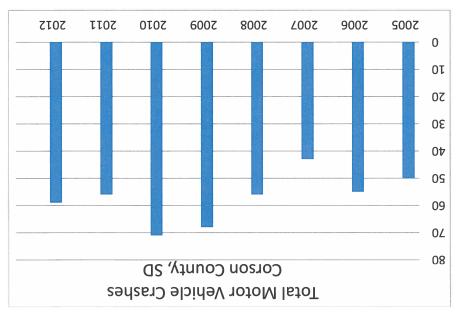
- Establish a Safety Committee (Who?)
- •
- Perform more DUI checkpoints (1965.) Perform more DUI checkpoints (1965.) Increase seat belt use (seat welt use survey, saturday performs) Establish education programs (worweg an it) Identify hazardous roads & Quecutature Struck \$ Arching Struck Punchene Review school bus stop advance warning signs (?) Work with Northern Plains TTAP (Ardlen Boxer) what can She do?
 - *
 - •

funding from the FWHA AWHA shi mori gnibnut. conditions. To assist with this update, the Standing Rock TTP applied to and received plan was not heavily data driven and is in need of an update to reflect present-day data shows that injuries and fatalities have been dropping since implementation, the While the 2009 TSMP was a good start for the Standing Rock Sioux Tribe and current

STANDING ROCK SIOUX RESERVATION DATA ANALYSIS

One of the important factors in the development of a Tribal Safety Plan is for the available crash data to be analyzed and utilized in the identification of issues and development of strategies. This data is also an important resource as Tribes apply for application. For the development of the 2015 Plan, data was gathered from the states of North Dakota and South Dakota. Data was not able to be gathered from the states enforcement, so the data presented may not be a complete picture of crashes that are occurring.

SOUTH DAKOTA DEPARTMENT OF PUBLIC SAFETY CRASH DATA



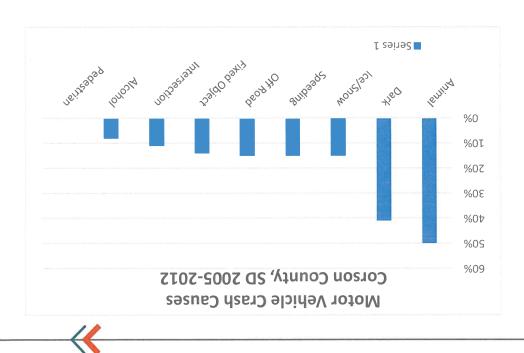
South Dakota data that was acquired from the South Dakota Department of Public Safety (SDDPS) differentiation between Tribal and non-Tribal data is also grouped by coarty, so all data for corran County was collected and analyzed.

During the period from 2005 to 2012, there were a total of 458 crashes

with some slight

reductions shown in 2011 and 2012. Overall crashes remained relatively consistent with slightly more than 50 crashes per year. This does not include crashes investigated by BIA Law Enforcement so a large number of the reported crashes are on US 12, 5D 63 and SD 65.

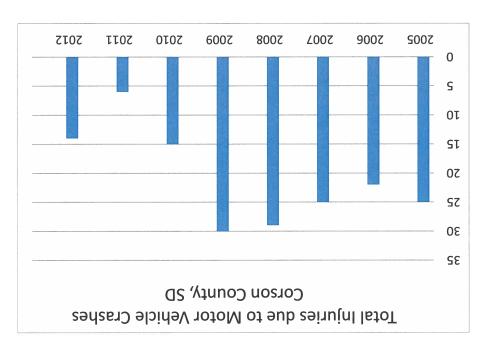
"SRST Trobul Member"



crashes, fixed objects speeding, off road covered roads, included ice or snow statistical relevance factors that had some analysis period, other County during the conditions. For Corson poor lighting animals during dark or of them are with Dakota, a large number rural roads in South crashes occurring on As with many of the

and crashes at intersections, with all of these causes being cited in 10 to 15 percent of all crashes. Alcohol involvement was slightly less at under 10 percent of crashes. Pedestrian crashes were included due to the higher number of people who walk on the reservation. As can be seen from the data in the chart, pedestrian crashes are not currently showing up in the data in South Dakota.

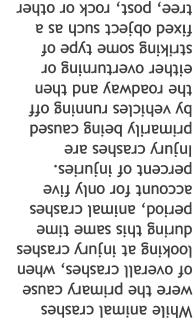
ΣΟΠΤΗ DAKOTA ΙΝJURY CRASHES

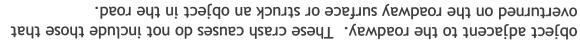


Discussions at the safety than in previous years. lower in 2010 thru 2012 with injuries being much shows a downward trend Enforcement. The data data from BIA Law includes limited or no Sheriff's Office and Patrol or Corson County the South Dakota Highway crashes reported by either this data is primarily . Corson County, SD. Again, 166 reported injuries in 2005 to 2012, there were For this same period from

planning meeting confirmed that injury crashes have been going down, in part due to increased emphasis on local education by local enforcement.

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan





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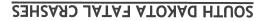
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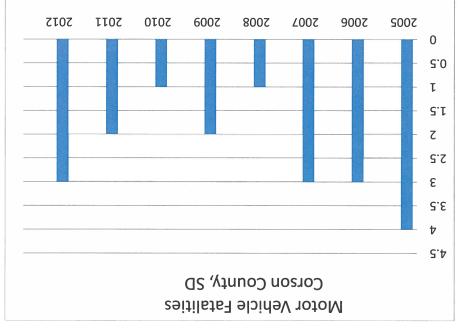
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Corson County, SD 2005-2012

Motor Vehicle Injury Causes

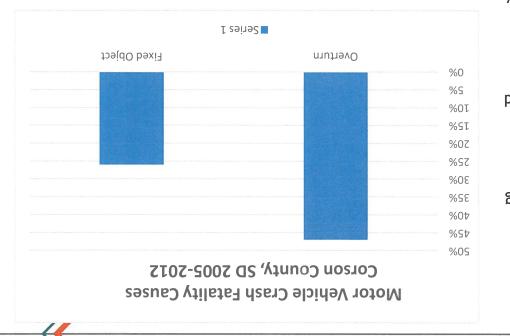
Fixed Object

IsminA

Jibrayo ng gniwodz per year, the data is less than three fatalities in average of While the sample size is of a fatal traffic crash. noitegitsevni eht ni teise normally called in to Dakota Highway Patrol is occurring as the South fatalities that are should include all the crash types, this data County. Unlike the other fatalities in Corson were 19 reported From 2005 to 2012, there

downward trend even though it has been increasing the last two years.

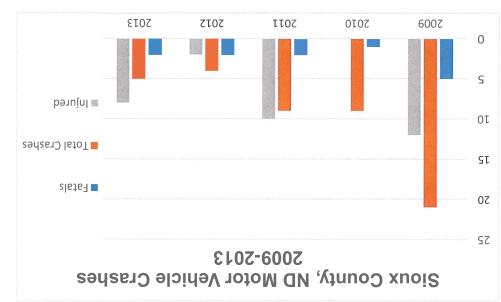
Intersection



properly restrained by occupants were not that many of the would also indicate North Dakota. This both South Dakota and rural fatal crashes in consistent with other object. This is or striking a fixed and either overturning leaving the roadway caused by vehicles are overwhelmingly crashes, fatal crashes Ynuini sht the injury

a seat belt and may have been ejected from the vehicle during the crash.

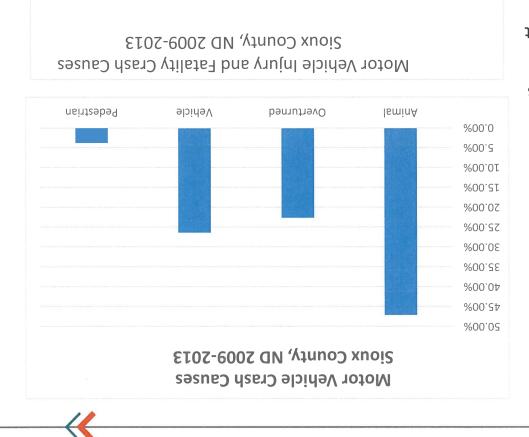
ΑΤΑΠ ΗΣΑЯЭ ΝΟΙΤΑΤЯΟ92ΝΑЯΤ Ο ΤΝЭΜΤЯΑ93Ο ΑΤΟΧΑΟ ΗΤЯΟΝ



Data that was obtained from NDDOT was grouped together and not broken down fatalities and injuries due to the relatively the last five years there were a total of 48 reported crashes in Sioux County, resulting in 12 resulting in 12 injuries. While the injuries. While the

number of crashes is not large, the severity of the crashes is rather alarming. The data also includes numerous crashes that resulted in multiple fatalities and injuries.

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Vehicle

of these crashes the first time and both were also identified for crashes. Pedestrians number of overall compared to the injuries and fatalities as to the large number of and better and the second s Corson County, SD, but what was shown in much higher than overall crashes. This is fo esues tracifingis identified as a vehicles were also crashes with other Overturning and total crashes. nearly half of the were the cause of other animals, which bns əfilbliw əvlovni Sioux County, ND cause of crashes in the predominant from South Dakota, Similar to the data

When examining just the causes for injuries and fatalities, overturning accounted for more than half of

resulted in a fatality.

the crashes, followed by other vehicles with 35 percent and pedestrians at just more than 10 percent. While still a relatively small number, for the rural nature of the area, having two pedestrian fatalities may be significant and support the need for additional facilities.

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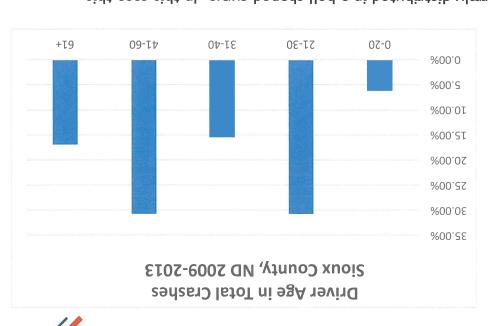
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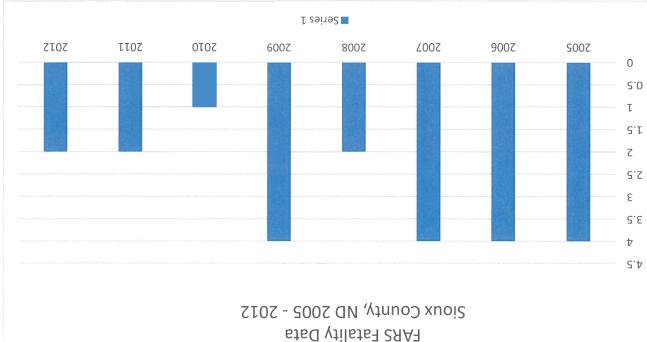
Pedestrian



The age of the drivers involved in the crashes was analyzed and two distinct age groups were involved in more than 60 percent of all crashes. The age groups included drivers from 21 to 30 41 to 60 years of age. 41 to 60 years of age. 41 to 60 years of age. Grouping is common and grouping is common and data in the region, but data in the region, but

age groups are more uniformly distributed in a bell shaped curve. In this case this would see higher crashes in the 31 to 40 year old age group and less in the 41 to 60 and more than 61 age groups. This may be due to the small sample set or the distribution of driver age in the area.

For the data analysis for Sioux County, ND additional data was gathered from the Fatal Analysis Reporting System (FARS) that is operated by the National Highway Traffic Safety Administration (NHTSA). With the high severity rate of crashes in Sioux County, ND, a longer timeframe was examined to get a broader picture of the number of deaths that are occurring due to traffic crashes. Similar to data for South Dakota,



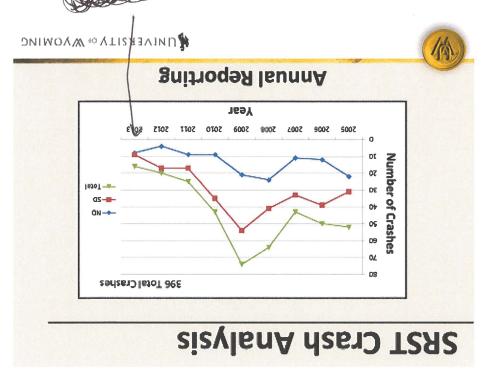
Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

there is a downward trend indicating fatal crashes are becoming less frequent; however, total fatalities still are 23 over the eight year period. The fatal crash map that is included in Attachment C, obtained from NDDOT identifies that most of the fatalities are occurring on the state highway system, predominantly on ND 24.

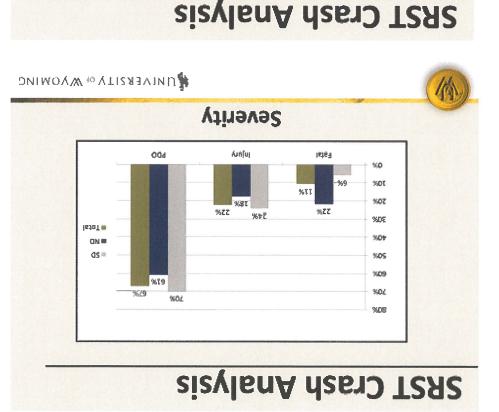
While specific data was not gathered for Sioux County on fatal crash causes from FARS, statewide crash data for North Dakota as reported in the ND Strategic Highway Safety Plan, identifies lane departure, unbelted occupants and alcohol-related as the top three causes of severe crashes within the state.

ΜΥΟΜΙΝG ΤΕCHNOLOGY ΤRANSFER CENTER DATA

As part of a pilot project thru the WYT2/LTAP, data for the Standing Rock Sioux Tribe was analyzed to determine locations for low-cost safety improvements. While much of the <u>data relies on the same data</u> sources used for the previous data analysis, it has been included here due to some of the data being presented in a different fashion and combines the North Dakota and South Dakota data for a more complete picture of traffic crashes on the Reservation.



This data shows that recent drop in overall crashes on the Standing Rock Sioux Reservation. 396 crashes having occurred from 2005 to occurred from 2005 to Dakota and South Dakota.



First Harmful Event

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PRINC

Dakota being fatalities. of crashes in North percentage (22 percent) resulted in the large crashes. This has investigating minor crashes and BIA police and other severe investigation of fatal Patrol assisting in the to the State Highway to be largely attributed crashes. This is believed the data of fatal rcontains a large skew in crashes in Sioux County analysis, the severity of Dakota crash data presented for the North Similar to what was

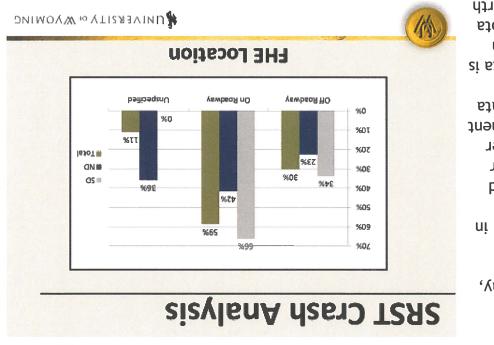
This data also identified crashes with wildlife and other animals as the predominant cause of crashes on the Standing Rock Sioux Reservation. Fixed objects and other motor vehicles were also significant. While few pedestrian crashes are currently occurring, they did account for nearly did account for nearly dive percent of crashes in five percent of crashes in

MUNIVERSITY or WYOMING

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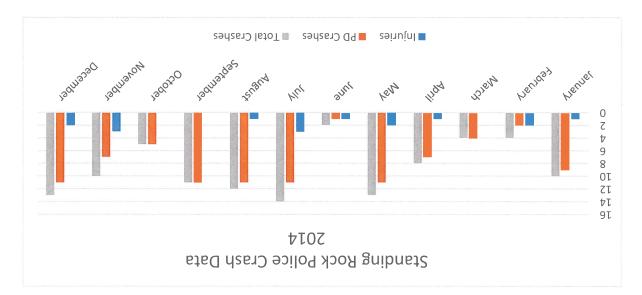
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and South Dakota. In North the states of North Dakota being recorded between si stab sidt wod ni ytinsqaib Jussifingis a work seob or falling asleep. The data overcorrection, impairment overturning due to driver and striking an object or vehicles running off road rural areas with single crashes. This is common in proportion are off-road a fairly significant vecurring on the roadway, percent overall) are While most crashes (59

Dakota 36 percent of crashes were unspecified as to location versus none unspecified in South Dakota.



АТАИ ИЗАК РОLICE СКАЗН DATA

The Standing Rock Police Department provided the crash data they had available for calendar year 2014. The data is summarized below. While this data has been provided, it and previous crash data has not been provided by North Dakota and South Dakota so a complete data package is not available. Additionally, the data is not broken down by state, but by all traffic crashes investigated by BIA on the Standing Rock Sioux Reservation.

state by mobiliant termit

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

Data provided shows that in 2014 a total of 106 crashes were investigated by BIA that resulted in 16 injuries.

The data did not provide any detail on crash cause, road condition or other parameters, but did breakdown crashes by month. This monthly breakdown shows spikes in May, July, August, September and December. While the trends are fairly common for this region, due to higher traffic volumes and speeds during the summer months and road conditions in the winter, the extremely low rates in June are not consistent with other data.

VAJ9 TRIBAL TRANSPORTATION SAFETY MANAGEMENT PLAN

The 2015 Standing Rock Sioux Safety Plan was developed using available data and personal knowledge and expertise of the participants that attended the planning meeting. The group included state, federal and Tribal safety representatives from engineering, enforcement, education, emergency medical services and the school system. A complete list of participants is included in Attachment B.

The planning group reviewed the 2008 plan and crash data that was available and utilized it as a basis to develop a list of issues that are currently affecting transportation safety on the Reservation. The group then identified the programs that currently exist on the reservation and identified additional strategies that need to be implemented to address safety issues. The next sections document the discussions and outcomes.

INDIAN RESERVATION

The crash data that was analyzed clearly shows a number of issues, many of which were identified in 2012 as well. These include:

- Animal crashes
- Nighttime crashes
- Lack of seatbelt use
- Alcohol involvement
- Overturning/rollover crashes
- Fixed objects
- Departure from roadway
 Departure from roadway
 Departure from roadway
 Departure from roadway

communities. The issues included: personal experience in dealing with transportation safety issues in the local In addition to these issues, the group identified a number of other issues based upon

- Wel gnome noitenibrooc/noitecinummoC
- Enforcement of traffic safety laws enforcement agencies
- Soad maintenance
- Texting and driving •
- Large trucks and commercial vehicles
- Narrow road widths ٠
- Low fines and sentencing in Tribal court $(\bullet$
- Services (EMS) Access to ND 24 for Emergency Medical
- Lack of crosswalks Lack of multi-use pathways
- (\bullet) gnibeeding •
- Lack of car seat technicians
- -Suipaads
- Weight limits on bridges
- Access into Fort Yates
- Car seat use
- Need for better delineation and markings

EXISTING SAFETY PROGRAMS

the development of the safety plan were aware of. list is not all inclusive, but documents the programs that the group participating in projects and programs to address transportation safety issues on the Reservation. The The Standing Rock Sioux Tribe has implemented or is working on a number of safety

- crash record system. The TTP has received funding for hardware necessary to implement an electronic
- Sanastra .etance warning signs would be appropriate. reviewed to identify any locations where School bus stop locations have also been on the school buses to increase visibility. The school district has installed strobe lights
- Road Safety Audits (RSAs) conducted in the The SRST Transportation Program has had

2015 Tribal Transportation Safety Plan

.noitevration the nitih system on roadways within the reservation.



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of the car until they reach AGE 13.

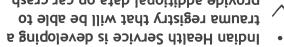
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• The Tribe has funded and filled a position to serve as a Transportation Safety Coordinator.

CONS

The Tribe has provided free car seats and bike helmets. (heimets not beeng used)



- Crauma registry that will be able to
 provide additional data on car crash
 victims.
- The Tribe has worked with Banik
- Communications to develop educational Materials.



- Separated pathways have been constructed in
 Fort Yates across the causeway and along ND
- 24 to provide safe pedestrian access.
- Corson County has worked with the Tribes to ticket non-Tribal members for traffic violations when pulled over by Tribal police.
- The Tribe has certified car seat technicians * associated with the WIC Program. Tromoportecture Frogram.
- \sim The Tribe has implemented a Primary Seat Belt Law on the Reservation.

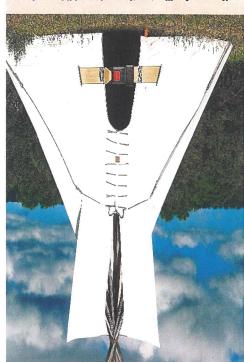
The main goal of the Standing Rock Tribal Safety Plan is to use a multi-disciplinary approach to identify safety strategies for implementation that can address the safety issues that were identified. The strategies are intended to be implemented over the next several years and when appropriate, possible safety funding sources have been identified. The strategies were developed as a comprehensive approach to safety, including engineering, enforcement, education and emergency management opportunities.



Develop a Reservation-Wide Transportation Safety Education Program Education Strategies

driving and child restraint. such as seat belt use, texting and driving, impaired particularly to younger drivers on behavioral issues. provide education on transportation safety, and other interested parties on the reservation to performs is working with law enforcement, schools Transportation Department. A key role this person Safety Coordinator position on their staff in the The Standing Rock Sioux Tribe have a Transportation

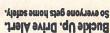
local artistry and installed on the Reservation and include two large billboards to be developed using community gatherings. Materials produced would the issues and allow for distribution at large comprehensive program that could address many of lack of funding has not been able to develop a more has completed some small billboards, but due to talent to deliver the safety message. Standing Rock relevant to the Tribal audience and utilize local rate of success when they are made culturally campaigns across the country have shown a greater VJafez YneM. agemi add ni nwodz zi Jeinage. example from the Rosebud Sioux Tribe of such Community to promote these safety themes. An recognizable individuals from the Standing Rock issues, by using local leaders, or other easily texting and driving and other transportation safety campaign themes on impaired driving, seat belt use, This project would build on national safety



Injuries are the leading cause of death for American Indians age 1 to 44. American Indian children have the highest rate of death from motor vehicle crashes among all ethnic groups in the U.S. Keep our families together and our children safe.

injuries and deaths from motor vehicle crashes drain our health care resources and take away lives that would have contributed to our tribal community. Build a stronger future.

 Teach young drivers to be responsible an · Be sober when you drive. Buckle up, every trip, every time.
 Never ride with a driver who has be



Tribal safety posters similar to the one shown and modification of transportation

and other community events.

.msrgor9 noitstroqsnsrT T2A2 :noiqmsh2 yg9tsn.

(ISHI) Funding Opportunity: 2014 TTP Safety Funding, BIA Indian Highway Safety Program

Standing Rock Community. A display booth is also needed for use at Pow Wows, fairs safety brochures from NHTSA and FWHA on various safety themes to better suit the

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Enforcement Strategies

Develop a Stronger Partnership with Tribal Law Enforcement

Enforcement activities can have a significant impact on transportation safety. Unfortunately, the Standing Rock Sioux Tribal Police Department planning session that was held to develop this plan. An active, robust relationship is essential to a follow up enforcement actions, follow up enforcement actions, follow up enforcement actions, follow up enforcement actions,



There was considerable discussion on the lack of enforcement presence and issues that exist in the community where a strong traffic enforcement presence could reduce fatalities and injuries. It was acknowledged by all that the Tribal police have a difficult job and are in need of additional staffing, but that their participation is critical in the implementation of a safety plan and strategies for the reservation. The Department staff to further explore how both transportation and enforcement Department staff to further explore how both transportation and enforcement activities could be better aligned to benefit the Tribal community.

Strategy Champion: SRST Tribal Transportation Department and SRST Police Department.

Funding Opportunity: None needed.

Implement Electronic Crash Record Systems and Data Sharing among Agencies

The Standing Rock Sioux Tribe received a safety grant from FHWA in 2012 to purchase the necessary hardware required for implementation of the Traffic and Criminal Software (TraCS) electronic crash records system with the assistance of the North Dakota and South Dakota DOTs. Also, a draft Memorandum of Understanding (MOU) was developed identifying roles of each agency involved at that time. While funding transportation departments and the TraCS project has not yet been implemented. This project needs to be completed with the SRST Transportation Program acquiring This project needs to be completed with the SRST Transportation Program acquiring This project needs to be completed with the SRST Transportation Program acquiring

Age my total

and IT support and the SRST Police Department, fire or ambulance using the system to enter crash records as was identified in the draft MOU. This crash data could then be shared to develop a complete set of crash data for the reservation. To improve the investigative ability of the SRST Police Department, additional training and equipment for crash scene reconstruction will also be provided.

Strategy Champion: SRST Police Department, NDDOT, South Dakota Department of Public Service and SRST Transportation Program.

Eunding Opportunity: TTPSF, BIA IHSP and State Safety Funds.

Provide a Tribal Highway Safety Officer

Currently the Tribe does not have any officers dedicated to highway safety enforcement. With the limited staffing and the demands on time that criminal activities require, highway safety enforcement, by necessity, becomes a lower priority. In the past, the Tribe had Highway Safety Officers whose positions were funded thru the BIA IHSP. To elevate the level of highway safety enforcement, Tribal funded thru the BIA IHSP. To elevate the level of highway safety enforcement safety enforcement should pursue obtaining at least one and possibly two highway safety enforcement officers.

Strategy Champion: SRST Police Department.

Funding Opportunity: BIA IHSP.

Initiate Discussions on Use of Cross Jurisdictional Agreements

With the staffing challenges faced by all enforcement agencies, many Tribes, states and local jurisdictions have entered into cross jurisdictional agreements to expand presented to the Tribal Council and determine whether they are open to such an opportunity. It may be desirable to invite Tribal council and/or Tribal law enforcement from other reservations such as Crow Creek, where cross jurisdictional agreements are in place, to discuss benefits and some challenges that they have

experienced.

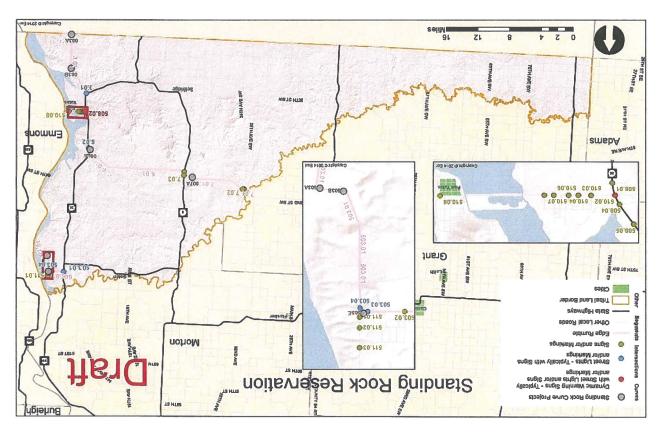
Strategy Champion: SRST Transportation Department and Standing Rock Sioux Tribal. Council.

Funding Opportunity: None required.

Engineering Strategies

UDDOT Highway Safety Improvement Project

The NDDOT has initiated a program to work with local and Tribal governments across the state to implement improvements as part of the Local Road Safety Program. NDDOT has used statewide crash data to complete a systemic safety analysis, focused on the implementation of low-cost measures such as rumble strips, signing and pavement markings. These were evaluated for the North Dakota portion of the nearly 36 miles of rumble strips and one mile of six-inch edge line, enhance delineation and/or add rumble strips at seven curves and upgrade 23 intersections. The total cost of the improvements is estimated to be <u>\$416,000</u>, of which the Standing Rock Sioux Tribe will be required to provide a 10 percent match. Locations are shown on the improvements is estimated to be <u>\$416,000</u>, of which the Standing Rock Sioux Tribe will be required to provide a 10 percent match. Locations are shown on the map below.



Strategy Champion: SRST Transportation Department and NDDOT. **Funding Opportunity:** NDDOT HSIP and TTP Construction Funding.

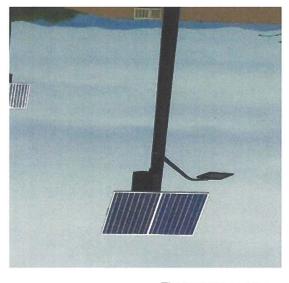
Applud for grant!

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

Develop Multi-Use Separated Paths

There are locations within the Standing Rock Sioux Reservation where there is pedestrian/bike specific need for pathways. These locations include <u>Bullhead</u>, <u>Cannonball</u> and the Fort Yates pathway extension. Currently, the state crash data does not identify pedestrian or bike as a major crash 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 the need for access to Tribal communities, facilities, schools, cultural sites, Pow Wow grounds and commercial businesses has continued to expand.



Lighting should be considered along urban or other pathways as appropriate to increase pedestrian visibility, provide for traffic calming and potentially increase security. <u>Solar</u> <u>powered and/or LED lighting could be used to</u>

reduce the cost for providing power and the a solar powered lighting system is shown and several companies produce such systems.

Solar too expensive to nountain according I w tronce, more putto I w troice, more addressive putto

Three locations were prioritized where separated pathways would be beneficial to creating <u>safer pedestrian and bicycling opportunitie</u>s. These include:



Bullhead Community Pathway

BIA Route 20 in South Dakota provides access to the Tribal Community of Bullhead and then continues on to connect to US 12 at Walker. While providing access to the community, BIA 20 also provides a barrier between housing on the south side of the road and the community store and Pow Wow grounds to the north. While

there are sidewalks within the Tribal housing, currently BIA 20 has no shoulders, marked crosswalks or other pedestrian facilities. This requires pedestrians to either walk on the roadway or in the ditch and crossings of BIA 20 are made at numerous locations. A pathway should be constructed beginning need to have two crosswalks across BIA 20, one at the Pow Wow grounds and one at the store. These crosswalks should be marked, signed and have pedestrian activated flashers. Installation of lighting along the pathway while improving visibility and increasing safety may have an additional benefit of slowing traffic as it enters into the community. The pathway would have a total length of approximately .35 miles and has a planning level cost estimate for design and construction of \$160,000.



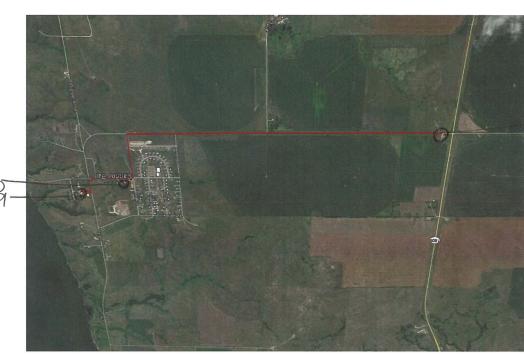
.msrgorg noisestonstranges and strategy Champion: SRST Transportation Program.

Funding Opportunity: TTP Safety Funding, TTP Construction Funding or SDDOT Transportation Alternatives Funding.

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

Cannon Ball Community Pathway

The community of Cannon Ball at the northern end of the Standing Rock Reservation in North Dakota is located east of ND 24/1806. This community is approximately 1.5 miles off the main highway and served by BIA 36. While the community and Pow Wow grounds are east of the state highway, there is a roadway. A pathway should be constructed that provides for pedestrian access from the highway into the community and then onto the Pow Wow grounds. These pathways would be approximately 2.4 miles in total length and would have a planning level design and construction estimate of \$1,000,000,000 which also includes lighting of the pathway.



pike rack

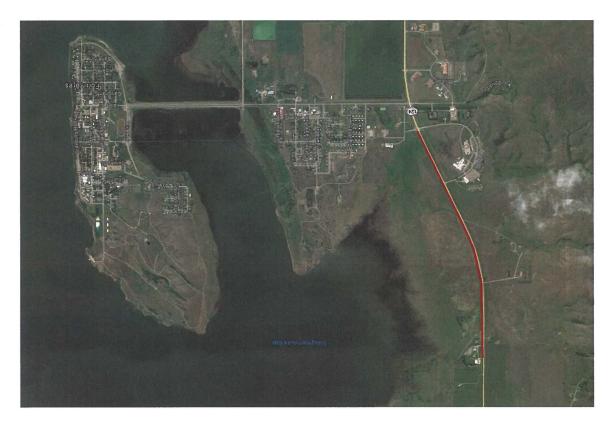
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.margon9 noitetroqnar TCRS :noiqmed9 Champion Program.

Funding Opportunity: TTP Safety Funding, TTP Construction Funding or SDDOT/NDDOT Transportation Alternatives Funding.

Fort Yates Pathway Extension

There is currently a pathway in Fort Yates, ND that starts in town, crosses the causeway and proceeds west out to ND 24, where it crosses the highway and provides access to the Tribal school and facilities in the area. The pathway also extends south of town along ND 24 to access businesses and facilities, but currently does not extend to the north. North of Fort Yates is a local grocery store and laundromat that members of the community access, many of them by walking. A pathway extension in this area would provide for much better and safer pedestrian access. This pathway would be approximately 1.5 miles in the solar to the community access, many of them by total length and would have a planning level design and construction estimate of \$675,000 including design, lighting and construction.



Strategy Champion: SRST Transportation Program.

Funding Opportunity: TTP Safety Funding, TTP Construction Funding or NDDOT Transportation Alternatives Funding.

Develop Turning Lanes for Family Dollar Store

Approximately 1.5 miles north of Fort Yates, the Family Dollar Store, a local laundromat and a commercial construction business which includes a concrete batch plant are located just east of ND 24. These businesses are currently accessed by the two approaches that are within a 55 mph speed limit and can be seen in the area. Tribal below. Currently the roadway has two thru lanes with no turn lanes in the area. Tribal staff and residents have expressed concerns with vehicles slowing or stopping to turn into the approach conflicting with higher speed traffic that is continuing through the staff and residents have expressed concerns with vehicles slowing or stopping to turn into the approach conflicting with higher speed traffic that is continuing through the staff and residents have expressed concerns with vehicles for a continuing through the into the approach conflicting with higher speed traffic that is continuing through the staff and residents have expressed concerns with vehicles that by the Standing Rock into the approach conflicting with higher speed traffic that is continuing through the staff and residents in the stating the area to concentrate determine if traffic and turning vehicle thresholds that have been established to determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for determine if traffic and turning vehicle thresholds that have been established for



Creategy Champion: NDDOT and SRST Transportation Program.

Funding Opportunity: TTP Safety Funding, TTP Construction Funding or NDDOT Transportation Funding.

Participate in TTAP/WY LTAP Low Cost Safety Improvement Project



The Standing Rock Sioux Tribe have recently been selected by the Northern Plains TTAP and Wyoming LTAP to participate in a safety project to i<u>dentify high-risk locations and</u> low-cost safety improvements. This project *Was piloted on the Wind River Indian Reservation in Wyoming and will build on that effort and utilize the lessons learned to enhance safety at Standing Rock. The enhance safety at Standing Rock. The and rank high-risk locations and then and rank high-risk locations and then develop safety countermeasures and develop safety countermeasures and calculate a benefit cost ratio for each*

location. Using the benefit cost information funding sources can be identified and priorities established and incorporated into a strategic plan.

.mergora roistersportation Program.

Funding Opportunity: None Required



Improve 911 Addressing 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 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 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 utilized as part of this effort.

SKT TRAPPORT Department and SRST EMS.

.csbnu[¬] Opportunity: BIA IAPP, TTP Safety Funds.

Standing Rock Sioux Tribe 2015 Tribal Transportation Safety Plan

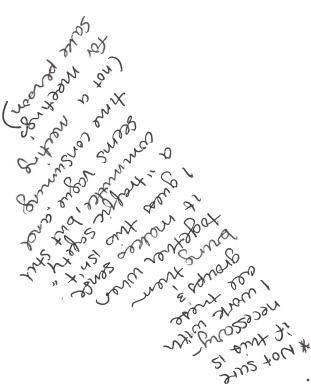
Other Strategies

Establish a Standing Rock Safety Committee

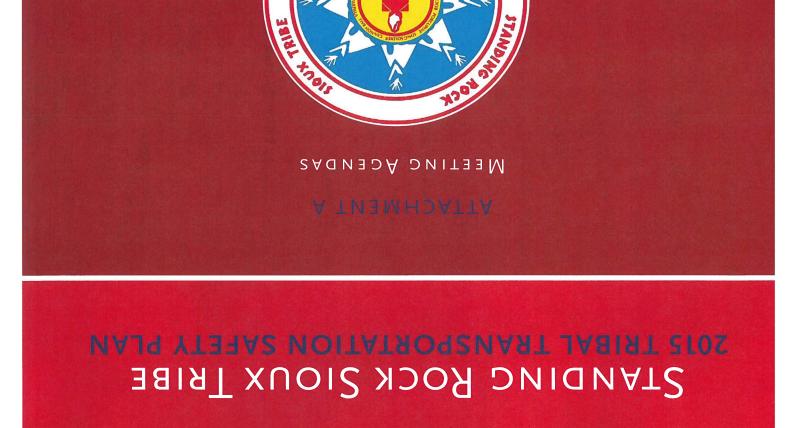
Building on the efforts that have been initiated in the development of the 2015 Tribal Transportation Safety Plan, the Tribe would like to establish a committee that includes transportation safety stakeholders to work together to address Tribal transportation safety issues. This group could meet on a quarterly basis to develop a stronger relationship among Tribal safety agencies, promote safety ordinances, collect baseline data in seatbelt use, impaired drivers and law enforcement personnel, for safety grants to address transportation in tracking issues and law enforcement personnel, to saders on the reservation in tracking issues and developing implementation strategies to address them. This group would become the leaders on the reservation in tracking issues and developing implementation strategies to address them.

Strategy Champions: SRST Transportation Program, SRST EMS, SRST Police Department, Indian Health Service, NDDOT and SDDOT.

Funding Opportunity: None Required.







A THACHMENT A

Atoning Rock Tribal Safety Plan 2014 Agenda

- Melcome and Introductions .m.s 00:01
- 10:15 a.m. Background and Overview

Discussion of Tribal Safety Plans, including need for Review of 2009 Standing Rock Safety Plan

Presentation of Crash and Safety Data

Questions and Discussion of Data

- 1:00 a.m. Standing Rock 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 updated Standing Rock Tribal Transportation Safety Plan:

Identification/Discussion of Safety issues and concerns

Safety approaches to include

ςafety approaches to develop

Integration with other safety plans

12:00 Lunch

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

STANDING ROCK SIOUX TRIBE

ATTACHMENT B

ΡΑRΤΙCIPANTS





ATTACHMENT B

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ΑΤΑΝDING ROCK SIOUX TRIBAL TRANSPORTATION SAFETY PLAN PARTICIPANTS

May 14, 2014

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		Director	Feather
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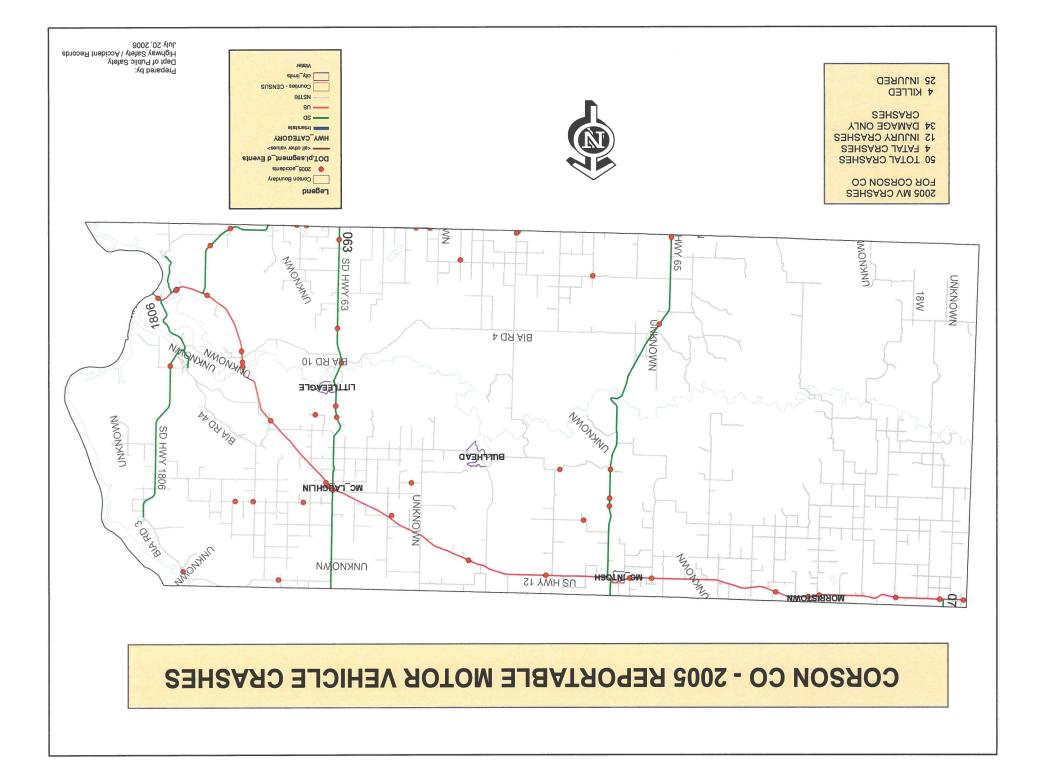
STANDING ROCK SIOUX TRIBE

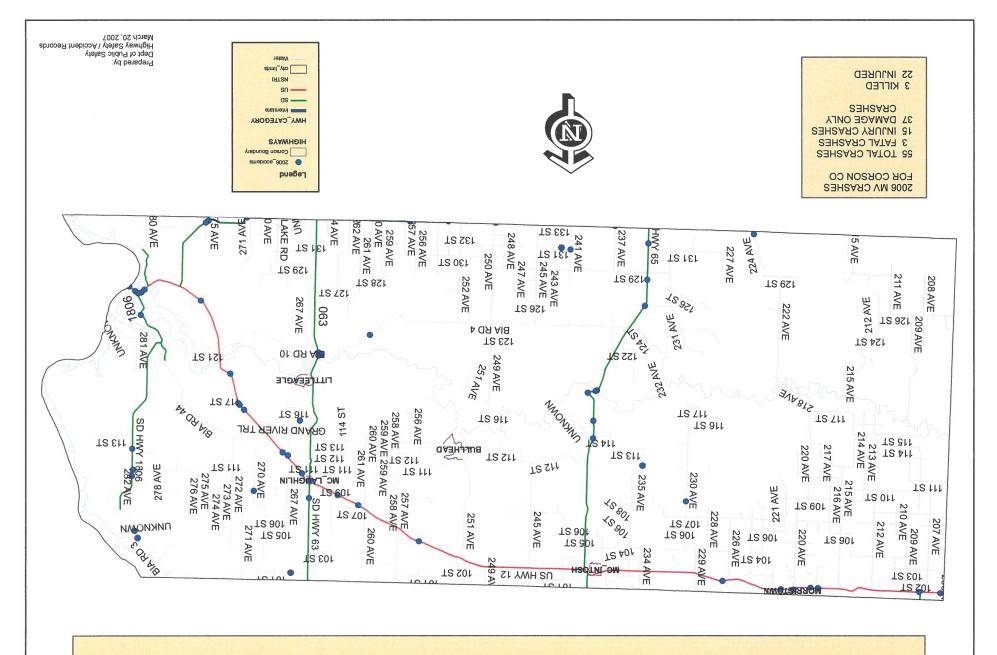
ATTACHMENT (

MAPS OF 2005 TO 2012 CORSON COUNTY CRASHES MAPS OF 2008 TO 2012 ND COUNTY CRASHES

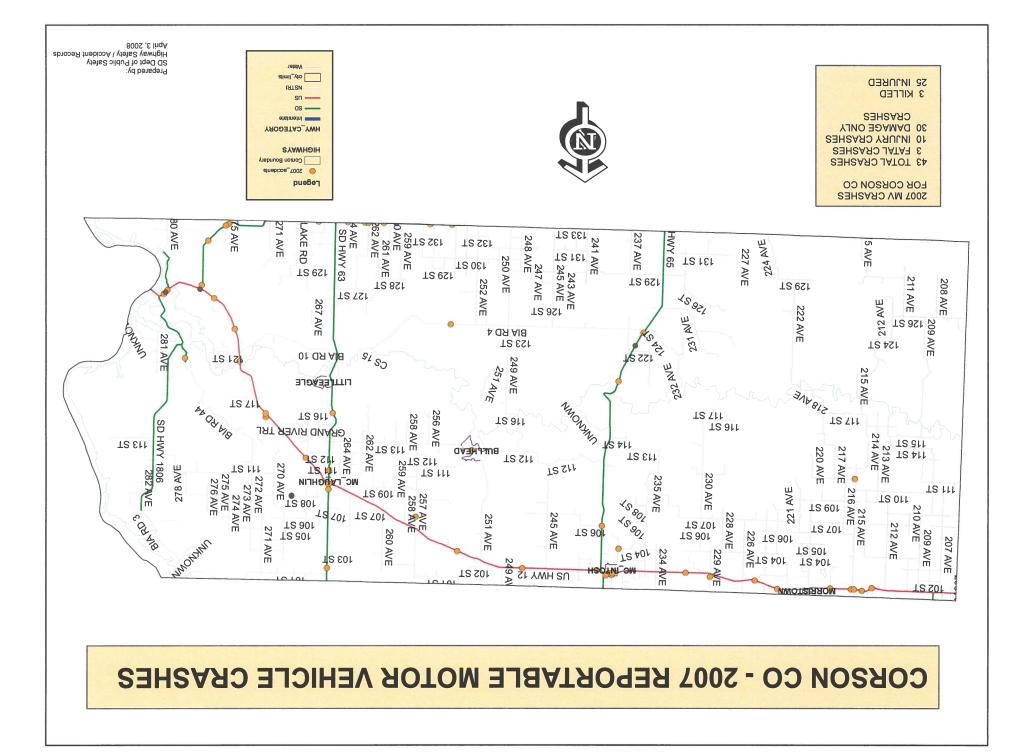


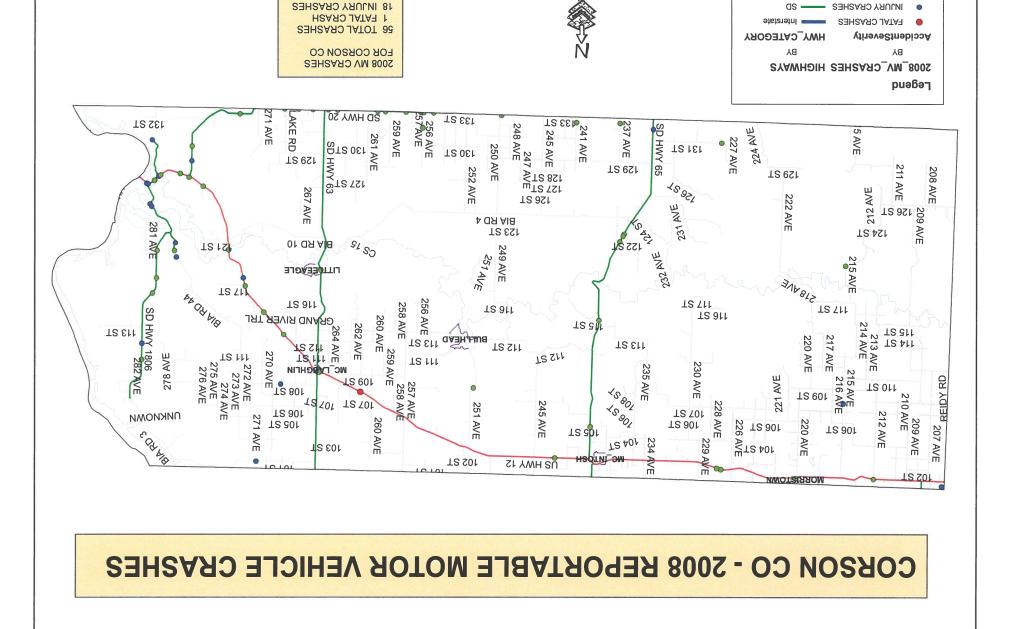






CORSON CO - 2006 REPORTABLE MOTOR VEHICLE CRASHES





CRASHES

37 DAMAGE ONLY

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Corson Boundary

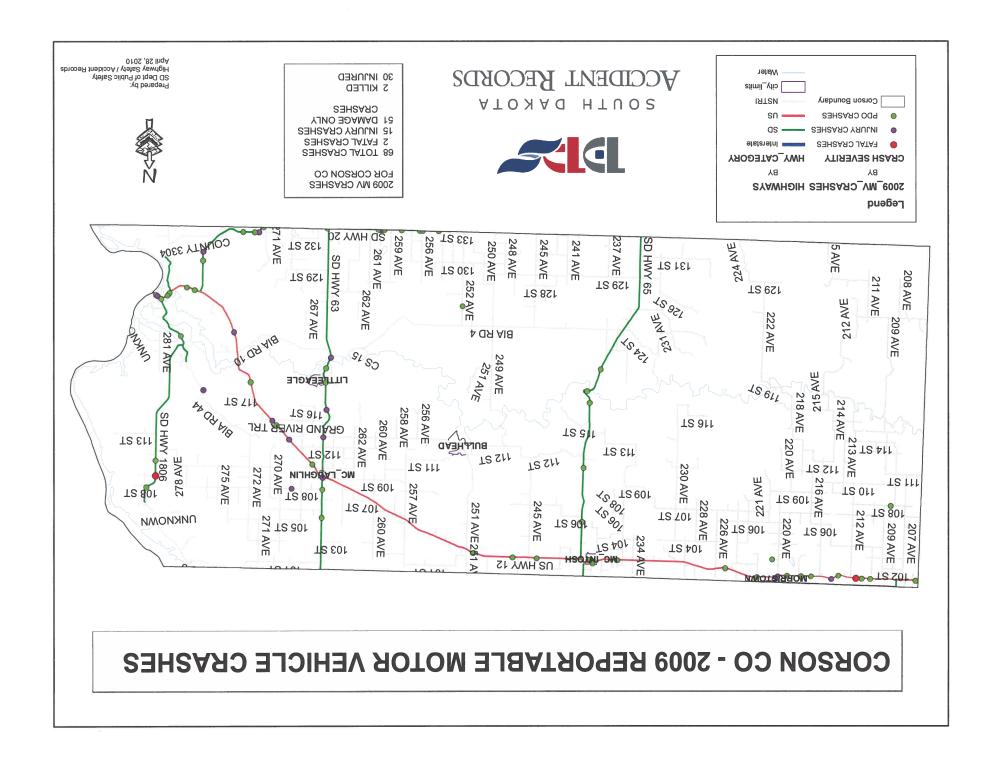
PDO CRASHES

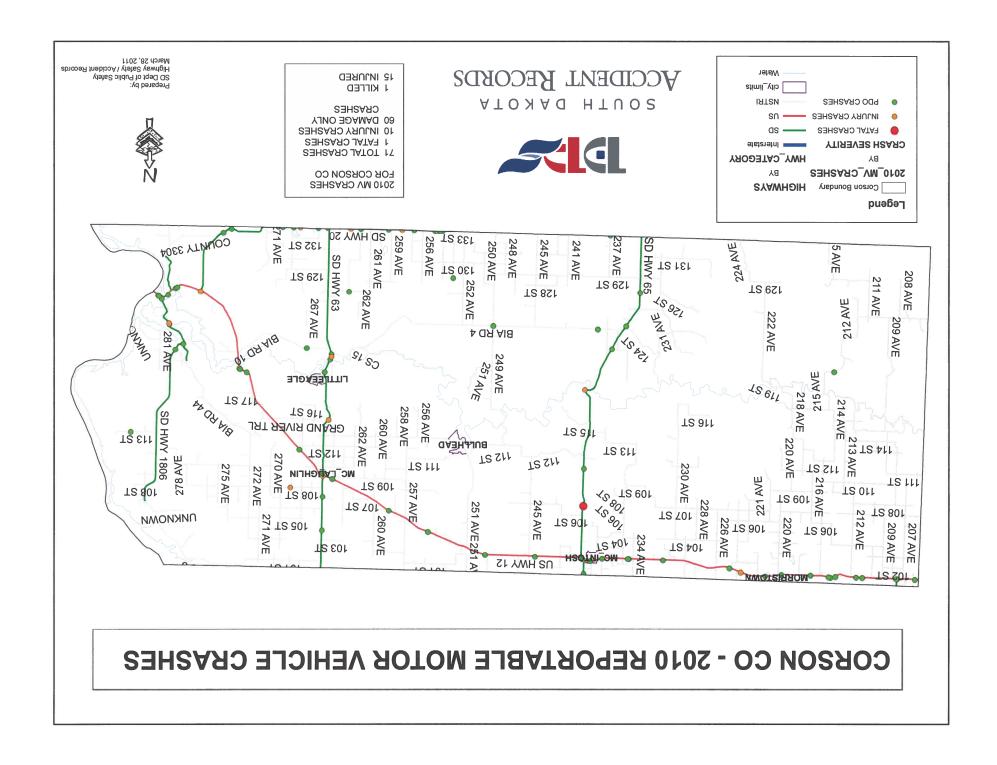
city_limits

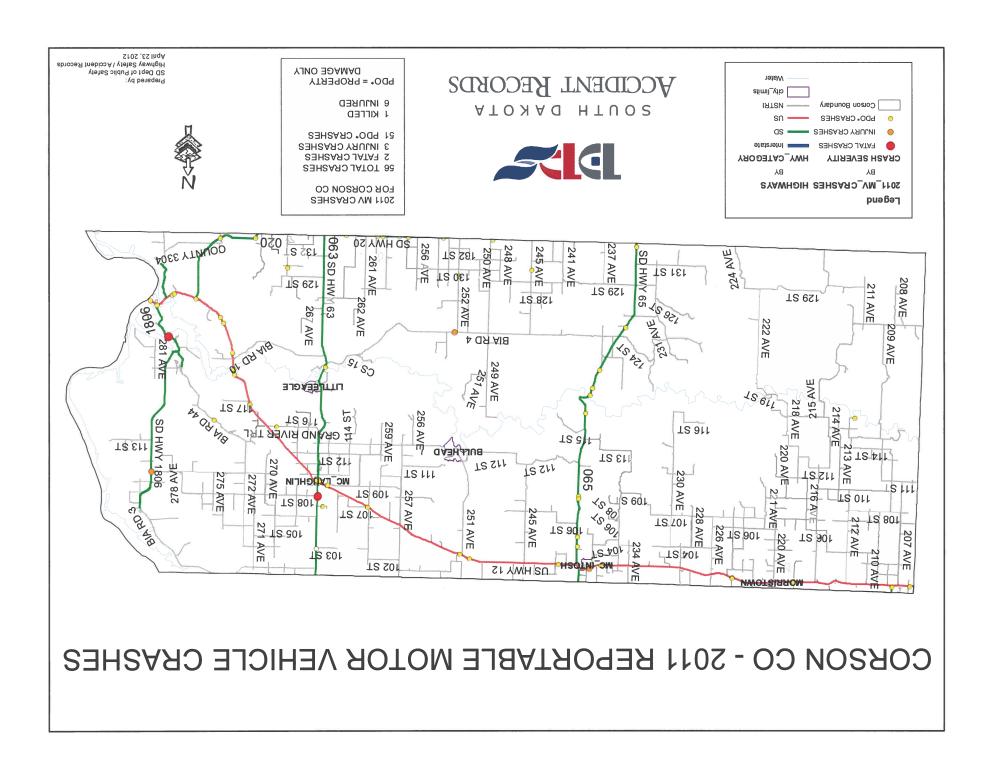
March 24, 2009

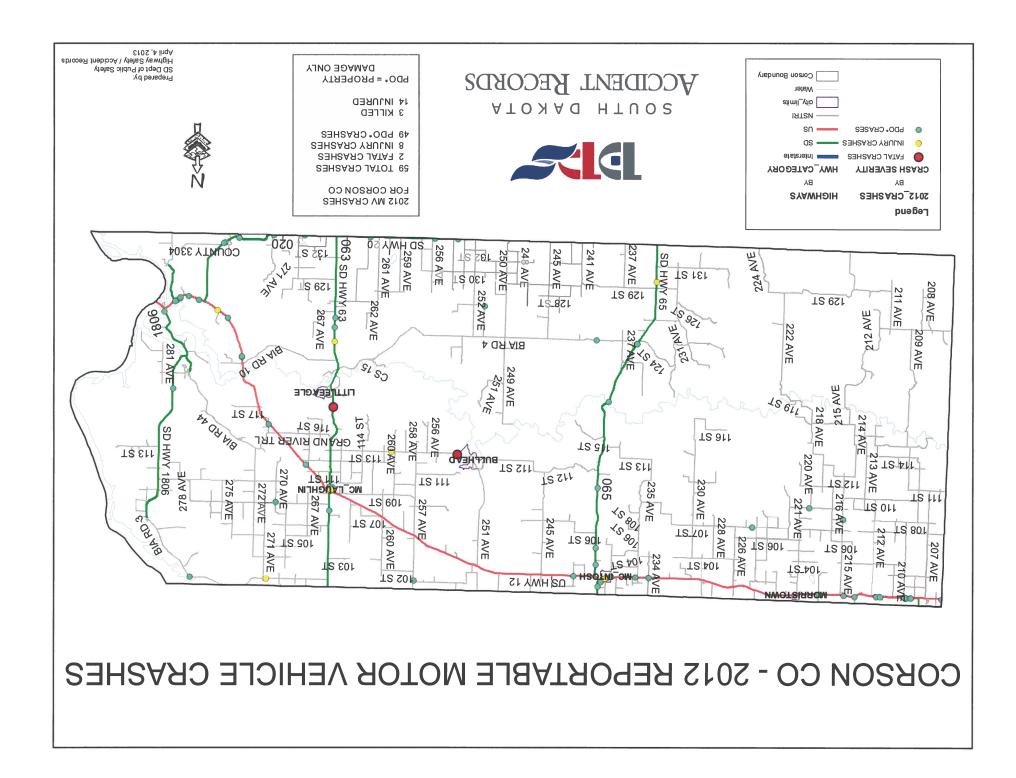
Highway Safety / Accident Records

SD Dept of Public Safety

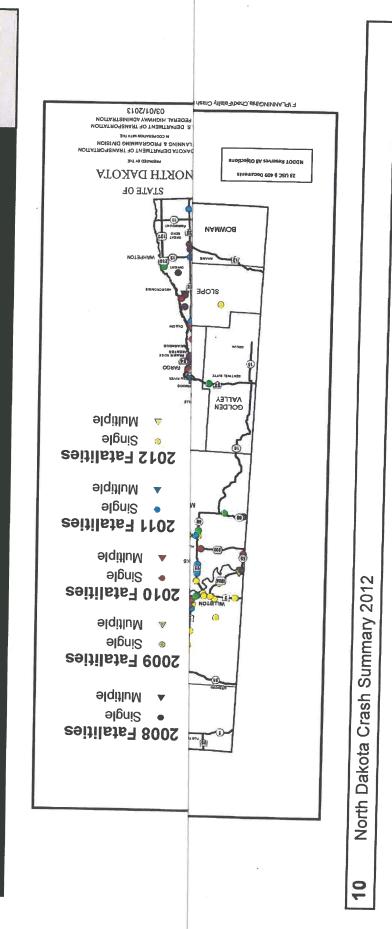








ND 2012 FAST FACTS



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North Dakota Crash Summary 2012 27